

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: P648019

Luminaire Tested: **GALN-SA6A-835-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648019  
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-SA6A-835-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 615mA 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: 15289.7 lumens  
Efficiency: N/A  
Efficacy: 84.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

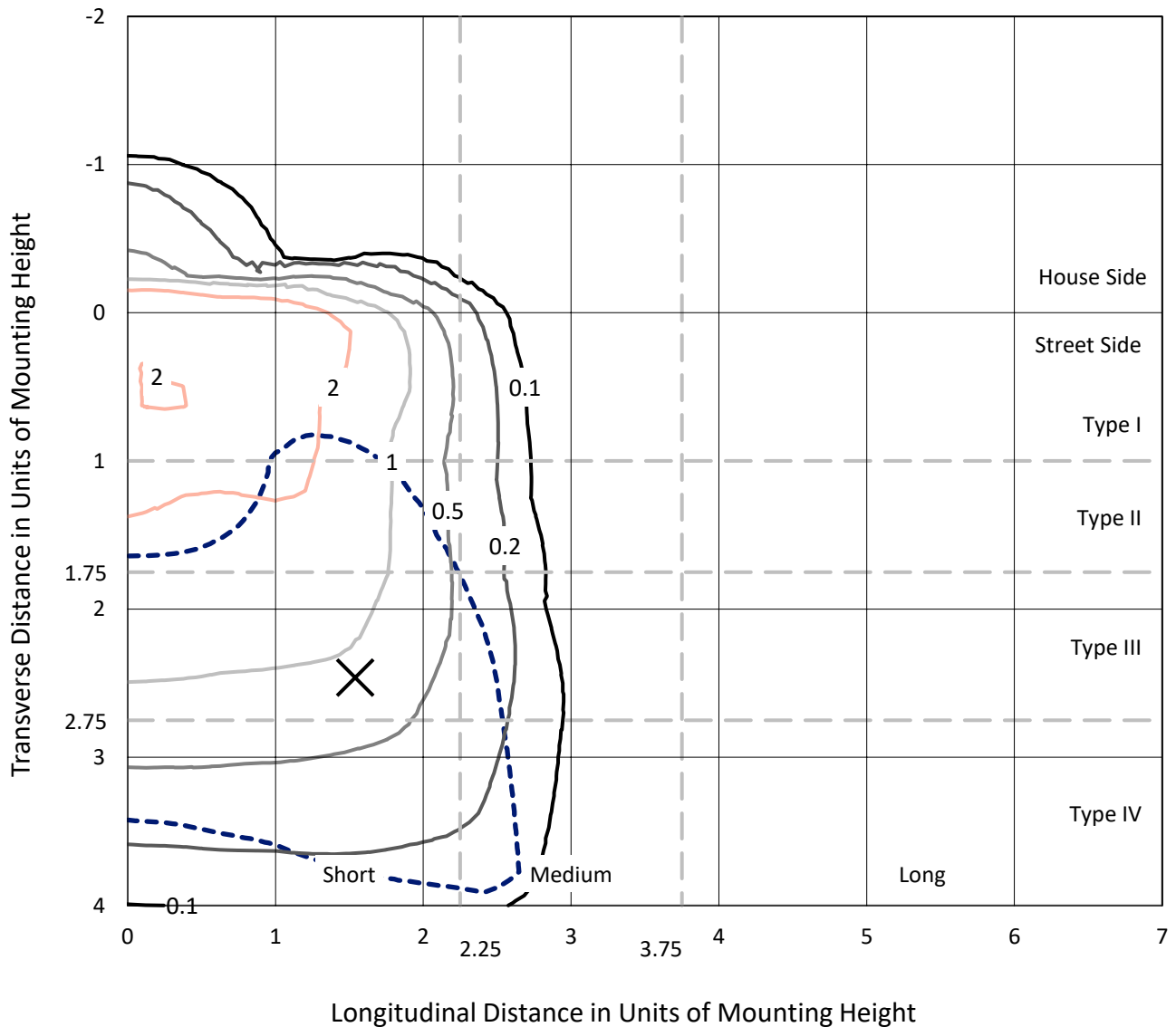
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

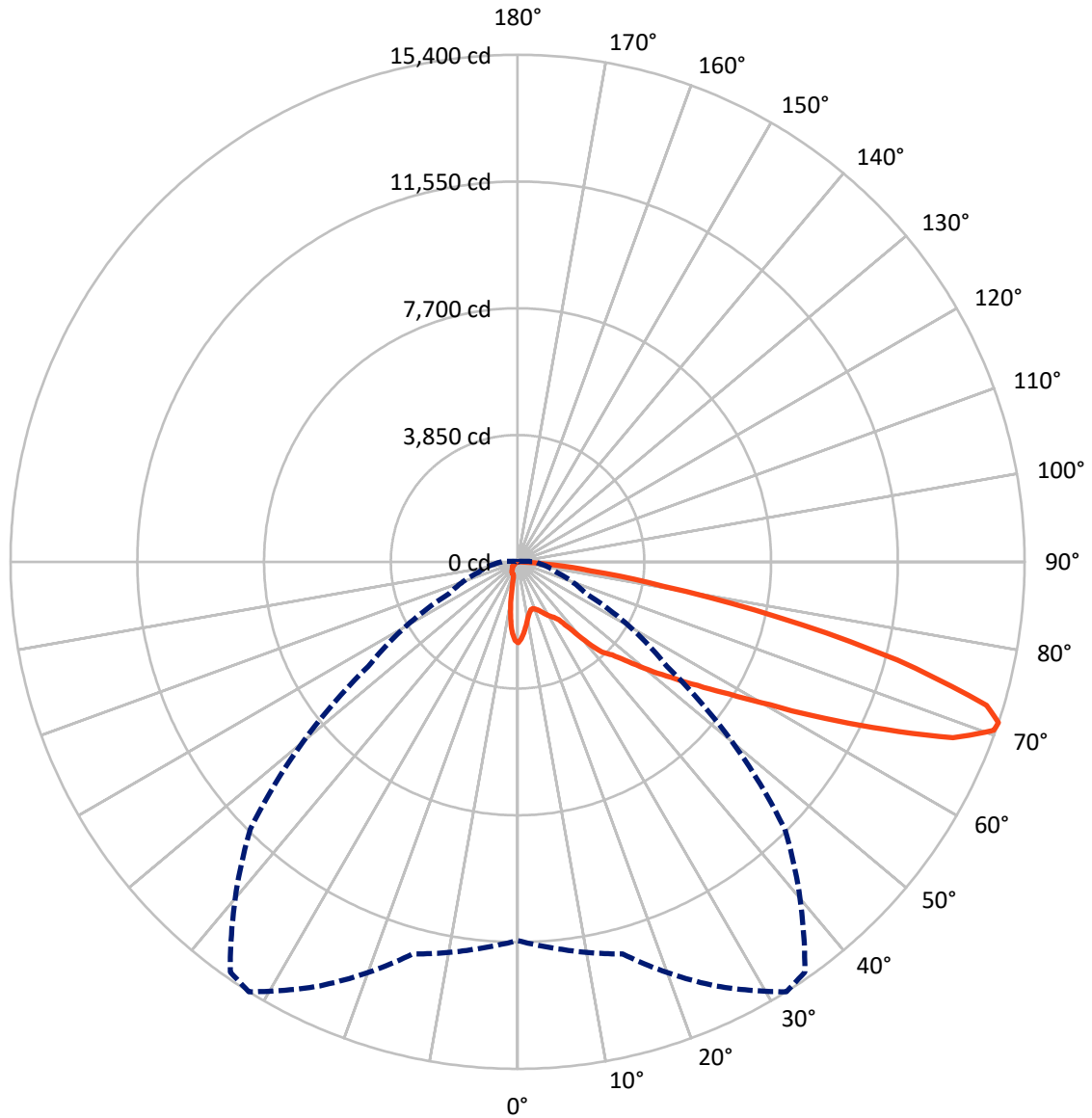
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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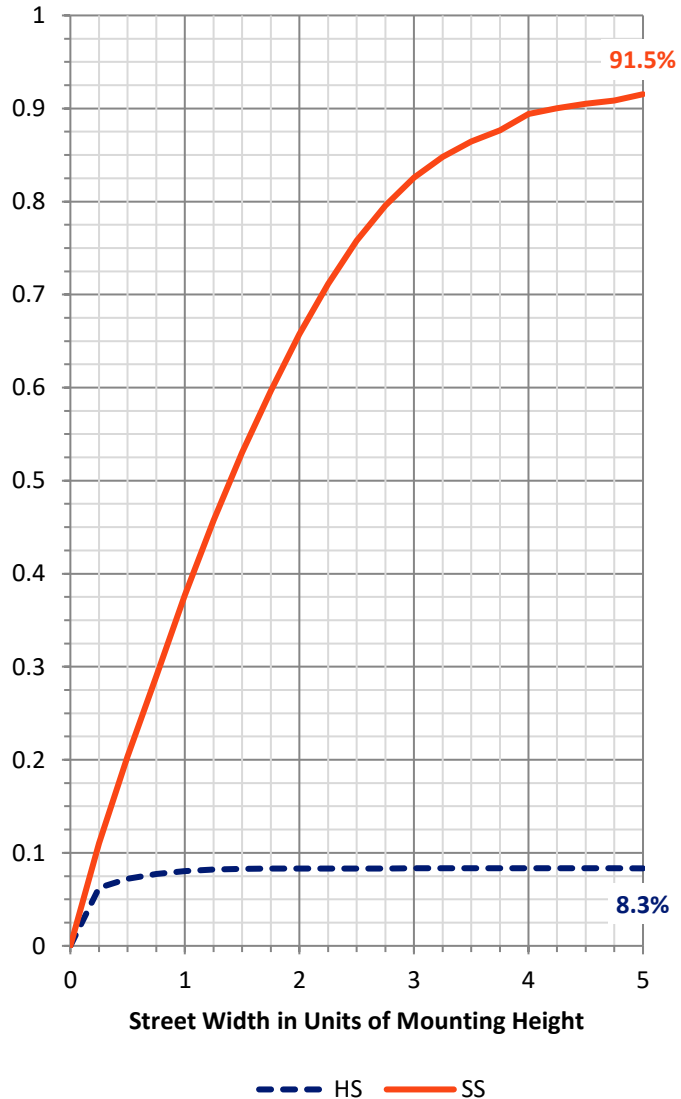
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1280.7	0.0	1280.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	14009.0	0.0	14009.0
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	15289.7	0.0	15289.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.9	1.3
10°-20°	433.9	2.8
20°-30°	675.0	4.4
30°-40°	1124.6	7.4
40°-50°	2092.0	13.7
50°-60°	3358.8	22.0
60°-70°	4517.7	29.5
70°-80°	2680.4	17.5
80°-90°	207.2	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°	15289.7	100.0
0°-180°	15289.7	100.0

**Coefficient of Utilization**

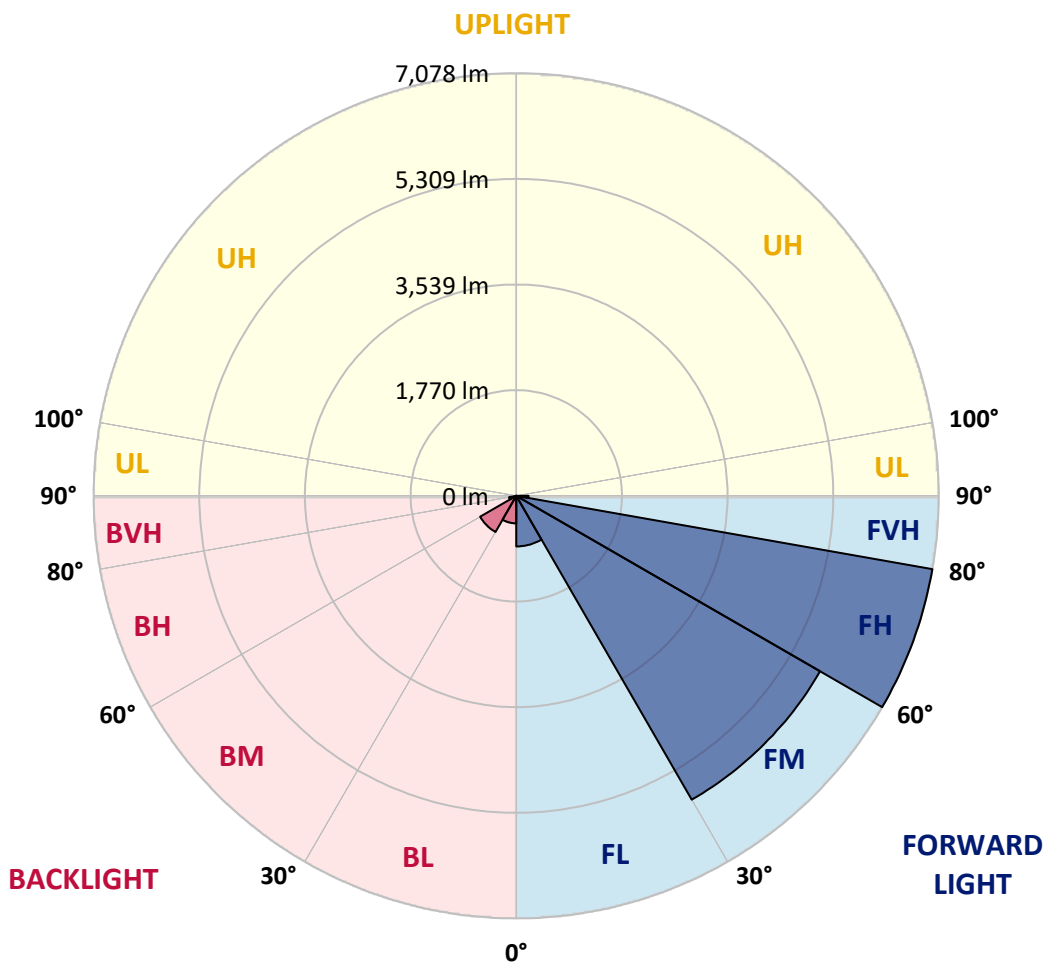


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	847.5	5.5			
FM (30°-60°)	5876.8	38.4			
FH (60°-80°)	7078.4	46.3			G3/7500
FVH (80°-90°)	206.4	1.3			G2/225
BL (0°-30°)	461.4	3.0	B1/500		
BM (30°-60°)	698.6	4.6	B1/1000		
BH (60°-80°)	119.8	0.8	B1/500		G1/500
BVH (80°-90°)	0.8	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°	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8
2.5°	2280.4	2303.9	2300.4	2308.6	2328.6	2336.8	2359.0	2383.7	2417.7	2441.2	2456.4
5°	2042.1	2059.8	2062.1	2103.2	2123.2	2145.4	2211.2	2282.8	2362.5	2426.0	2468.2
7.5°	1787.5	1796.9	1815.6	1869.6	1920.1	1942.4	2042.1	2166.6	2292.2	2410.7	2487.0
10°	1577.4	1587.9	1622.0	1679.5	1726.4	1755.8	1894.3	2050.4	2226.5	2402.5	2514.0
12.5°	1457.7	1463.6	1476.4	1528.1	1587.9	1619.6	1768.7	1947.1	2173.6	2406.0	2559.8
15°	1449.5	1447.1	1431.9	1453.0	1507.0	1539.8	1685.4	1876.7	2126.7	2417.7	2613.7
17.5°	1492.9	1487.0	1450.7	1450.7	1495.2	1522.2	1650.2	1839.1	2103.2	2444.8	2690.0
20°	1559.8	1550.4	1490.5	1485.8	1529.3	1557.5	1671.3	1841.5	2107.9	2495.2	2792.1
22.5°	1644.3	1633.7	1543.4	1545.7	1592.6	1620.8	1732.3	1883.7	2137.2	2557.4	2901.2
25°	1754.6	1742.9	1636.1	1631.4	1680.7	1705.3	1822.7	1958.8	2178.3	2634.9	3044.5
27.5°	1901.4	1876.7	1748.8	1741.7	1794.6	1826.2	1931.8	2059.8	2251.0	2741.7	3236.9
30°	2022.2	1995.2	1873.2	1854.4	1910.7	1935.3	2044.5	2195.9	2394.3	2928.3	3503.4
32.5°	2180.7	2140.7	1997.6	1948.3	2008.2	2039.8	2207.7	2449.5	2606.7	3125.4	3820.3
35°	2537.5	2512.8	2338.0	2165.4	2161.9	2201.8	2448.3	2705.3	2825.0	3433.0	4252.2
37.5°	3048.0	3030.4	2845.0	2613.7	2546.9	2528.1	2740.5	2987.0	3173.6	3855.5	4754.5
40°	3640.7	3599.6	3429.5	3233.4	3146.6	3091.4	3085.6	3406.0	3629.0	4429.4	5278.0
42.5°	4065.6	3990.4	3783.8	3769.8	3751.0	3693.5	3526.9	4018.6	4216.9	5046.7	5837.7
45°	4511.6	4397.7	4090.2	4037.4	4030.3	4026.8	4193.5	4744.0	4857.7	5715.7	6412.8
47.5°	4857.7	4767.4	4515.1	4491.6	4521.0	4600.8	5074.9	5513.8	5490.4	6311.9	6895.3
50°	5319.0	5251.0	4970.4	5015.0	5166.5	5296.7	6069.0	6353.0	6010.3	6781.4	7246.2
52.5°	5863.6	5738.0	5477.5	5598.4	5830.8	6047.9	7124.1	7087.7	6375.3	7134.7	7507.9
55°	6335.4	6246.2	6157.0	6282.6	6630.0	6901.1	8077.1	7638.2	6640.5	7418.7	7622.9
57.5°	7133.5	7112.4	7020.8	7148.7	7570.1	7851.8	8930.3	8065.4	6810.8	7566.6	7487.9
60°	8314.2	8280.1	8110.0	8273.1	8822.4	9264.8	9716.7	8449.2	6849.4	7509.0	7099.5
62.5°	9734.3	9618.1	9472.6	9713.2	10466.7	10661.5	10457.3	8676.8	6705.1	7051.3	6162.9
65°	11060.6	10940.9	10944.4	11451.4	12271.8	12404.4	11321.1	8642.8	6282.6	5904.7	4545.5
67.5°	12075.7	12055.9	12199.0	13188.4	14261.1	14169.6	12093.4	8133.4	5030.3	3827.3	2415.4
70°	12127.4	12166.2	12576.9	14247.0	15336.2	15190.7	12027.7	6611.2	3136.0	1760.5	951.8
71°	11503.1	11763.6	12331.6	14214.2	15399.6	15210.6	11473.7	5537.3	2300.4	1227.7	686.6
72.5°	9802.4	9939.7	11167.4	13377.3	14898.4	14494.7	10068.8	3881.3	1473.0	751.1	394.3
75°	5398.9	5736.8	7478.5	10494.9	11916.2	11561.7	6561.9	1843.8	734.7	410.8	163.2
77.5°	2570.3	2504.6	3648.9	6241.5	8079.5	8060.7	3306.2	819.2	428.4	278.1	82.1
80°	734.7	826.2	1396.6	2967.0	4485.7	4535.0	1269.9	395.5	296.9	217.1	42.3
82.5°	221.8	226.5	512.9	1312.2	2231.2	2103.2	476.5	201.9	213.6	172.5	24.7
85°	38.8	48.2	151.4	462.4	850.9	645.5	119.7	96.2	140.9	113.8	14.1
87.5°	2.3	3.5	50.5	52.9	75.1	43.5	21.1	14.1	30.5	30.5	8.2
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°	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8	2458.8
2.5°	2467.0	2474.0	2469.3	2458.8	2441.2	2420.1	2391.9	2368.4	2348.5	2338.0	2350.8
5°	2482.3	2491.7	2468.2	2415.4	2335.6	2248.7	2150.1	2073.9	2014.0	1995.2	1988.2
7.5°	2505.8	2511.6	2448.3	2330.9	2161.9	1956.5	1776.9	1625.5	1508.1	1473.0	1421.3
10°	2536.3	2532.8	2413.0	2194.7	1897.8	1589.1	1311.0	1104.4	948.3	892.0	887.3
12.5°	2583.2	2564.4	2368.4	2009.3	1583.2	1179.5	835.6	653.7	555.1	522.3	515.2
15°	2641.9	2597.3	2298.0	1792.2	1212.4	761.7	515.2	460.1	447.2	444.8	442.5
17.5°	2711.1	2640.7	2205.3	1525.8	852.1	494.1	430.7	429.6	430.7	428.4	427.2
20°	2805.0	2686.5	2095.0	1210.0	563.4	416.6	410.8	410.8	411.9	410.8	410.8
22.5°	2904.8	2740.5	1958.8	923.7	424.9	395.5	394.3	396.7	399.0	397.8	397.8
25°	3028.0	2810.9	1779.3	632.6	380.3	378.0	379.1	383.7	388.4	389.6	388.4
27.5°	3206.5	2897.7	1586.7	435.4	348.6	350.9	362.7	374.4	381.5	382.6	382.6
30°	3407.1	2994.0	1335.6	353.3	322.8	322.8	336.8	359.2	374.4	376.8	378.0
32.5°	3665.3	3105.5	1057.4	318.1	298.1	295.7	308.7	335.7	363.9	372.1	372.1
35°	3984.5	3236.9	786.4	295.7	280.5	274.6	281.6	304.0	340.4	363.9	366.2
37.5°	4359.0	3361.3	575.1	275.8	264.1	255.9	260.6	278.1	307.5	342.7	352.1
40°	4705.2	3471.7	429.6	259.4	247.7	241.8	245.3	253.5	278.1	311.0	316.9
42.5°	5083.1	3557.3	341.5	241.8	231.2	228.9	228.9	232.4	248.8	267.6	268.8
45°	5459.9	3587.9	286.3	220.6	213.6	216.0	214.8	212.4	219.5	217.1	217.1
47.5°	5728.6	3551.5	237.1	200.7	200.7	204.2	198.3	190.1	186.6	172.5	173.7
50°	5912.9	3418.9	194.8	177.2	186.6	191.3	179.5	166.6	153.8	138.5	135.0
52.5°	5989.2	3183.0	159.7	146.7	165.4	171.3	157.3	142.0	122.1	109.2	105.6
55°	5939.9	2891.9	132.6	119.7	139.7	146.7	132.6	115.0	92.7	78.6	76.3
57.5°	5722.8	2544.5	112.7	95.1	111.5	116.2	106.8	88.0	65.7	51.7	51.7
60°	5347.2	2185.4	91.5	75.1	83.3	90.4	81.0	63.3	44.6	31.7	29.4
62.5°	4585.5	1774.6	73.9	58.6	58.6	64.5	56.3	45.8	28.2	16.4	15.3
65°	3310.9	1217.1	58.6	43.5	42.3	42.3	35.2	30.5	16.4	7.0	4.7
67.5°	1799.3	686.6	47.0	32.9	29.4	28.2	22.3	17.6	7.0	1.2	0.0
70°	707.8	264.1	36.4	22.3	18.8	17.6	11.7	8.2	4.7	0.0	0.0
71°	480.1	181.9	31.7	18.8	15.3	12.9	9.4	7.0	3.5	0.0	0.0
72.5°	274.6	112.7	24.7	14.1	11.7	9.4	7.0	4.7	3.5	0.0	0.0
75°	119.7	57.5	15.3	10.6	8.2	5.9	4.7	3.5	1.2	0.0	0.0
77.5°	61.0	31.7	10.6	8.2	4.7	3.5	2.3	1.2	0.0	0.0	0.0
80°	34.1	16.4	7.0	4.7	3.5	2.3	1.2	1.2	0.0	0.0	0.0
82.5°	18.8	9.4	3.5	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.7	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.3	0.0	0.0	0.0	0.0	1.2	1.2	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)