

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: P648127

Luminaire Tested: **GALN-SA8A-835-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648127  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8A-835-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29589.6 lumens  
Efficiency: N/A  
Efficacy: 121.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

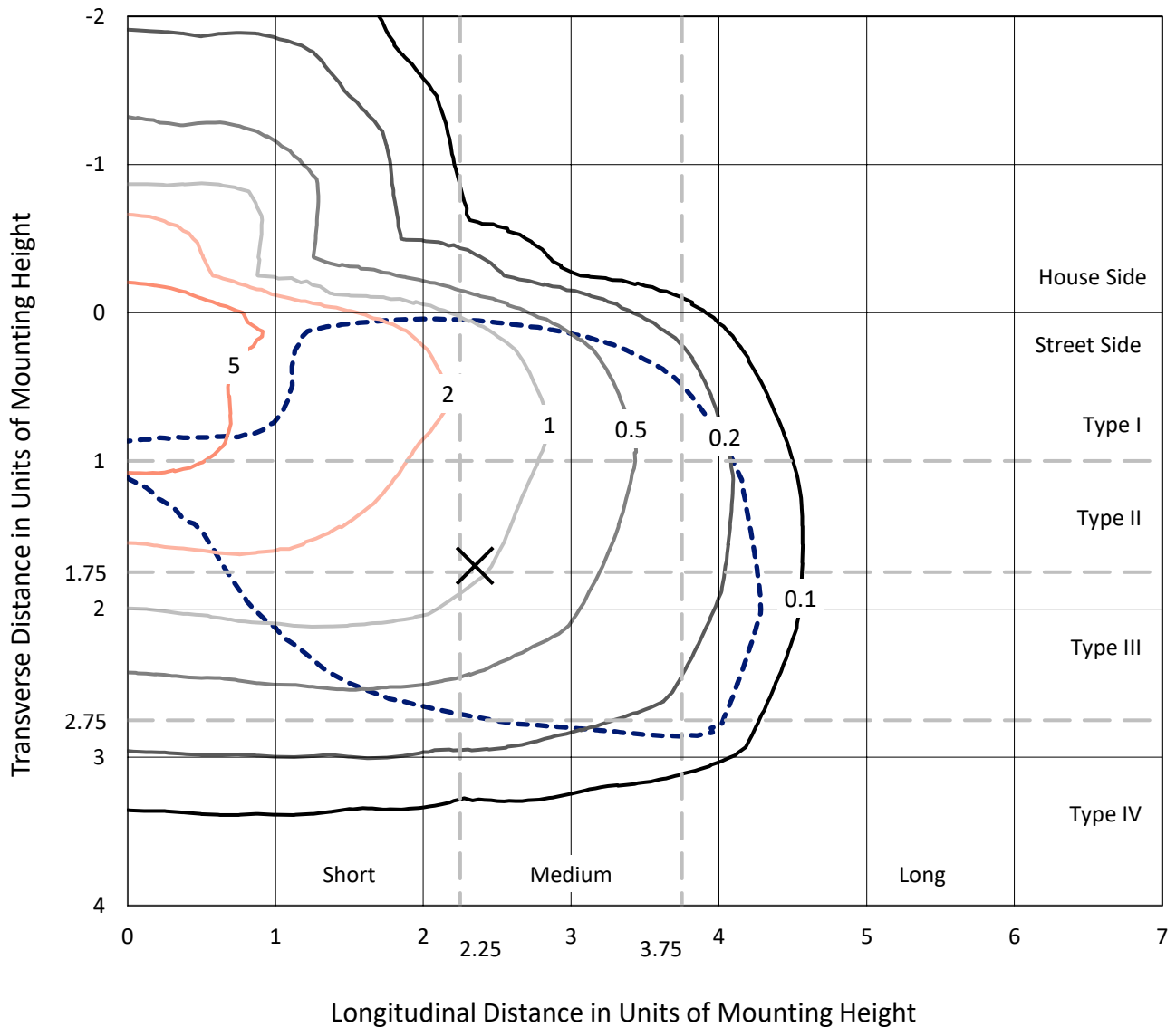
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

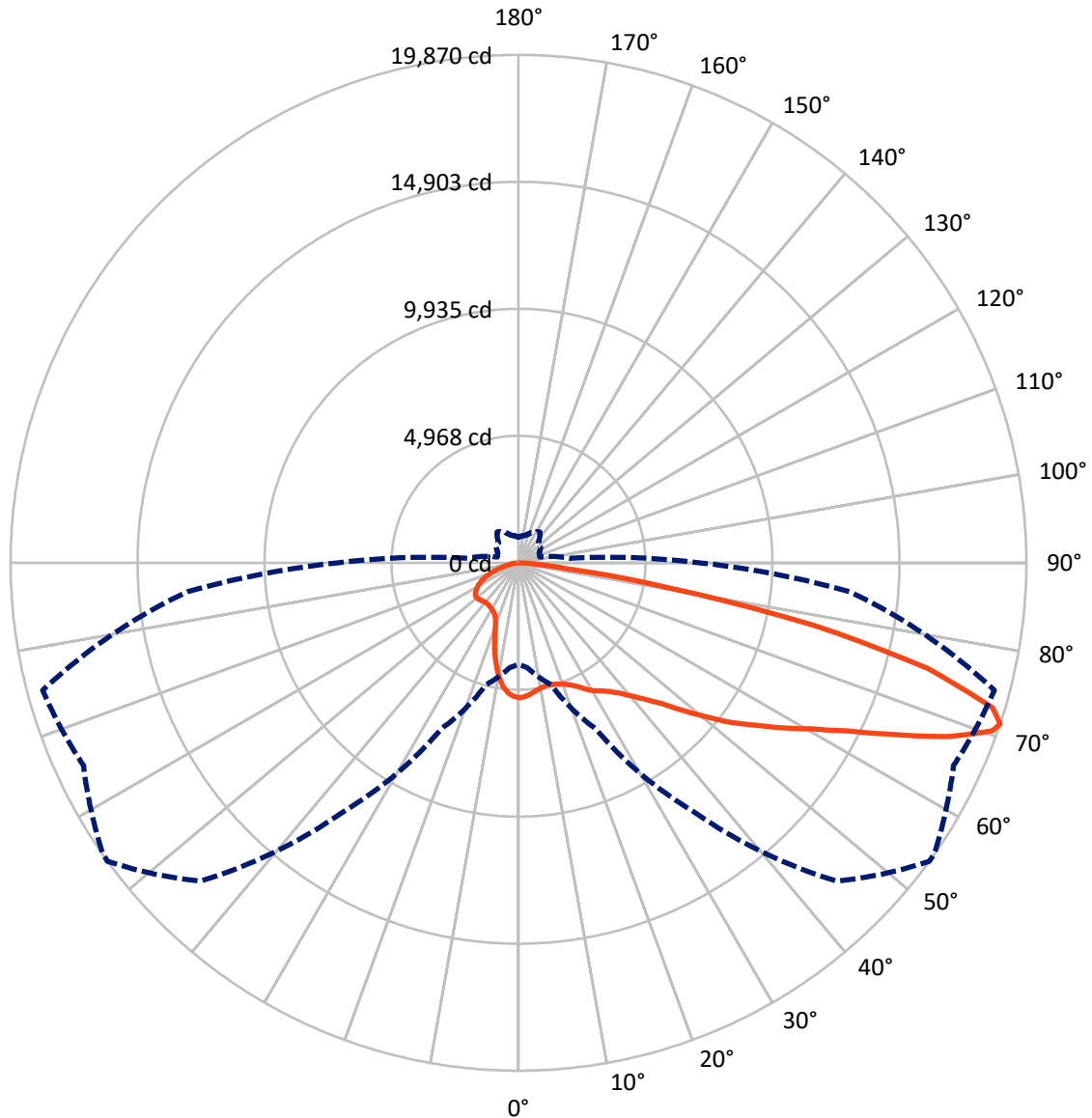
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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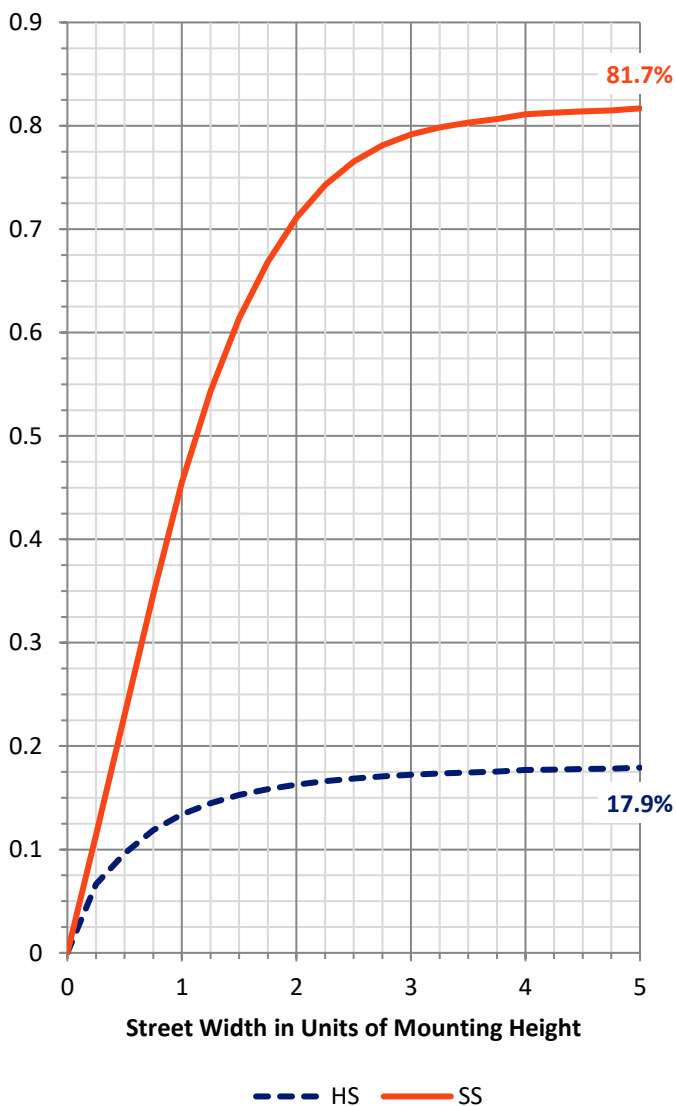
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5342.2	0.0	5342.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	24247.4	0.0	24247.4
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	29589.6	0.0	29589.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.5	1.6
10°-20°	1242.2	4.2
20°-30°	2068.4	7.0
30°-40°	3058.5	10.3
40°-50°	4308.0	14.6
50°-60°	5768.6	19.5
60°-70°	7270.8	24.6
70°-80°	4965.9	16.8
80°-90°	436.7	1.5
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°	29589.6	100.0
0°-180°	29589.6	100.0

**Coefficient of Utilization**

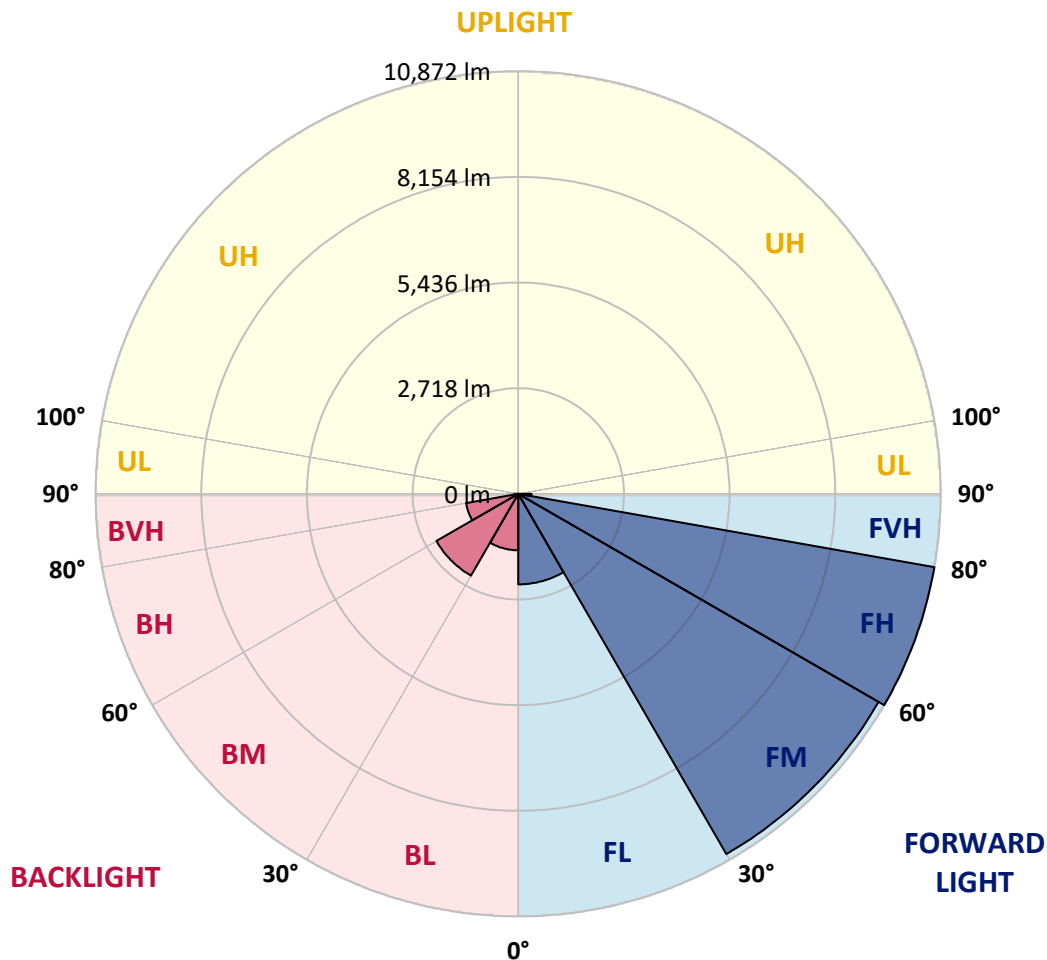


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2329.2	7.9			
FM (30°-60°)	10704.4	36.2			
FH (60°-80°)	10872.4	36.7			G4/12000
FVH (80°-90°)	341.4	1.2			G3/500
BL (0°-30°)	1451.9	4.9	B3/2500		
BM (30°-60°)	2430.5	8.2	B2/2500		
BH (60°-80°)	1364.4	4.6	B3/2500		G3/2500
BVH (80°-90°)	95.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2
2.5°	5100.2	5124.2	5130.6	5146.6	5180.1	5207.3	5234.4	5231.3	5269.6	5285.6	5300.0
5°	4873.2	4879.7	4903.6	4935.6	4994.8	5069.8	5143.4	5144.9	5239.3	5314.4	5351.2
7.5°	4707.0	4727.8	4743.8	4777.3	4839.6	4921.2	5037.9	5047.5	5215.2	5363.9	5442.2
10°	4598.3	4622.3	4639.9	4681.5	4743.8	4834.9	4961.2	4978.7	5197.7	5442.2	5579.7
12.5°	4499.3	4523.2	4539.2	4593.5	4675.1	4786.9	4929.2	4950.0	5204.1	5533.4	5729.9
15°	4560.0	4579.1	4572.8	4588.8	4643.1	4771.0	4942.0	4962.7	5228.1	5621.2	5878.6
17.5°	4830.1	4846.1	4793.4	4732.6	4707.0	4801.4	4981.9	5004.3	5276.0	5712.4	6030.4
20°	5228.1	5271.2	5156.1	5020.3	4897.2	4910.0	5065.1	5089.0	5343.1	5803.4	6185.5
22.5°	5745.9	5777.9	5637.2	5413.5	5186.5	5069.8	5189.7	5204.1	5443.8	5921.8	6354.9
25°	6354.9	6374.1	6179.0	5891.4	5563.7	5343.1	5360.7	5386.3	5610.0	6056.0	6505.1
27.5°	6946.2	7007.0	6781.6	6430.0	5998.5	5630.9	5595.7	5611.7	5790.7	6131.1	6609.0
30°	7647.9	7643.1	7405.0	6997.4	6444.4	5944.1	5817.8	5814.6	5888.2	6167.8	6684.2
32.5°	8207.3	8272.9	8039.5	7595.2	6954.2	6268.5	5971.3	5964.9	5963.3	6231.8	6796.0
35°	8843.4	8853.1	8638.8	8191.4	7505.7	6676.2	6185.5	6153.5	6116.7	6369.2	6947.9
37.5°	9412.4	9457.2	9260.6	8758.7	8047.5	7099.7	6479.6	6458.7	6346.9	6607.4	7190.8
40°	9856.8	9890.3	9772.1	9294.2	8581.3	7556.8	6853.5	6815.2	6679.3	6997.4	7515.2
42.5°	10002.2	10070.9	10117.3	9882.3	9195.1	8098.6	7313.8	7265.9	7162.0	7588.8	7889.3
45°	10013.4	10122.1	10366.6	10377.8	9812.0	8747.5	7850.9	7817.3	7809.3	8346.4	8415.1
47.5°	9928.7	10039.0	10449.8	10671.9	10361.8	9402.9	8626.1	8573.3	8578.2	9283.0	9004.9
50°	9724.2	9855.2	10353.8	10860.5	10791.8	10083.7	9444.4	9426.9	9525.9	10352.3	9617.0
52.5°	9338.9	9497.2	10254.8	10978.8	11111.5	10670.3	10374.6	10325.1	10576.0	11512.6	10286.7
55°	8272.9	8511.0	9892.0	11044.3	11415.1	11231.4	11212.2	11301.7	11634.1	12778.5	11023.5
57.5°	7716.6	7895.6	9103.9	11055.5	11798.7	11883.4	12190.3	12212.7	12794.5	14122.7	11856.3
60°	7413.0	7571.2	8672.4	10982.0	12334.1	12690.6	13190.9	13270.8	13927.7	15578.7	12719.4
62.5°	7147.6	7283.5	8413.5	10727.9	12938.3	13887.7	14487.1	14525.4	15214.3	17186.6	13571.3
65°	6522.7	6677.7	7892.5	10473.7	13459.4	15383.8	16206.8	16162.1	16584.1	18573.9	14105.1
67.5°	5680.4	5877.0	6919.1	9596.3	13716.7	17018.8	18144.0	18088.1	17936.3	19483.4	14258.5
70°	4604.7	4710.2	5674.0	8079.5	12689.0	17877.1	19673.6	19614.5	18773.8	19603.3	13532.9
71°	3962.2	4126.8	4940.3	7176.4	11833.9	17615.0	19870.2	19854.2	18775.3	19272.4	12986.3
72.5°	3092.7	3193.4	3912.7	5560.6	10058.2	16125.3	19384.3	19445.0	18367.8	18353.4	11859.5
75°	1956.3	2001.1	2455.0	3273.3	5519.0	11419.9	16547.3	16712.0	16309.2	15022.5	8819.5
77.5°	1136.4	1193.9	1470.5	1929.2	2384.7	6198.2	11840.3	12019.3	11332.0	8271.2	3610.6
80°	661.7	725.6	968.6	1120.4	1094.9	2300.0	6028.8	6334.1	4906.8	2089.0	1013.4
82.5°	367.6	410.8	680.9	682.5	583.4	751.2	1897.2	1985.1	1400.1	842.3	414.0
85°	266.9	302.1	439.5	398.0	279.7	322.8	660.1	692.1	565.8	354.9	134.3
87.5°	94.3	134.3	241.3	191.8	76.7	67.1	190.2	155.0	143.8	99.1	30.4
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°	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2	5279.2
2.5°	5308.0	5311.2	5295.2	5266.5	5237.6	5200.9	5159.3	5127.4	5113.0	5111.4	5109.8
5°	5365.5	5373.5	5312.8	5223.3	5124.2	5002.7	4898.8	4780.5	4750.1	4702.2	4716.6
7.5°	5458.2	5453.4	5333.6	5143.4	4911.6	4654.3	4436.9	4310.6	4179.6	4142.9	4144.4
10°	5590.9	5560.6	5333.6	4980.3	4593.5	4211.5	3907.9	3716.0	3612.2	3525.8	3493.9
12.5°	5731.6	5654.8	5282.4	4751.8	4184.4	3716.0	3390.0	3131.1	3064.0	2993.6	2995.2
15°	5865.8	5737.9	5181.7	4430.5	3743.2	3187.0	2870.6	2715.5	2694.8	2702.8	2701.1
17.5°	5987.3	5797.1	5028.3	4072.5	3228.6	2733.1	2565.3	2576.5	2632.4	2672.4	2677.2
20°	6110.4	5832.3	4799.7	3593.0	2742.7	2458.2	2464.6	2552.5	2637.2	2691.6	2699.5
22.5°	6227.0	5848.2	4531.2	3129.5	2391.0	2341.6	2435.8	2530.1	2613.3	2666.0	2673.9
25°	6303.7	5811.4	4150.8	2645.2	2218.5	2300.0	2399.0	2479.0	2549.3	2603.6	2616.4
27.5°	6324.5	5693.2	3679.3	2253.6	2138.5	2260.0	2351.1	2410.2	2464.6	2515.7	2525.3
30°	6313.3	5519.0	3161.4	2023.4	2092.2	2213.7	2284.0	2327.2	2392.7	2432.6	2440.6
32.5°	6295.7	5315.9	2621.2	1900.4	2053.8	2170.5	2212.1	2250.4	2248.9	2232.8	2244.0
35°	6302.1	5073.1	2183.3	1826.9	2020.3	2138.5	2173.7	2125.8	1988.3	1981.9	1975.5
37.5°	6335.7	4833.3	1865.3	1775.7	2002.7	2133.8	2152.9	1932.4	1810.9	1754.9	1740.5
40°	6422.0	4553.6	1655.8	1737.4	2001.1	2170.5	2058.6	1834.9	1601.5	1492.8	1484.8
42.5°	6537.1	4278.7	1527.9	1713.4	2020.3	2226.5	2020.3	1697.4	1443.3	1379.3	1369.8
45°	6708.1	3963.8	1457.6	1702.2	2049.0	2247.2	2007.5	1596.7	1379.3	1328.2	1328.2
47.5°	6901.5	3663.3	1419.3	1694.2	2085.8	2232.8	1894.0	1564.7	1349.0	1355.4	1385.8
50°	7093.3	3402.8	1390.5	1676.6	2117.8	2224.8	1847.6	1563.2	1356.9	1438.4	1492.8
52.5°	7315.5	3219.0	1355.4	1647.8	2117.8	2173.7	1833.2	1595.1	1379.3	1403.3	1427.3
55°	7584.0	3161.4	1310.6	1585.5	2079.4	2045.8	1825.3	1641.5	1395.3	1339.4	1349.0
57.5°	7938.8	3254.1	1267.4	1507.2	1991.5	1913.2	1822.0	1654.2	1358.6	1312.2	1302.6
60°	8351.2	3438.0	1254.7	1427.3	1871.6	1799.7	1802.9	1617.5	1307.5	1259.5	1267.4
62.5°	8640.5	3548.2	1246.7	1366.6	1740.5	1675.0	1756.5	1572.7	1285.1	1243.5	1251.5
65°	8640.5	3414.0	1173.2	1273.9	1571.2	1524.8	1700.6	1516.8	1256.2	1208.3	1200.3
67.5°	8312.8	3022.4	1061.3	1134.8	1384.1	1353.8	1622.3	1449.6	1213.1	1176.4	1157.2
70°	7459.3	2292.0	920.7	971.8	1147.6	1174.7	1521.6	1358.6	1141.2	1096.4	1067.7
71°	7083.7	1996.3	861.5	888.6	1056.5	1096.4	1473.6	1320.2	1109.2	1045.3	994.2
72.5°	6359.7	1681.4	772.0	783.2	903.0	975.0	1372.9	1246.7	1048.5	957.4	899.8
75°	4831.7	1227.5	621.8	615.4	668.1	773.6	1162.0	1110.8	919.0	795.9	762.4
77.5°	2087.4	668.1	465.1	469.9	453.9	586.5	914.2	954.2	787.9	647.3	616.9
80°	632.9	385.2	318.1	324.5	303.6	393.2	644.1	748.0	632.9	503.5	461.9
82.5°	324.5	230.1	217.4	214.2	193.4	222.1	390.0	511.5	452.3	314.8	278.1
85°	140.6	123.1	107.1	103.9	91.1	79.9	139.1	255.7	239.8	175.8	167.8
87.5°	35.2	31.9	20.7	19.2	11.2	1.6	0.0	0.0	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)