

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: STREETWORKS

Report Number: P319948

Luminaire Tested: **GAN-SA4A-730-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319948  
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: STREETWORKS  
Catalog Number: GAN-SA4A-730-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA 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: 16267 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

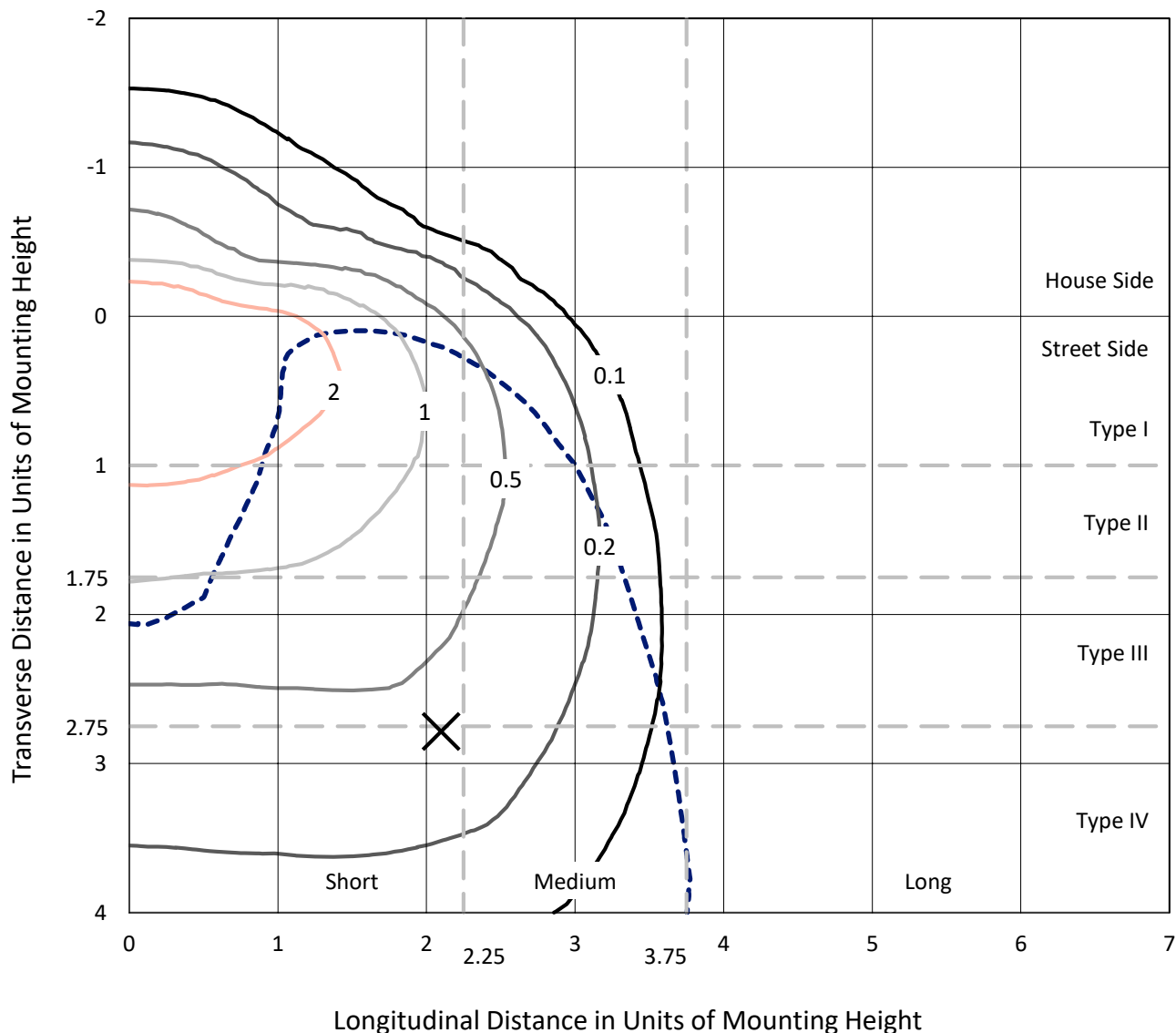
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

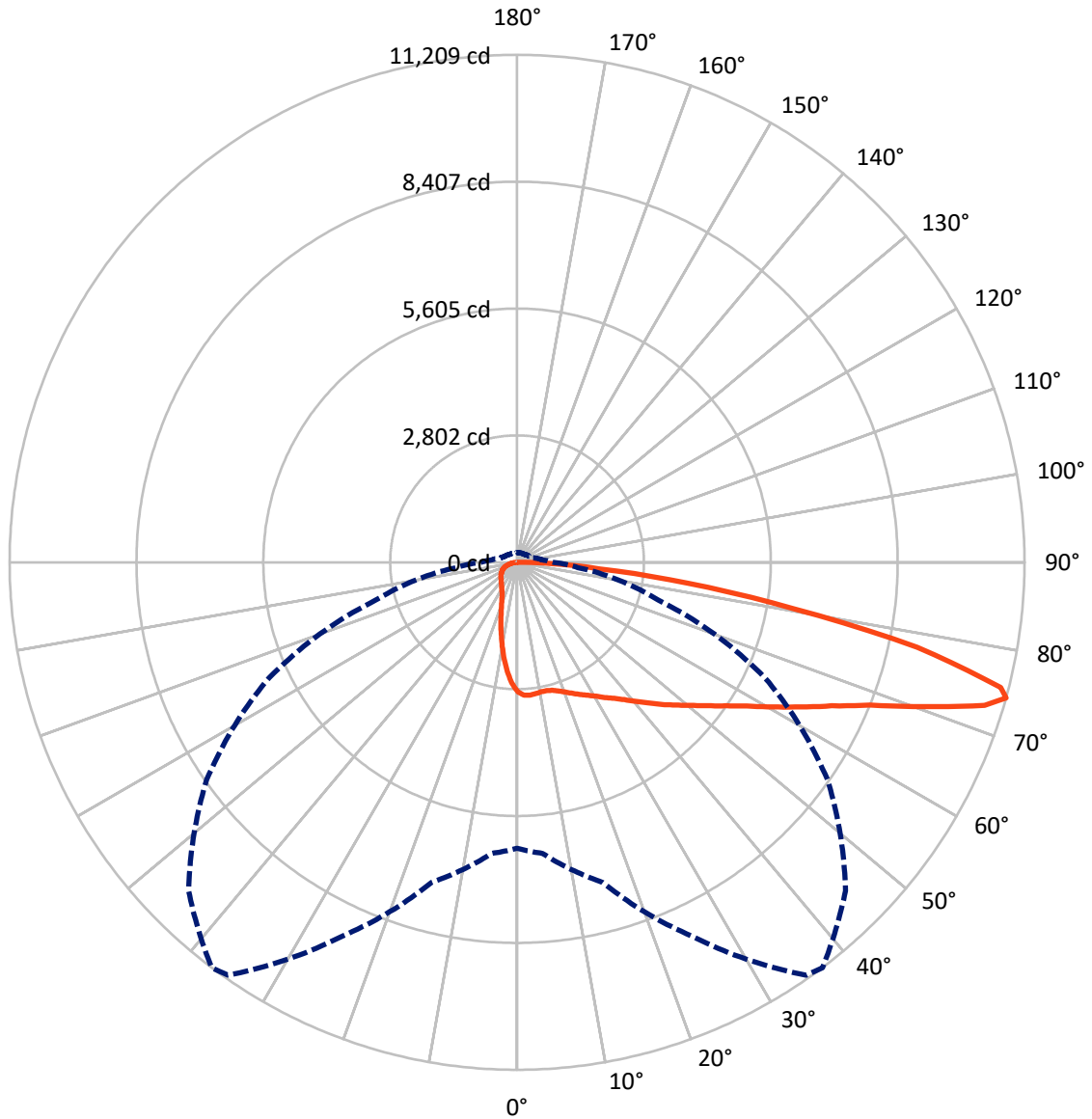
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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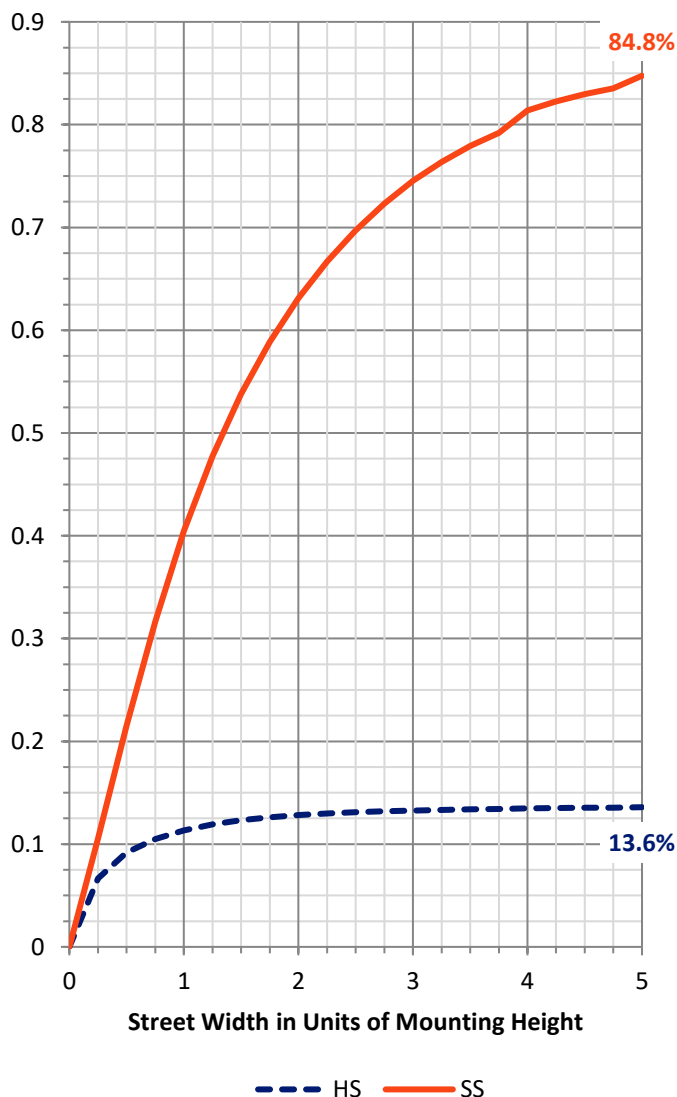
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2238.2	0.0	2238.2
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	14028.8	0.0	14028.8
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	16267.0	0.0	16267.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.4	1.6
10°-20°	647.0	4.0
20°-30°	996.8	6.1
30°-40°	1449.6	8.9
40°-50°	2133.5	13.1
50°-60°	2996.1	18.4
60°-70°	3792.2	23.3
70°-80°	3339.2	20.5
80°-90°	660.2	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°	16267.0	100.0
0°-180°	16267.0	100.0

**Coefficient of Utilization**

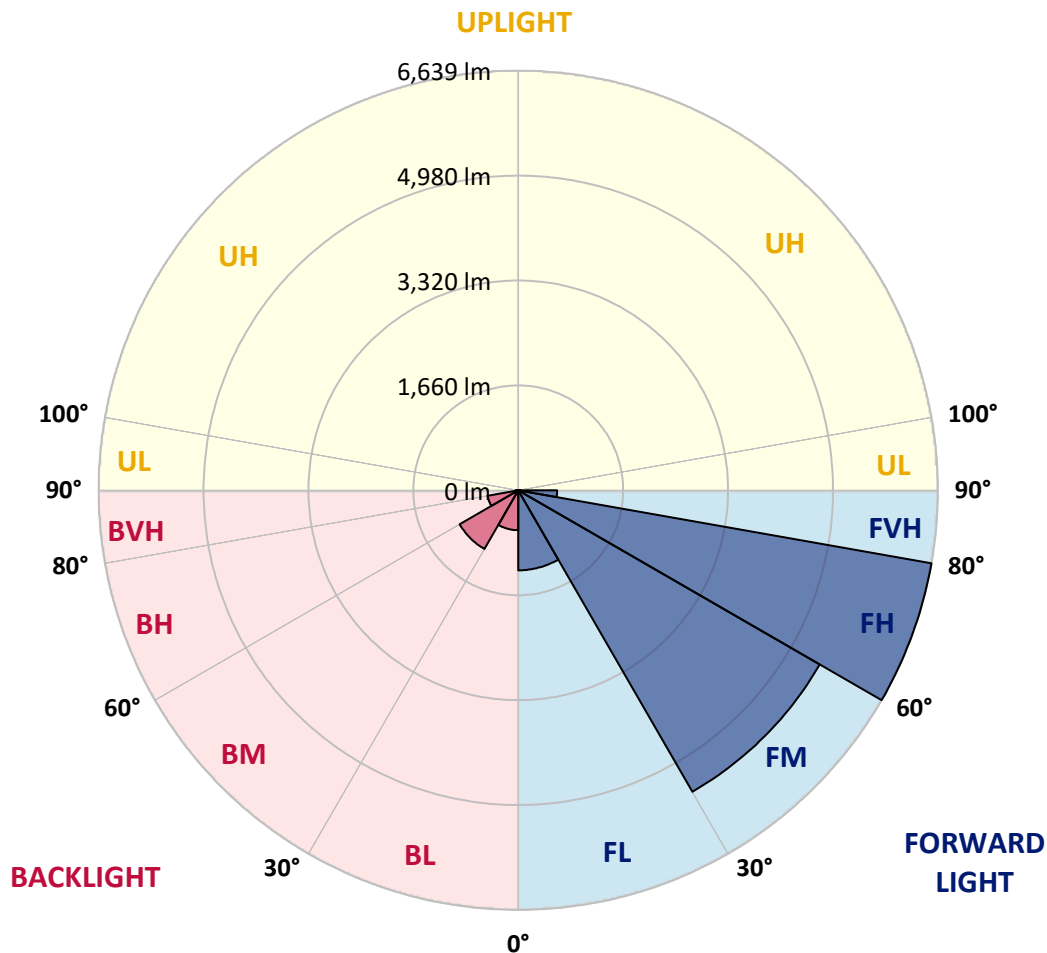


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1265.8	7.8			
FM (30°-60°)	5508.1	33.9			
FH (60°-80°)	6639.4	40.8			G3/7500
FVH (80°-90°)	615.5	3.8			G4/750
BL (0°-30°)	630.5	3.9	B2/1000		
BM (30°-60°)	1071.1	6.6	B2/2500		
BH (60°-80°)	492.0	3.0	B1/500		G1/500
BVH (80°-90°)	44.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2
2.5°	2964.2	2964.7	2964.2	2959.6	2948.7	2939.5	2932.1	2921.2	2897.1	2878.8	2851.3
5°	2992.2	2988.8	2986.5	2977.9	2960.7	2950.4	2936.1	2915.5	2875.9	2839.3	2794.6
7.5°	2979.1	2975.1	2969.9	2959.6	2940.1	2931.5	2911.4	2884.5	2837.0	2788.8	2724.6
10°	2938.4	2937.2	2934.9	2932.7	2916.0	2909.2	2890.8	2862.2	2815.2	2756.7	2681.7
12.5°	2893.1	2896.0	2905.1	2917.2	2909.7	2906.3	2894.8	2875.4	2827.2	2764.2	2673.7
15°	2864.5	2872.5	2897.1	2928.6	2934.9	2933.8	2930.9	2918.3	2867.3	2797.4	2692.0
17.5°	2854.7	2867.9	2914.9	2967.0	2985.4	2989.4	2990.5	2968.8	2912.0	2838.1	2710.9
20°	2872.5	2889.1	2957.9	3029.5	3058.7	3061.0	3055.8	3018.0	2954.4	2873.1	2721.2
22.5°	2926.3	2941.2	3027.2	3108.0	3141.2	3144.7	3129.2	3071.9	2999.1	2914.3	2735.5
25°	3030.1	3048.4	3134.3	3215.1	3232.3	3232.9	3210.6	3139.5	3057.6	2972.2	2766.5
27.5°	3165.3	3183.6	3261.0	3340.1	3330.9	3325.7	3295.4	3224.3	3133.8	3051.8	2821.5
30°	3316.0	3336.0	3409.4	3465.5	3443.8	3433.5	3408.8	3317.1	3239.8	3160.7	2905.7
32.5°	3471.9	3490.2	3554.4	3592.8	3565.3	3560.7	3523.4	3439.8	3377.9	3326.9	3042.1
35°	3631.7	3644.9	3707.9	3729.7	3693.0	3691.9	3681.6	3604.8	3565.8	3589.9	3240.4
37.5°	3795.0	3798.5	3852.3	3853.5	3842.6	3847.2	3858.1	3809.9	3820.8	3895.9	3498.2
40°	3940.6	3949.7	3988.7	4000.7	4019.6	4035.7	4090.1	4058.6	4142.8	4275.8	3819.1
42.5°	4048.3	4066.1	4128.5	4159.5	4220.8	4246.0	4322.8	4352.0	4521.6	4721.0	4200.7
45°	4139.4	4166.9	4267.2	4330.8	4434.5	4478.6	4588.6	4686.6	4949.6	5204.1	4602.4
47.5°	4238.0	4272.9	4398.4	4519.9	4660.8	4710.7	4910.7	5057.4	5406.3	5690.0	4981.2
50°	4382.9	4409.9	4532.5	4723.3	4899.2	4963.4	5240.2	5450.4	5870.5	6153.0	5309.5
52.5°	4585.2	4574.9	4678.6	4946.2	5182.3	5261.4	5592.0	5868.7	6340.9	6571.8	5586.8
55°	4788.6	4771.4	4844.2	5179.4	5512.3	5595.4	5979.3	6288.8	6788.4	6948.9	5799.4
57.5°	5015.0	4982.3	5043.6	5442.4	5888.2	5987.4	6413.1	6735.1	7228.5	7253.7	5934.6
60°	5248.2	5204.1	5272.8	5768.5	6365.5	6482.4	6920.8	7170.6	7643.3	7497.8	5978.2
62.5°	5452.2	5421.2	5527.2	6132.3	6903.6	7031.9	7419.3	7633.6	8052.5	7599.2	5821.2
65°	5630.4	5635.5	5818.9	6541.5	7503.5	7640.5	7991.2	8204.3	8374.5	7539.1	5453.9
67.5°	5843.0	5872.2	6185.0	7080.1	8258.8	8408.9	8823.2	8826.6	8554.4	7186.1	4730.7
70°	6153.0	6213.1	6688.7	7827.3	9332.6	9538.9	9858.6	9192.2	8301.7	6229.2	3722.3
72.5°	6428.0	6540.3	7224.5	8682.2	10641.3	10797.7	10464.3	8981.3	7245.7	4668.3	2319.0
74°	6316.3	6455.5	7321.9	9103.4	11134.1	11209.2	10259.7	8365.9	6041.2	3232.9	1347.7
75°	6075.6	6226.9	7179.8	9099.4	11071.6	11029.8	9765.8	7662.8	4975.4	2204.9	896.8
77.5°	4903.2	5063.1	6049.8	7798.6	9078.2	9038.6	7501.8	5140.4	2179.1	723.1	455.5
80°	2850.7	2972.8	3755.5	4952.5	6121.4	6193.1	4933.6	2543.6	857.2	406.3	308.9
82.5°	1266.3	1350.6	1814.1	2528.1	3694.2	3786.4	2583.7	1332.8	529.5	247.0	185.7
85°	830.9	893.3	1101.3	1203.9	1759.1	1822.2	1264.6	1037.7	349.5	135.8	136.4
87.5°	597.6	657.8	818.3	714.5	807.4	764.4	688.2	960.4	140.4	77.4	45.8
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°	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2	2866.2
2.5°	2839.3	2830.1	2809.5	2770.5	2748.7	2730.4	2700.0	2682.2	2674.2	2673.7	2677.1
5°	2768.8	2747.6	2694.3	2629.0	2576.8	2529.3	2470.2	2434.7	2409.5	2394.6	2398.6
7.5°	2686.8	2653.6	2569.9	2465.7	2382.0	2289.7	2198.6	2144.2	2101.8	2070.3	2076.0
10°	2630.7	2584.8	2462.8	2312.7	2173.4	2039.3	1913.8	1838.8	1779.2	1733.3	1736.8
12.5°	2611.8	2549.9	2380.8	2180.3	1984.9	1801.5	1637.7	1522.5	1461.2	1409.0	1413.0
15°	2614.6	2531.5	2312.1	2061.1	1815.3	1584.4	1385.5	1250.9	1167.8	1131.7	1132.3
17.5°	2616.9	2510.3	2239.9	1933.3	1647.4	1381.5	1165.5	1029.1	950.6	917.4	918.0
20°	2609.5	2476.0	2150.5	1786.6	1472.1	1195.3	986.1	870.4	810.8	785.0	785.0
22.5°	2599.7	2435.3	2049.6	1639.4	1299.0	1033.7	857.8	769.5	735.2	718.0	717.4
25°	2604.3	2404.9	1946.5	1488.1	1139.7	904.8	772.4	714.0	691.0	680.2	679.6
27.5°	2629.0	2390.6	1851.4	1337.4	1000.5	807.9	715.1	673.9	659.0	652.1	652.1
30°	2673.7	2390.6	1752.3	1209.0	884.7	736.3	671.0	642.9	632.6	628.0	628.0
32.5°	2751.6	2403.8	1656.6	1081.8	792.5	680.2	634.3	615.4	607.4	605.1	605.1
35°	2885.7	2448.5	1563.2	961.5	718.0	634.3	599.4	588.5	582.7	582.2	583.9
37.5°	3074.2	2539.6	1475.5	872.7	665.3	597.1	570.1	561.5	558.1	561.0	563.3
40°	3311.4	2663.3	1395.8	792.5	625.2	567.3	543.2	537.5	535.8	539.8	543.2
42.5°	3597.9	2830.7	1330.5	734.6	594.2	542.1	520.3	513.4	511.7	516.3	520.9
45°	3907.9	3010.6	1284.7	691.6	570.1	523.2	500.2	492.8	489.3	491.6	496.8
47.5°	4189.8	3180.8	1266.3	661.3	547.2	507.1	482.5	473.3	467.6	466.4	470.4
50°	4427.6	3307.4	1274.9	642.9	528.9	489.3	465.3	455.0	446.4	441.2	444.1
52.5°	4600.7	3387.0	1283.0	634.9	514.6	469.9	446.4	436.6	425.2	416.6	416.6
55°	4726.2	3405.4	1265.2	628.6	503.7	448.7	425.2	416.0	404.5	394.8	393.7
57.5°	4775.4	3353.8	1199.3	619.4	496.2	428.6	402.8	395.9	386.2	374.7	374.2
60°	4709.0	3194.5	1072.1	599.9	486.5	412.0	380.5	375.9	371.3	360.4	359.8
62.5°	4442.0	2845.0	907.6	560.4	467.0	394.2	359.8	362.1	362.7	355.3	354.1
65°	3957.8	2364.8	747.2	508.8	437.8	373.0	338.6	349.5	355.8	354.7	353.0
67.5°	3254.1	1840.5	633.2	454.4	399.4	343.8	315.7	328.3	333.5	337.5	336.4
70°	2415.2	1297.9	523.7	397.1	353.0	309.4	285.9	292.2	288.8	293.4	295.1
72.5°	1346.6	778.7	426.9	339.8	304.8	269.3	252.7	251.6	244.1	244.1	244.1
74°	807.9	571.3	375.3	304.3	275.6	243.0	228.6	223.5	216.6	217.2	216.6
75°	649.8	491.1	344.4	280.8	255.0	227.5	213.2	206.3	201.1	201.1	200.6
77.5°	410.3	373.0	277.3	223.5	204.0	187.4	177.6	168.5	168.5	167.9	167.3
80°	310.0	296.8	216.0	169.0	156.4	143.8	137.5	133.5	133.5	135.2	134.7
82.5°	212.6	223.5	151.8	118.0	111.7	102.6	101.4	102.0	100.3	98.0	97.4
85°	155.3	167.9	102.6	74.5	68.2	62.5	67.0	69.3	66.5	61.3	59.0
87.5°	59.6	110.0	55.0	30.9	28.7	24.6	28.7	29.8	32.1	25.2	25.8
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)