

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: P382889

Luminaire Tested: **GLEON-SA2C-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382889  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA2C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12809.7 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

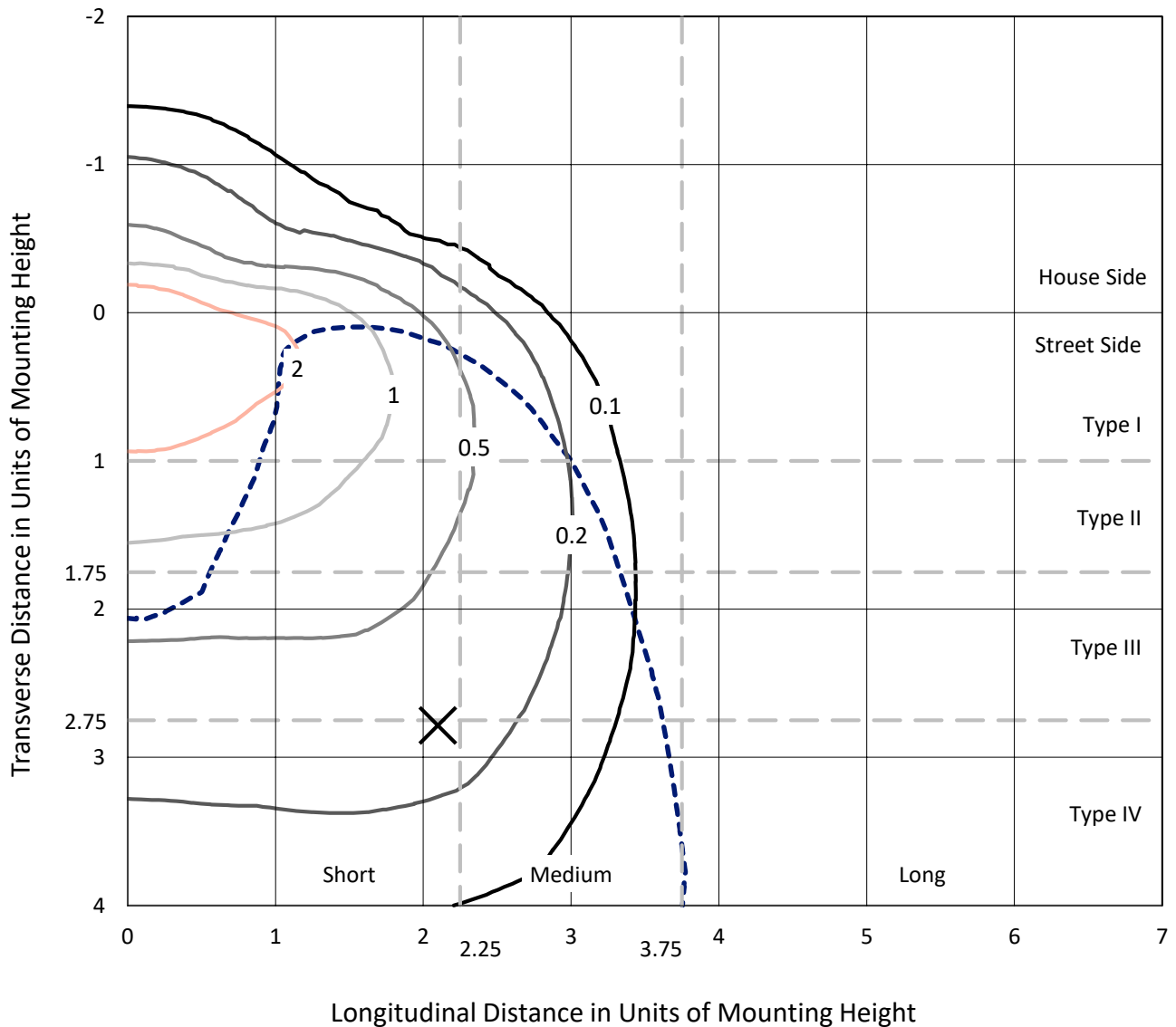
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

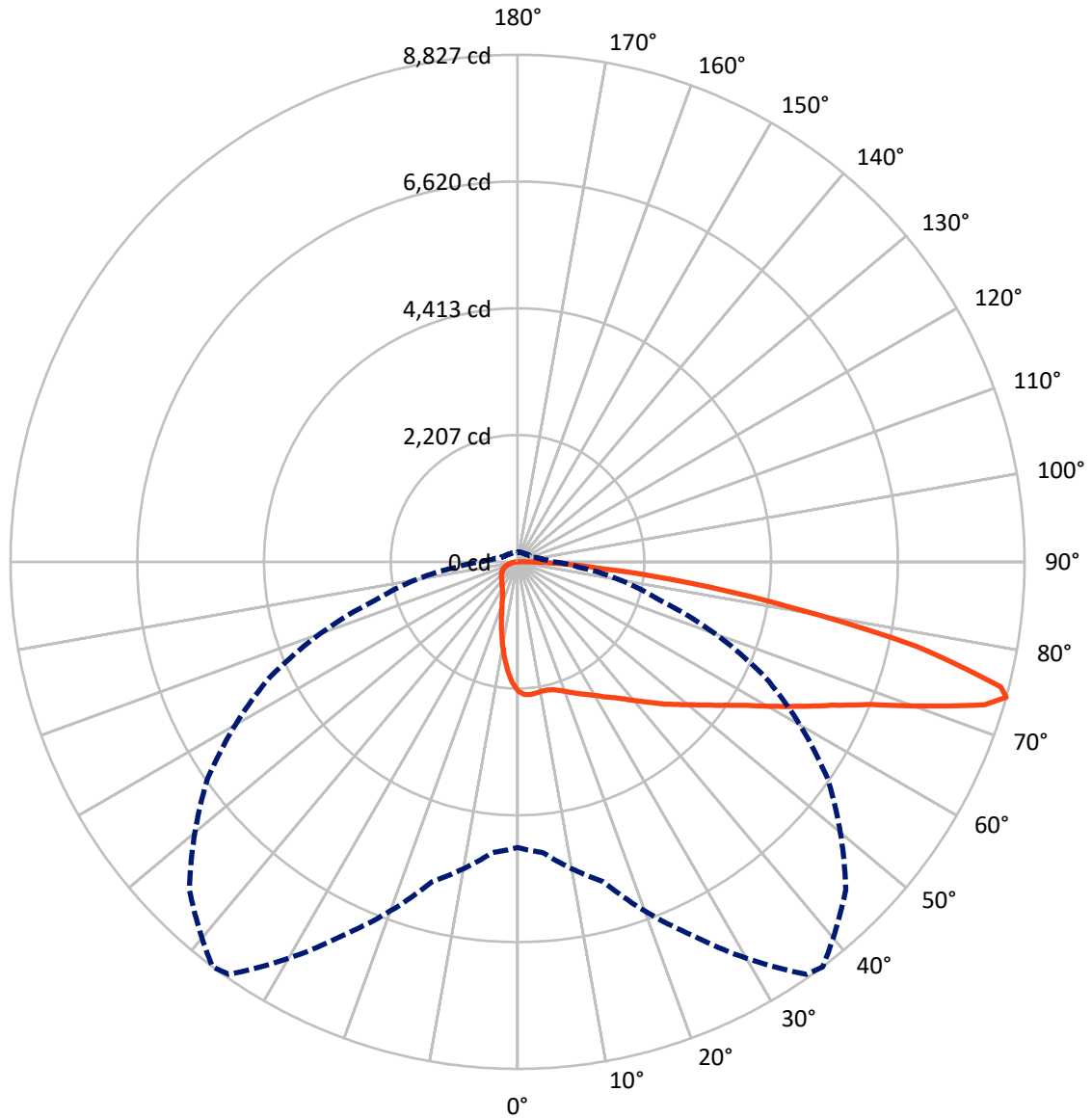
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical



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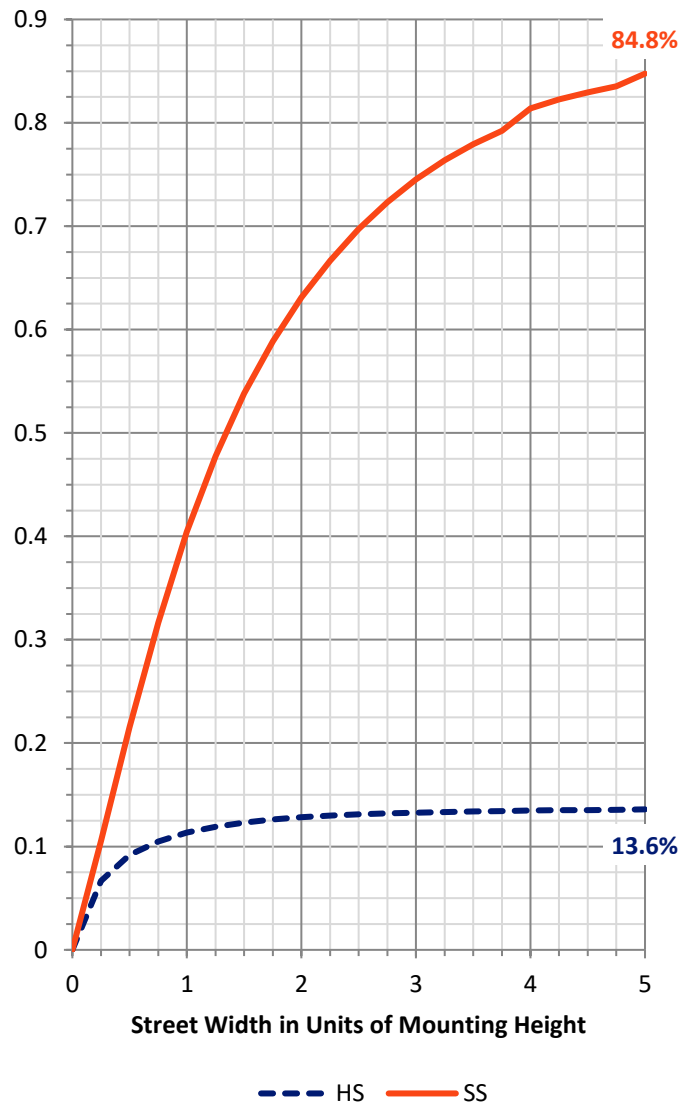
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1762.5	0.0	1762.5
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	11047.2	0.0	11047.2
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	12809.7	0.0	12809.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.8	1.6
10°-20°	509.5	4.0
20°-30°	785.0	6.1
30°-40°	1141.5	8.9
40°-50°	1680.1	13.1
50°-60°	2359.4	18.4
60°-70°	2986.2	23.3
70°-80°	2629.5	20.5
80°-90°	519.9	4.1
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°	12809.7	100.0
0°-180°	12809.7	100.0

**Coefficient of Utilization**



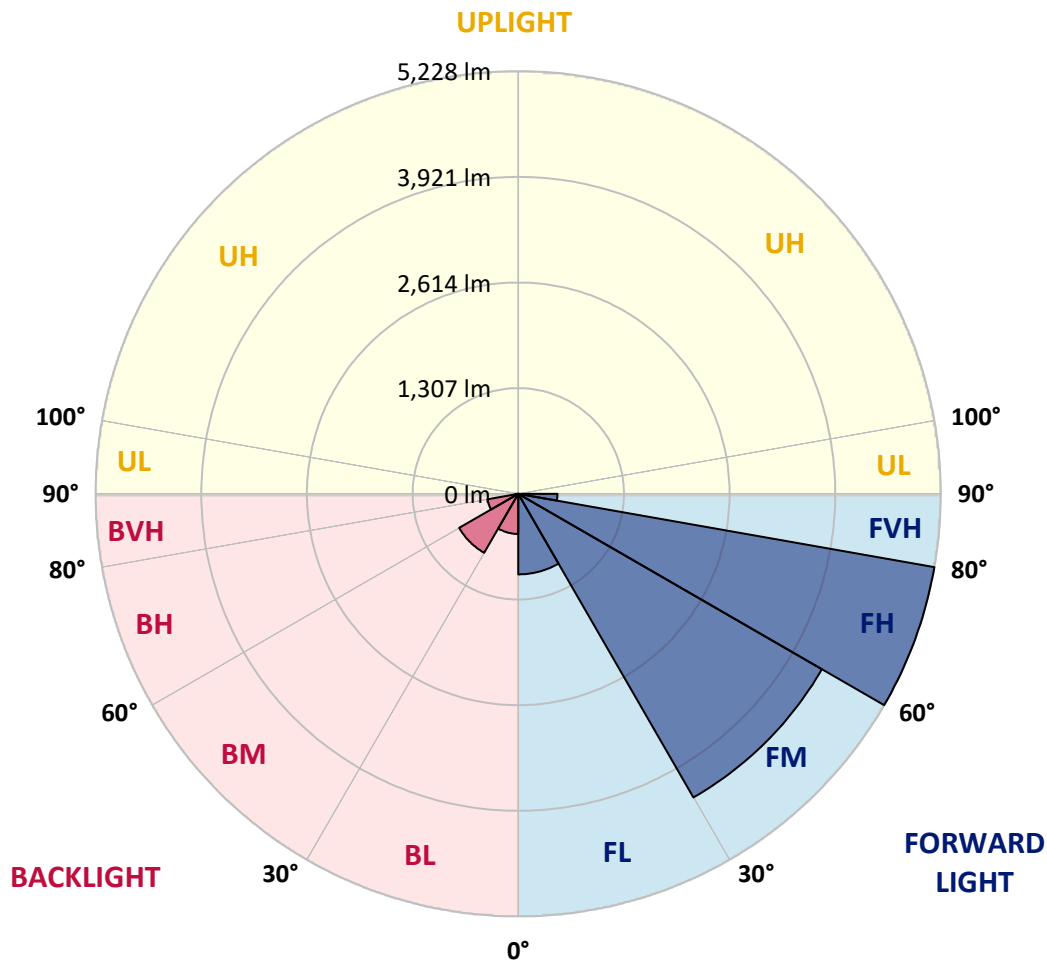
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	996.7	7.8			
FM (30°-60°)	4337.5	33.9			
FH (60°-80°)	5228.3	40.8			G3/7500
FVH (80°-90°)	484.7	3.8			G3/500
BL (0°-30°)	496.5	3.9	B1/500		
BM (30°-60°)	843.4	6.6	B1/1000		
BH (60°-80°)	387.4	3.0	B1/500		G1/500
BVH (80°-90°)	35.2	0.3			G1/100
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°	35°	37°	45°	55°	65°	75°	85°
0°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2334.2	2334.6	2334.2	2330.5	2322.0	2314.8	2308.9	2300.4	2281.4	2266.9	2245.3
5°	2356.3	2353.6	2351.8	2345.0	2331.5	2323.4	2312.1	2295.8	2264.7	2235.8	2200.6
7.5°	2345.9	2342.7	2338.7	2330.5	2315.3	2308.5	2292.6	2271.5	2234.0	2196.1	2145.5
10°	2313.9	2312.9	2311.2	2309.4	2296.3	2290.9	2276.4	2253.9	2216.9	2170.9	2111.7
12.5°	2278.2	2280.5	2287.7	2297.2	2291.3	2288.6	2279.6	2264.2	2226.3	2176.7	2105.4
15°	2255.6	2262.0	2281.4	2306.2	2311.2	2310.2	2308.0	2298.1	2257.9	2202.8	2119.8
17.5°	2248.0	2258.4	2295.3	2336.4	2350.9	2354.0	2355.0	2337.8	2293.1	2234.9	2134.7
20°	2262.0	2275.0	2329.2	2385.6	2408.6	2410.5	2406.4	2376.6	2326.5	2262.4	2142.8
22.5°	2304.4	2316.1	2383.8	2447.5	2473.6	2476.3	2464.1	2419.0	2361.7	2295.0	2154.1
25°	2386.1	2400.5	2468.2	2531.9	2545.4	2545.8	2528.2	2472.2	2407.8	2340.5	2178.5
27.5°	2492.5	2507.0	2567.9	2630.2	2623.0	2618.9	2595.0	2539.0	2467.8	2403.2	2221.8
30°	2611.2	2627.1	2684.8	2729.0	2711.8	2703.7	2684.3	2612.2	2551.2	2488.9	2288.2
32.5°	2734.0	2748.4	2798.9	2829.2	2807.5	2803.9	2774.6	2708.7	2659.9	2619.8	2395.6
35°	2859.9	2870.2	2919.8	2937.0	2908.1	2907.3	2899.1	2838.6	2808.0	2826.9	2551.7
37.5°	2988.5	2991.2	3033.6	3034.5	3025.9	3029.5	3038.1	3000.1	3008.8	3067.9	2754.7
40°	3103.1	3110.3	3141.0	3150.4	3165.3	3178.0	3220.8	3196.0	3262.4	3367.0	3007.4
42.5°	3187.9	3201.9	3251.1	3275.4	3323.7	3343.6	3404.1	3427.1	3560.6	3717.6	3307.9
45°	3259.7	3281.3	3360.3	3410.4	3492.0	3526.7	3613.4	3690.6	3897.7	4098.0	3624.2
47.5°	3337.3	3364.7	3463.6	3559.3	3670.3	3709.5	3866.9	3982.5	4257.3	4480.7	3922.5
50°	3451.4	3472.6	3569.2	3719.5	3858.0	3908.5	4126.5	4292.0	4622.8	4845.3	4181.1
52.5°	3610.7	3602.6	3684.3	3895.0	4080.8	4143.2	4403.5	4621.4	4993.3	5175.1	4399.4
55°	3770.9	3757.3	3814.7	4078.6	4340.7	4406.2	4708.5	4952.2	5345.7	5472.0	4566.8
57.5°	3949.1	3923.4	3971.7	4285.7	4636.8	4714.8	5050.1	5303.7	5692.2	5712.1	4673.3
60°	4132.7	4098.0	4152.2	4542.5	5012.7	5104.7	5449.9	5646.6	6018.9	5904.2	4707.6
62.5°	4293.4	4269.0	4352.5	4829.0	5436.3	5537.4	5842.5	6011.2	6341.0	5984.2	4584.0
65°	4433.7	4437.8	4582.2	5151.2	5908.8	6016.6	6292.8	6460.7	6594.6	5936.8	4294.7
67.5°	4601.1	4624.1	4870.5	5575.3	6503.5	6621.7	6947.9	6950.6	6736.3	5658.8	3725.3
70°	4845.3	4892.6	5267.2	6163.7	7349.1	7511.5	7763.3	7238.5	6537.3	4905.3	2931.1
72.5°	5061.8	5150.2	5689.1	6836.9	8379.6	8502.9	8240.3	7072.5	5705.7	3676.2	1826.1
74°	4973.8	5083.5	5765.7	7168.6	8767.7	8826.9	8079.1	6587.9	4757.2	2545.8	1061.3
75°	4784.3	4903.5	5653.8	7165.5	8718.5	8685.6	7690.2	6034.2	3918.0	1736.3	706.2
77.5°	3861.1	3987.0	4764.0	6141.1	7148.7	7117.6	5907.4	4047.9	1716.0	569.5	358.7
80°	2244.8	2341.0	2957.3	3899.9	4820.4	4876.8	3885.0	2003.0	675.0	319.9	243.2
82.5°	997.2	1063.5	1428.5	1990.8	2909.0	2981.7	2034.6	1049.6	417.0	194.5	146.2
85°	654.3	703.4	867.3	948.0	1385.2	1434.9	995.8	817.2	275.3	106.9	107.4
87.5°	470.6	518.0	644.4	562.7	635.8	602.0	541.9	756.2	110.6	60.9	36.1
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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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0	2257.0
2.5°	2235.8	2228.6	2212.3	2181.7	2164.5	2150.1	2126.2	2112.2	2105.9	2105.4	2108.1
5°	2180.3	2163.6	2121.7	2070.2	2029.2	1991.7	1945.3	1917.2	1897.4	1885.6	1888.8
7.5°	2115.8	2089.6	2023.7	1941.6	1875.8	1803.1	1731.4	1688.5	1655.1	1630.3	1634.8
10°	2071.6	2035.4	1939.4	1821.2	1711.5	1605.9	1507.1	1448.0	1401.0	1365.0	1367.7
12.5°	2056.7	2008.0	1874.8	1716.9	1563.0	1418.7	1289.6	1198.9	1150.6	1109.6	1112.7
15°	2058.9	1993.5	1820.7	1623.0	1429.5	1247.6	1091.0	985.0	919.6	891.2	891.6
17.5°	2060.8	1976.8	1763.8	1522.4	1297.3	1087.9	917.8	810.4	748.6	722.4	722.9
20°	2054.9	1949.7	1693.5	1406.9	1159.2	941.2	776.5	685.4	638.5	618.2	618.2
22.5°	2047.2	1917.7	1614.0	1290.9	1022.9	814.0	675.5	606.0	579.0	565.4	564.9
25°	2050.8	1893.7	1532.8	1171.8	897.5	712.4	608.2	562.2	544.2	535.6	535.2
27.5°	2070.2	1882.5	1457.9	1053.1	787.8	636.2	563.1	530.6	518.9	513.5	513.5
30°	2105.4	1882.5	1379.8	952.0	696.7	579.8	528.4	506.3	498.2	494.6	494.6
32.5°	2166.8	1892.9	1304.4	851.9	624.0	535.6	499.5	484.6	478.3	476.5	476.5
35°	2272.3	1928.1	1230.9	757.2	565.4	499.5	472.0	463.4	458.9	458.4	459.8
37.5°	2420.8	1999.8	1161.9	687.2	523.9	470.2	449.0	442.2	439.5	441.7	443.5
40°	2607.6	2097.3	1099.2	624.0	492.3	446.7	427.8	423.2	421.9	425.1	427.8
42.5°	2833.2	2229.0	1047.7	578.5	467.9	426.8	409.7	404.3	403.0	406.5	410.2
45°	3077.4	2370.7	1011.7	544.6	449.0	411.9	394.0	388.1	385.4	387.2	391.2
47.5°	3299.4	2504.7	997.2	520.7	430.9	399.4	379.9	372.7	368.2	367.3	370.5
50°	3486.6	2604.4	1003.9	506.3	416.5	385.4	366.4	358.3	351.5	347.5	349.7
52.5°	3622.9	2667.2	1010.3	500.0	405.2	370.0	351.5	343.8	334.8	328.0	328.0
55°	3721.7	2681.6	996.3	495.0	396.7	353.3	334.8	327.6	318.6	310.9	310.0
57.5°	3760.5	2641.0	944.4	487.8	390.8	337.5	317.2	311.8	304.2	295.1	294.6
60°	3708.1	2515.6	844.3	472.4	383.1	324.5	299.6	296.0	292.4	283.8	283.4
62.5°	3497.9	2240.4	714.8	441.3	367.8	310.5	283.4	285.1	285.6	279.7	278.8
65°	3116.6	1862.2	588.4	400.7	344.8	293.7	266.7	275.3	280.2	279.3	278.0
67.5°	2562.5	1449.3	498.6	357.8	314.5	270.7	248.6	258.6	262.6	265.8	264.8
70°	1901.9	1022.0	412.4	312.7	278.0	243.7	225.2	230.1	227.4	231.0	232.4
72.5°	1060.4	613.2	336.2	267.5	240.1	212.1	199.0	198.0	192.2	192.2	192.2
74°	636.2	449.8	295.6	239.6	217.1	191.3	180.1	176.0	170.6	171.0	170.6
75°	511.7	386.7	271.2	221.1	200.7	179.1	167.9	162.5	158.4	158.4	157.9
77.5°	323.1	293.7	218.4	176.0	160.6	147.6	139.9	132.7	132.7	132.2	131.7
80°	244.2	233.7	170.1	133.1	123.2	113.3	108.3	105.2	105.2	106.5	106.0
82.5°	167.4	176.0	119.6	93.0	88.0	80.8	79.8	80.3	79.0	77.1	76.7
85°	122.3	132.2	80.8	58.7	53.7	49.2	52.8	54.6	52.4	48.3	46.5
87.5°	46.9	86.6	43.3	24.4	22.5	19.4	22.5	23.5	25.2	19.8	20.3
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)