

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: P319350

Luminaire Tested: **GAN-SA6A-740-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6A-740-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27305 lumens  
Efficiency: N/A  
Efficacy: 141.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

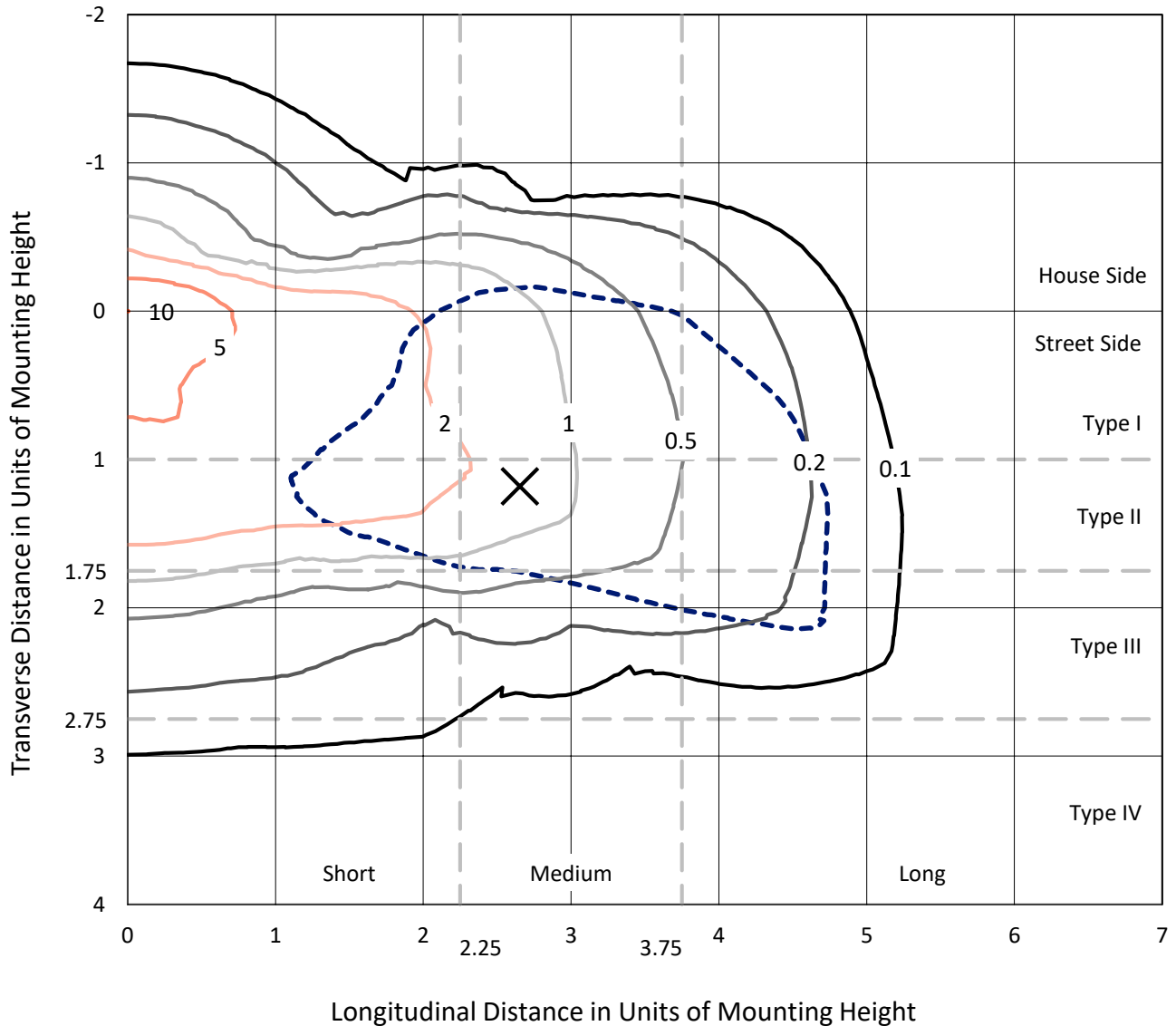
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

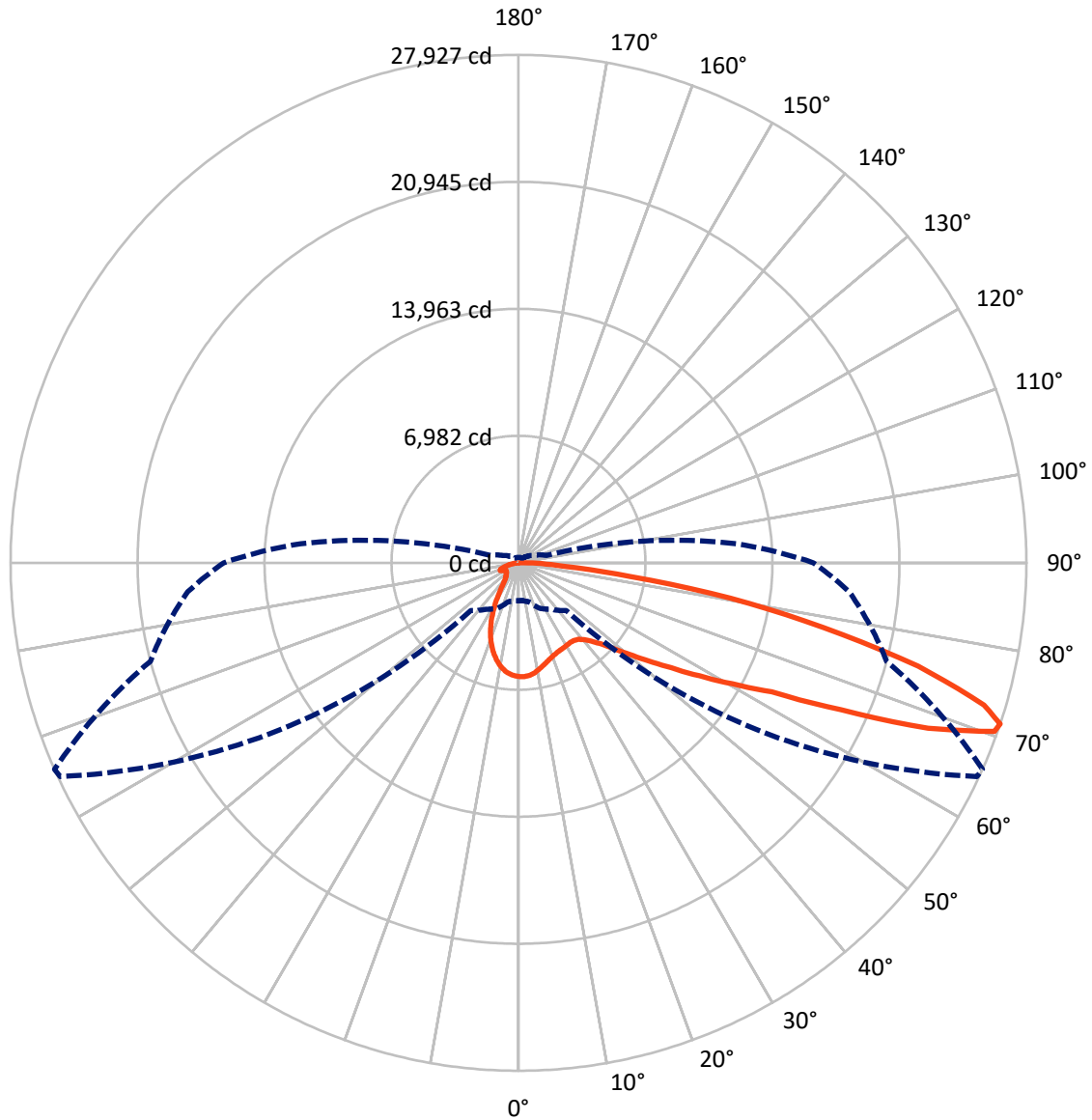
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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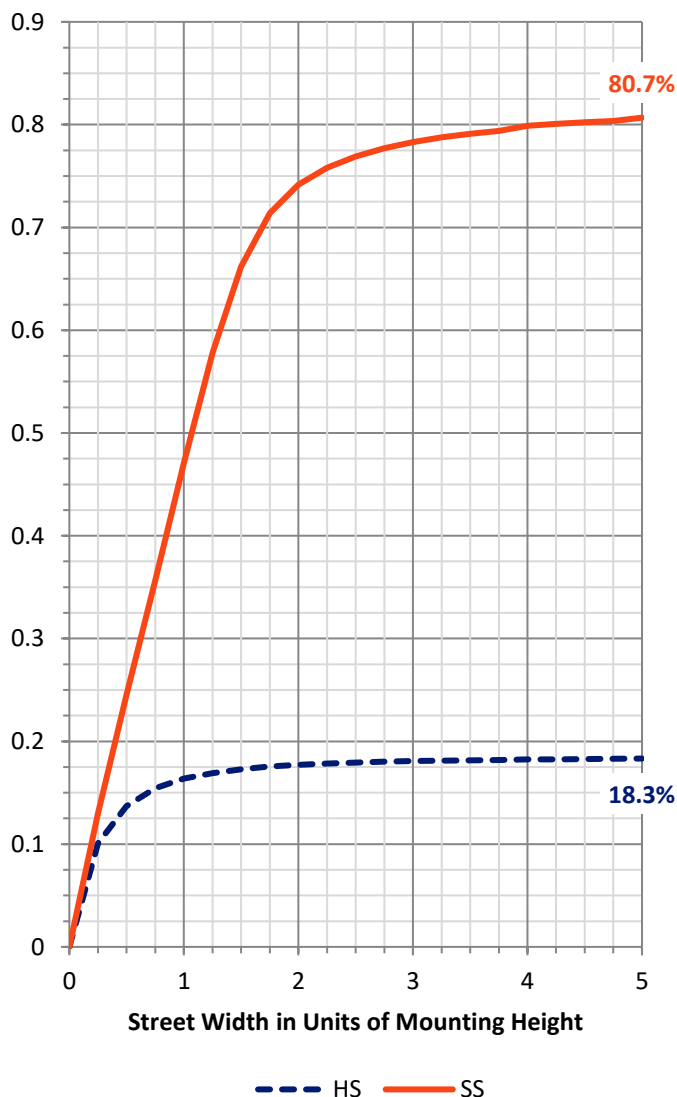
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5060.4	0.0	5060.4
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	22244.6	0.0	22244.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	27305.0	0.0	27305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	550.6	2.0
10°-20°	1320.6	4.8
20°-30°	1773.8	6.5
30°-40°	2333.5	8.5
40°-50°	3394.6	12.4
50°-60°	5302.7	19.4
60°-70°	6642.5	24.3
70°-80°	5066.7	18.6
80°-90°	920.1	3.4
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°	27305.0	100.0
0°-180°	27305.0	100.0

**Coefficient of Utilization**

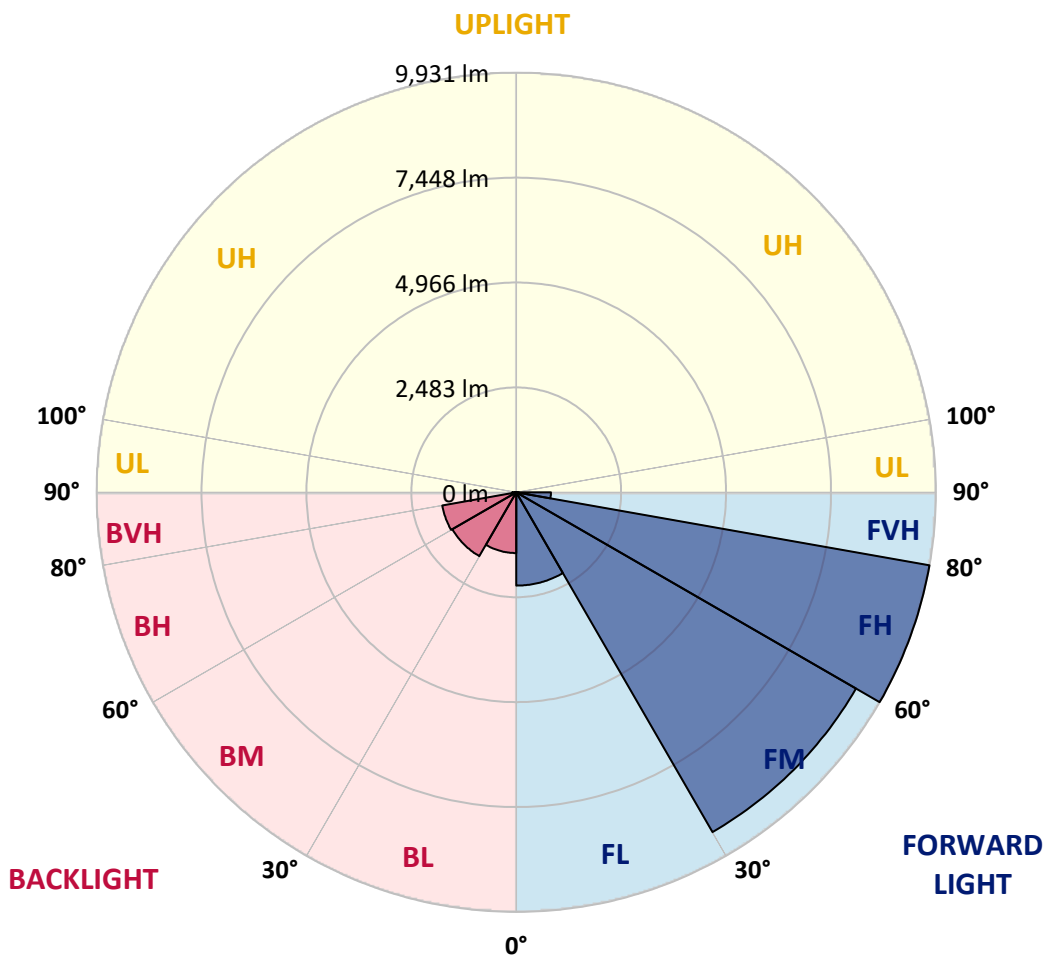


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2208.0	8.1			
FM (30°-60°)	9285.1	34.0			
FH (60°-80°)	9931.1	36.4			G4/12000
FVH (80°-90°)	820.5	3.0			G5
BL (0°-30°)	1437.0	5.3	B3/2500		
BM (30°-60°)	1745.7	6.4	B2/2500		
BH (60°-80°)	1778.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	99.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0
2.5°	6139.1	6129.7	6157.9	6187.2	6198.5	6217.3	6245.6	6261.6	6260.7	6263.5	6254.1
5°	5731.8	5719.6	5776.1	5822.3	5910.9	6010.9	6132.5	6219.2	6221.1	6270.1	6283.3
7.5°	5346.3	5337.8	5402.8	5477.3	5580.0	5732.8	5929.8	6116.5	6127.8	6260.7	6306.9
10°	5037.0	5035.1	5098.3	5179.4	5299.1	5469.7	5696.0	5969.4	5986.4	6215.5	6310.7
12.5°	4795.7	4799.5	4854.1	4946.5	5072.9	5251.0	5496.1	5804.4	5831.8	6143.8	6289.0
15°	4617.5	4632.6	4676.9	4770.2	4894.7	5075.7	5327.4	5651.7	5693.2	6063.7	6276.7
17.5°	4515.7	4532.7	4563.8	4641.1	4758.0	4932.4	5170.9	5526.3	5564.0	6002.4	6277.7
20°	4485.5	4499.7	4517.6	4564.7	4663.7	4822.1	5047.4	5413.2	5453.7	5953.4	6287.1
22.5°	4544.9	4555.3	4557.2	4553.4	4613.7	4742.9	4957.8	5330.2	5373.6	5921.3	6293.7
25°	4672.2	4686.3	4676.0	4641.1	4621.3	4700.5	4911.6	5275.5	5318.9	5897.8	6280.5
27.5°	4863.6	4865.5	4857.0	4811.7	4718.4	4705.2	4897.5	5243.5	5285.0	5870.4	6253.2
30°	5123.8	5136.0	5120.9	5059.7	4906.9	4780.6	4914.5	5212.4	5250.1	5835.5	6208.9
32.5°	5428.3	5458.4	5457.5	5393.4	5174.7	4949.4	4984.2	5193.5	5222.8	5798.8	6155.1
35°	5744.1	5785.6	5862.9	5835.5	5565.0	5216.2	5118.1	5223.7	5243.5	5794.0	6117.4
37.5°	6072.2	6113.6	6273.0	6346.5	6029.7	5598.0	5329.3	5330.2	5339.7	5851.6	6114.6
40°	6415.3	6459.6	6699.1	6890.5	6632.1	6081.6	5669.6	5552.7	5542.3	5993.0	6170.2
42.5°	6896.1	6935.7	7223.2	7467.4	7300.5	6701.0	6140.0	5895.9	5874.2	6270.1	6348.4
45°	7504.2	7538.1	7843.6	8104.7	8018.9	7408.0	6731.1	6368.2	6364.4	6732.1	6709.4
47.5°	8227.2	8253.6	8528.0	8780.6	8811.7	8221.6	7474.0	7096.9	7035.6	7365.6	7268.5
50°	8980.5	9009.7	9196.4	9467.9	9698.9	9310.5	8429.9	7989.7	7907.7	8201.8	8060.4
52.5°	9479.2	9517.9	9680.0	10024.1	10696.3	10504.0	9560.3	9071.9	8947.5	9215.2	9106.8
55°	9256.7	9343.4	9591.4	10142.9	11493.8	12327.2	10954.6	10334.3	10193.8	10416.3	10352.2
57.5°	8245.2	8363.9	8702.4	9553.7	11606.0	13933.6	13062.5	11821.0	11722.0	11657.9	11687.1
60°	6396.5	6510.5	6930.0	8039.6	10824.5	15106.4	16234.8	13653.6	13510.3	12904.2	12930.6
62.5°	4527.0	4469.5	4757.0	5568.7	8795.7	15244.0	19844.6	16104.7	15633.4	14220.2	14104.3
65°	3452.3	3439.1	3568.3	3826.6	5327.4	13597.1	21995.0	20224.5	19488.2	15768.2	15494.8
67.5°	2836.7	2813.1	2940.4	3316.5	3430.6	8772.1	22042.1	25004.2	24281.1	17695.1	17103.1
70°	2332.3	2305.9	2424.7	2910.2	3170.4	4448.8	18551.1	27803.1	27764.5	20134.9	18317.3
71°	2091.0	2072.1	2214.5	2753.7	3114.8	3707.8	16017.1	27810.7	27926.6	20960.8	18245.7
72.5°	1702.6	1709.2	1860.0	2451.1	3073.3	3274.1	11771.9	26514.4	26759.5	21748.0	17594.3
75°	1131.3	1136.9	1334.9	1885.5	2980.0	3203.4	6470.0	22248.5	22699.2	21276.6	16054.8
77.5°	759.8	758.0	892.8	1293.4	2596.3	3203.4	3793.6	16640.2	17135.2	16929.6	12377.2
80°	523.2	519.4	614.7	892.8	1965.6	3242.1	2932.8	11661.6	11811.5	9142.6	5030.4
82.5°	320.5	323.4	401.6	630.7	1337.7	2917.8	2768.8	6358.7	6195.7	2564.2	1256.7
85°	183.8	182.9	256.4	427.1	858.8	2462.4	2700.0	2736.8	2510.5	772.1	454.4
87.5°	66.0	70.7	137.6	236.6	492.1	1714.8	2290.8	1423.5	1283.1	348.8	205.5
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°	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0	6255.0
2.5°	6247.5	6253.2	6246.6	6208.9	6176.8	6124.9	6095.7	6055.2	6042.9	6037.3	6052.4
5°	6271.1	6273.0	6217.3	6118.4	6007.1	5876.1	5781.8	5665.8	5611.2	5587.6	5602.7
7.5°	6292.8	6284.3	6162.7	5973.2	5767.7	5539.5	5336.8	5151.1	5042.7	4998.4	5002.2
10°	6295.6	6259.8	6064.6	5771.4	5452.8	5118.1	4807.0	4520.4	4339.4	4221.6	4257.4
12.5°	6266.4	6206.0	5920.4	5510.3	5068.1	4611.9	4191.4	3761.5	3503.2	3383.5	3387.2
15°	6243.7	6134.4	5743.1	5203.0	4609.0	4004.7	3430.6	2925.3	2650.0	2527.5	2470.0
17.5°	6224.9	6057.1	5537.6	4857.0	4067.0	3300.5	2610.4	2159.8	2009.0	1973.1	1958.1
20°	6198.5	5975.1	5308.5	4456.3	3449.5	2512.4	1906.2	1683.7	1684.7	1726.1	1731.8
22.5°	6161.7	5881.7	5064.4	4006.6	2786.7	1829.8	1494.2	1430.1	1495.2	1574.4	1588.5
25°	6107.0	5771.4	4792.9	3509.8	2124.9	1406.6	1276.5	1273.6	1352.8	1435.8	1448.0
27.5°	6029.7	5627.2	4491.2	2976.2	1565.9	1195.4	1143.5	1163.3	1221.8	1282.1	1286.8
30°	5926.0	5459.4	4158.4	2413.4	1227.4	1064.3	1058.7	1076.6	1112.4	1154.9	1158.6
32.5°	5812.0	5288.7	3803.0	1868.5	1051.1	993.6	999.3	1007.8	1024.8	1041.7	1045.5
35°	5708.3	5114.3	3439.1	1419.8	967.2	947.4	943.7	941.8	943.7	938.0	939.0
37.5°	5641.3	4970.1	3060.1	1130.3	919.2	906.9	895.6	881.5	865.4	856.0	857.9
40°	5616.8	4862.6	2676.4	976.7	879.6	871.1	849.4	819.2	800.4	794.7	794.7
42.5°	5682.8	4807.0	2305.9	899.4	846.6	832.4	796.6	761.7	747.6	746.6	745.7
45°	5884.6	4829.6	1953.3	856.9	816.4	789.1	741.9	712.7	703.3	705.2	704.2
47.5°	6246.6	4972.0	1651.7	828.7	786.2	750.4	697.6	674.1	662.7	662.7	663.7
50°	6862.2	5304.8	1411.3	805.1	760.8	714.6	665.6	636.3	621.3	620.3	620.3
52.5°	7758.7	5900.6	1261.4	785.3	732.5	682.5	633.5	596.8	578.8	575.1	573.2
55°	8882.4	6754.7	1219.9	772.1	694.8	647.7	594.9	558.1	538.3	529.8	528.9
57.5°	10139.1	7793.6	1301.9	756.1	656.1	606.2	552.4	517.6	496.8	486.5	485.5
60°	11410.9	8927.7	1636.6	733.4	624.1	560.9	509.1	477.0	456.3	445.0	443.1
62.5°	12684.5	10123.1	2320.1	731.6	601.5	517.6	464.8	437.4	417.6	405.4	402.5
65°	14121.2	11431.6	3096.9	781.5	593.9	478.0	419.5	397.8	380.9	369.6	368.6
67.5°	15771.0	12908.9	3022.4	884.3	619.4	442.1	377.1	360.1	347.9	338.4	337.5
70°	16545.0	12677.9	1878.9	956.9	655.2	407.3	336.6	324.3	314.9	308.3	305.4
71°	16220.7	12037.8	1575.3	948.4	651.4	392.2	320.5	311.1	301.7	296.0	293.2
72.5°	15336.4	10978.1	1314.2	882.4	609.0	364.8	299.8	290.4	281.9	275.3	273.4
75°	13762.0	9804.4	1052.1	705.2	485.5	308.3	263.0	252.7	246.1	242.3	238.5
77.5°	10116.5	6997.0	813.6	557.2	357.3	251.7	224.4	216.8	210.2	204.6	201.7
80°	3875.6	2710.4	547.7	415.7	262.1	198.9	181.0	177.2	170.6	166.9	166.9
82.5°	1043.6	809.8	292.2	251.7	175.3	145.2	138.6	136.7	131.0	123.5	124.4
85°	422.3	357.3	164.0	138.6	107.5	85.8	93.3	94.3	87.7	78.2	79.2
87.5°	185.7	151.8	91.4	61.3	47.1	33.0	42.4	42.4	38.7	32.1	29.2
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)