

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: P650743

Luminaire Tested: **GALN-SA2C-840-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-840-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 11638.6 lumens  
Efficiency: N/A  
Efficacy: 107.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G3

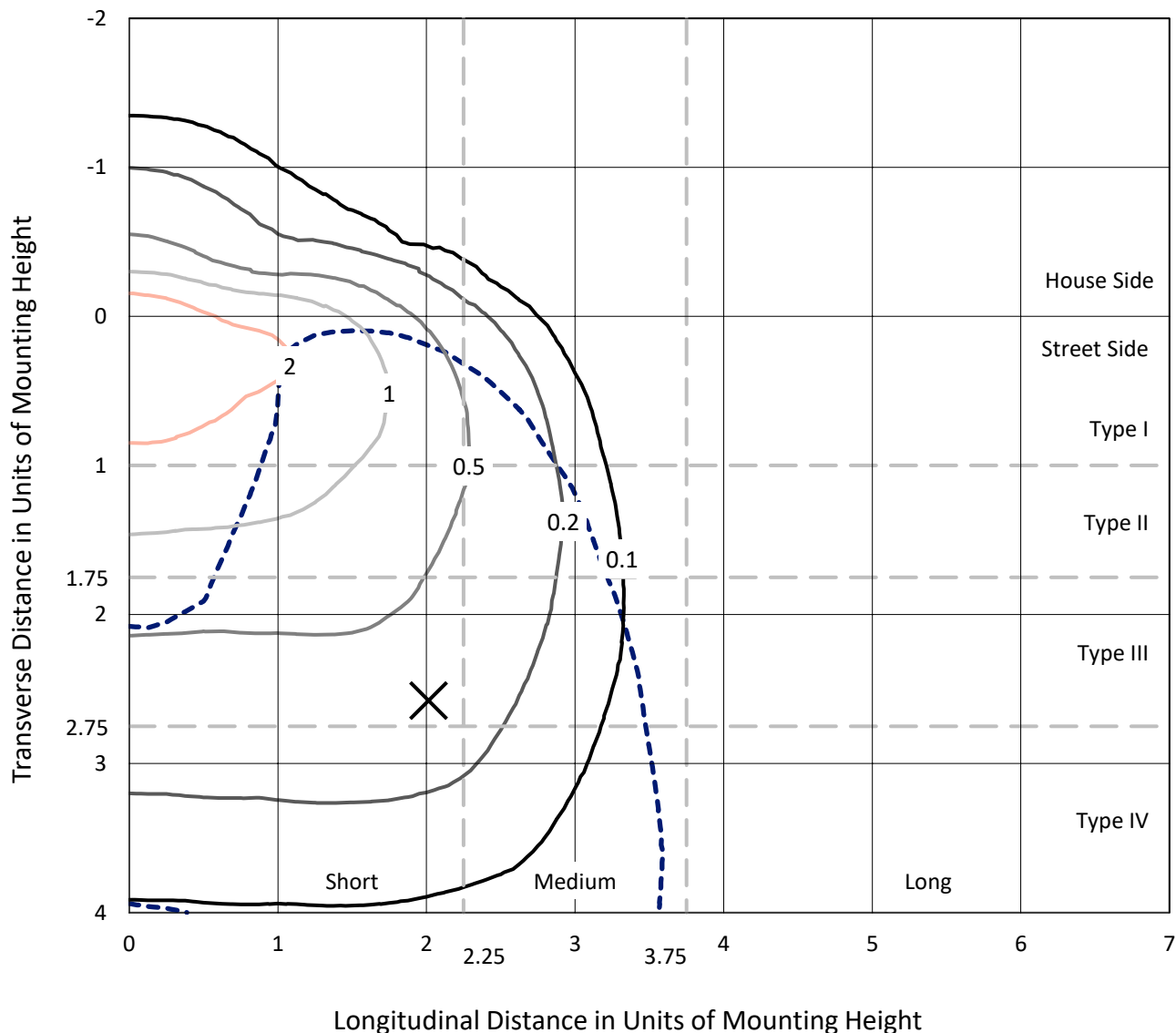
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

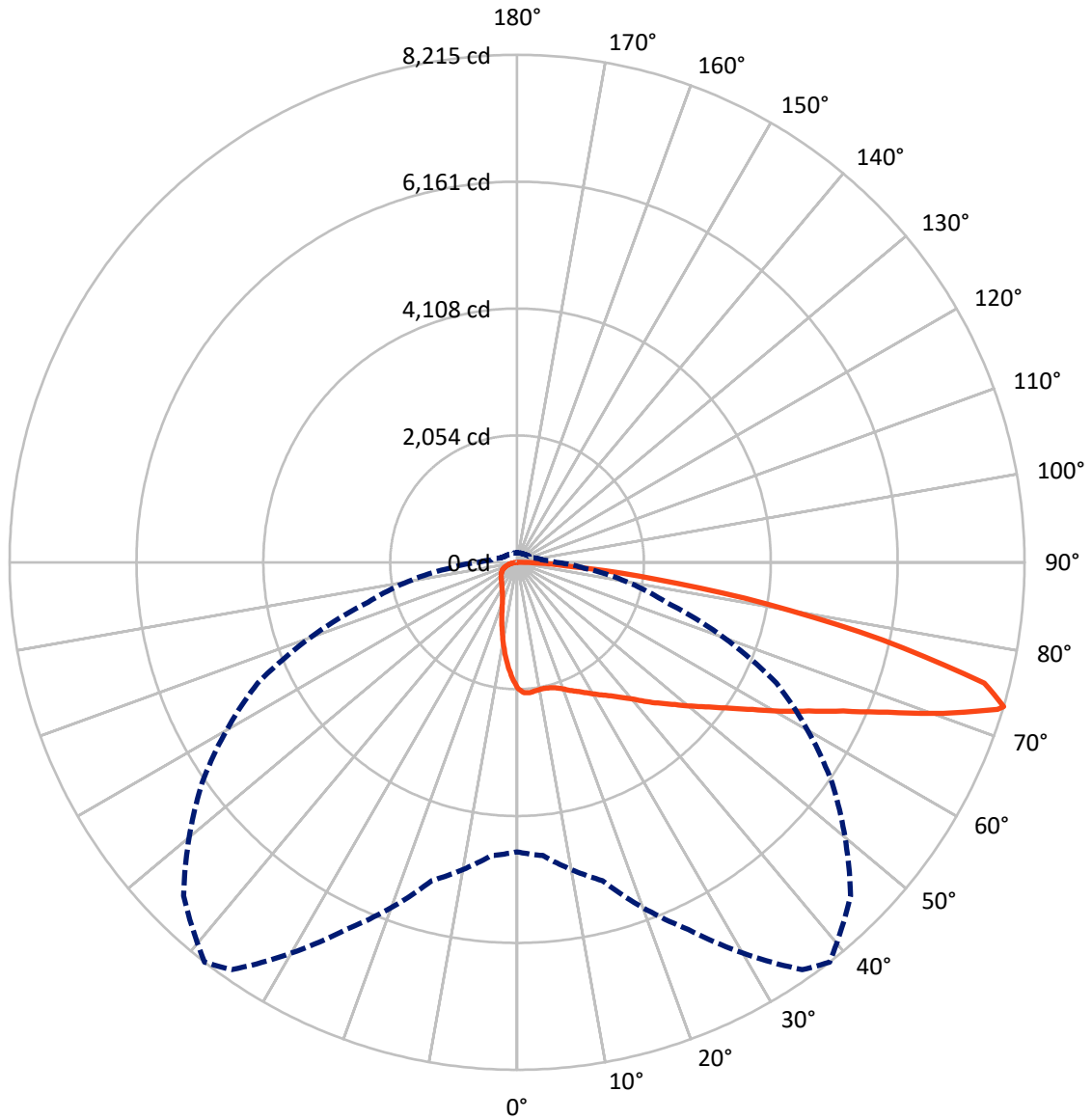
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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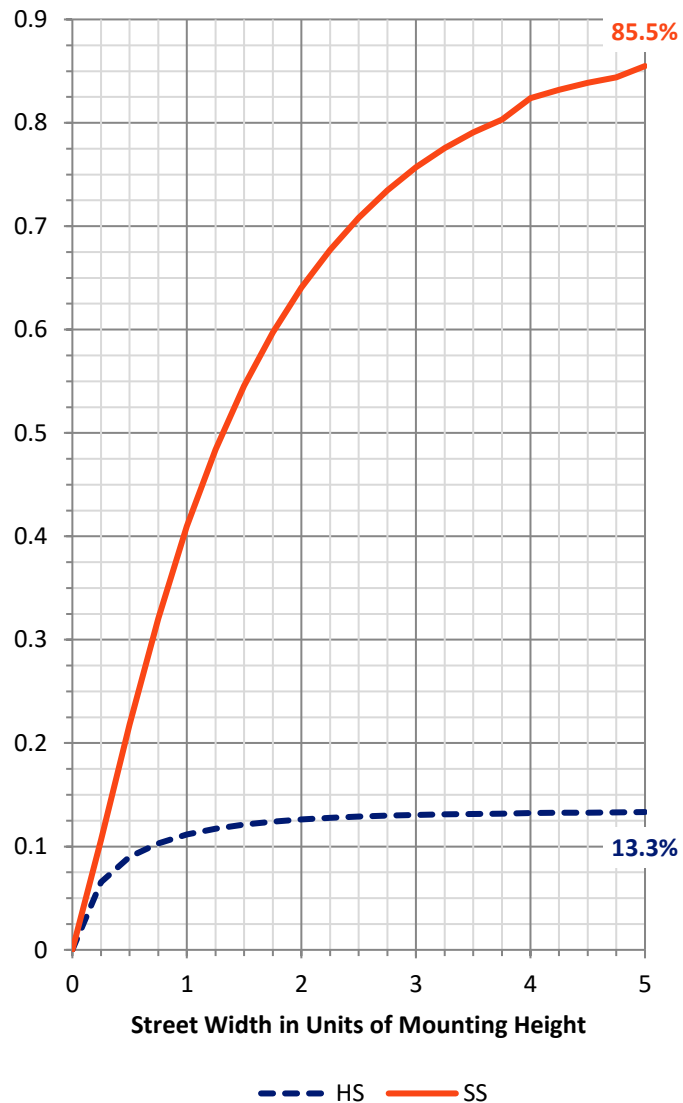
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1564.6	0.0	1564.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	10074.0	0.0	10074.0
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	11638.6	0.0	11638.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.5	1.5
10°-20°	457.7	3.9
20°-30°	712.7	6.1
30°-40°	1045.4	9.0
40°-50°	1550.7	13.3
50°-60°	2197.0	18.9
60°-70°	2787.0	23.9
70°-80°	2319.9	19.9
80°-90°	389.8	3.3
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°	11638.6	100.0
0°-180°	11638.6	100.0

**Coefficient of Utilization**

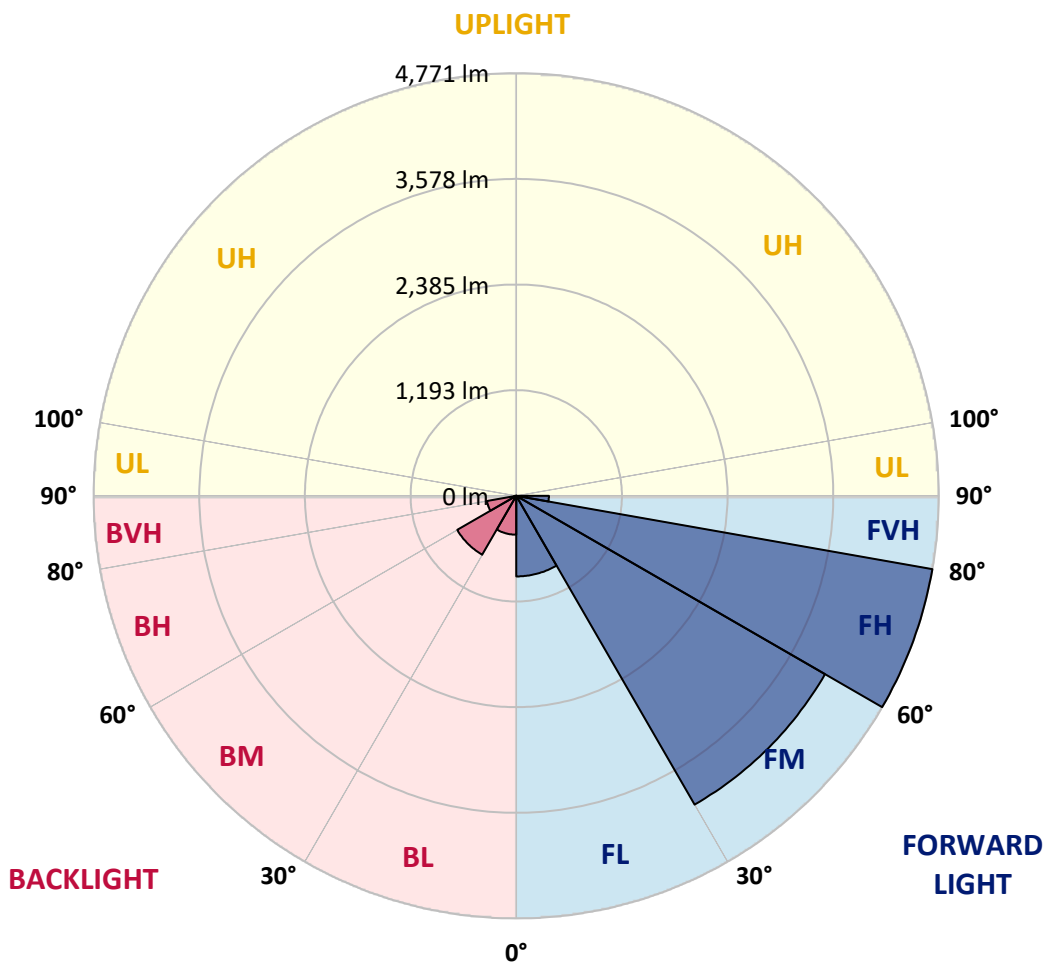


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	909.8	7.8			
FM (30°-60°)	4024.9	34.6			
FH (60°-80°)	4770.6	41.0			G2/5000
FVH (80°-90°)	368.6	3.2			G3/500
BL (0°-30°)	439.0	3.8	B1/500		
BM (30°-60°)	768.1	6.6	B1/1000		
BH (60°-80°)	336.3	2.9	B1/500		G1/500
BVH (80°-90°)	21.1	0.2			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°	38°	45°	55°	65°	75°	85°
0°	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7
2.5°	2126.9	2137.4	2132.1	2124.9	2120.3	2115.7	2109.1	2090.1	2074.9	2058.5	2032.9
5°	2142.6	2149.2	2144.6	2135.4	2124.9	2120.3	2107.8	2082.8	2058.5	2030.9	1992.7
7.5°	2133.4	2136.1	2130.8	2119.7	2110.4	2101.9	2087.4	2059.9	2030.3	1996.7	1946.7
10°	2100.6	2110.4	2110.4	2101.2	2092.0	2087.4	2073.0	2046.7	2019.7	1981.6	1922.4
12.5°	2073.7	2084.2	2092.7	2090.1	2089.4	2089.4	2078.2	2058.5	2027.0	1990.8	1920.5
15°	2055.2	2067.7	2086.1	2096.6	2103.2	2105.2	2100.6	2083.5	2051.3	2009.2	1928.4
17.5°	2051.3	2066.4	2099.9	2122.9	2140.0	2139.3	2138.1	2114.4	2078.9	2035.5	1938.3
20°	2069.0	2088.7	2135.4	2171.5	2196.5	2191.9	2184.7	2153.8	2112.4	2063.7	1947.4
22.5°	2122.3	2142.6	2193.9	2233.4	2257.7	2257.7	2236.0	2195.2	2151.2	2096.6	1960.0
25°	2198.5	2220.8	2275.4	2315.5	2326.6	2318.1	2296.4	2247.2	2196.5	2144.0	1986.2
27.5°	2291.8	2318.8	2369.3	2402.9	2399.6	2393.1	2370.7	2307.6	2257.0	2209.1	2030.9
30°	2408.2	2427.9	2480.4	2488.4	2476.5	2475.2	2443.7	2380.5	2333.3	2296.4	2094.7
32.5°	2518.0	2535.7	2577.7	2581.0	2560.0	2562.6	2533.0	2475.2	2448.2	2435.1	2201.8
35°	2634.3	2643.4	2679.6	2675.6	2661.8	2659.9	2648.1	2592.9	2601.4	2625.1	2353.6
37.5°	2731.6	2749.9	2770.3	2773.6	2772.9	2779.5	2787.4	2761.1	2810.4	2884.6	2552.8
40°	2820.9	2836.7	2866.9	2877.5	2903.0	2916.3	2943.2	2943.8	3057.5	3179.7	2797.9
42.5°	2881.4	2908.3	2964.9	2984.0	3046.4	3085.8	3125.9	3168.6	3333.6	3490.7	3087.1
45°	2934.0	2969.5	3063.4	3122.6	3207.4	3255.3	3340.1	3429.5	3666.8	3872.6	3380.9
47.5°	3013.5	3045.0	3152.8	3257.4	3385.5	3440.7	3567.5	3701.0	4011.2	4236.6	3662.2
50°	3123.9	3143.0	3252.7	3423.0	3586.6	3657.6	3825.2	4017.8	4379.3	4596.1	3909.3
52.5°	3265.2	3273.1	3360.6	3587.3	3802.8	3890.9	4113.1	4337.9	4701.3	4908.3	4105.2
55°	3432.1	3419.0	3487.4	3761.5	4050.0	4165.0	4403.6	4661.9	5063.5	5160.7	4247.8
57.5°	3597.1	3576.8	3631.3	3973.1	4355.0	4493.6	4771.7	4995.8	5386.9	5396.7	4347.7
60°	3772.0	3756.8	3821.9	4221.5	4728.9	4893.2	5150.2	5342.1	5699.7	5561.0	4363.4
62.5°	3951.4	3927.0	4019.7	4500.9	5150.2	5299.4	5548.5	5710.2	6006.6	5622.1	4211.6
65°	4125.5	4114.4	4257.6	4832.7	5630.0	5799.5	6041.4	6151.2	6252.4	5530.1	3835.0
67.5°	4310.9	4333.3	4562.0	5275.8	6255.7	6468.6	6729.6	6626.4	6322.7	5094.4	3229.7
70°	4593.5	4608.0	4961.6	5856.1	7062.1	7319.1	7445.3	6795.3	5983.6	4266.9	2427.9
72.5°	4715.2	4778.9	5318.5	6465.4	7978.4	8135.4	7685.9	6418.7	4984.6	2898.5	1275.7
73°	4688.2	4764.4	5334.9	6558.0	8050.0	8215.0	7634.6	6224.8	4633.6	2496.3	1093.6
75°	4352.3	4446.3	5121.3	6480.5	7910.7	7812.0	6810.4	5305.3	3131.1	1135.1	498.2
77.5°	3434.1	3461.1	4057.8	5233.0	6229.5	6046.7	5097.0	3315.8	1279.0	421.9	282.6
80°	1722.6	1821.9	2287.3	2997.7	4165.6	4105.8	3217.2	1568.2	533.0	247.8	187.3
82.5°	828.8	899.1	1114.1	1461.7	2301.6	2247.2	1593.2	857.1	338.5	144.6	110.4
85°	533.7	586.3	709.1	697.4	946.5	903.7	715.8	648.7	200.5	75.6	76.9
87.5°	352.3	385.8	462.7	370.0	344.4	311.5	316.1	365.4	39.4	28.9	10.5
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°	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7	2044.7
2.5°	2022.4	2013.8	1985.5	1957.9	1931.7	1906.7	1890.2	1868.5	1854.1	1858.0	1864.0
5°	1971.7	1952.7	1902.8	1854.1	1808.1	1753.6	1709.5	1674.0	1647.1	1637.2	1635.2
7.5°	1918.5	1886.3	1814.6	1731.2	1653.0	1585.3	1507.1	1468.3	1423.0	1407.2	1401.9
10°	1886.3	1843.0	1742.4	1626.1	1508.4	1396.0	1311.2	1242.2	1179.8	1167.9	1162.0
12.5°	1877.1	1819.9	1684.5	1534.7	1378.2	1240.2	1114.7	1024.0	963.5	949.7	929.4
15°	1871.8	1800.8	1630.6	1442.7	1244.2	1075.9	943.8	838.0	782.8	746.0	746.6
17.5°	1867.3	1779.1	1570.1	1342.1	1128.5	934.6	788.7	693.4	642.8	623.1	621.1
20°	1860.7	1753.6	1500.5	1236.3	996.4	805.8	673.6	602.7	568.5	552.1	551.4
22.5°	1858.0	1728.6	1432.1	1128.5	879.4	706.5	597.4	547.5	525.8	514.6	514.6
25°	1864.6	1710.8	1360.5	1025.9	775.6	621.8	544.9	510.7	498.2	492.3	490.3
27.5°	1885.0	1702.9	1289.5	923.4	680.3	563.9	509.4	485.7	476.5	471.9	472.6
30°	1923.8	1702.3	1219.9	822.2	609.3	519.9	481.1	464.7	457.4	454.8	454.1
32.5°	1986.2	1716.7	1151.5	738.7	549.4	483.1	454.8	443.0	439.7	437.7	437.1
35°	2092.0	1757.5	1083.8	662.5	503.4	450.2	429.8	423.9	419.3	421.3	421.9
37.5°	2234.6	1827.8	1019.4	602.7	468.6	425.9	408.8	403.5	400.9	402.9	404.9
40°	2425.9	1929.0	965.5	554.7	443.6	405.5	390.4	385.8	383.2	386.4	387.1
42.5°	2636.9	2046.0	920.8	517.2	423.3	388.5	374.0	368.7	366.8	368.7	369.4
45°	2853.8	2182.1	897.8	490.3	406.2	375.9	360.8	354.9	350.3	349.0	350.9
47.5°	3067.4	2300.4	897.2	473.9	392.4	364.7	348.3	341.8	335.9	332.5	331.9
50°	3241.6	2394.3	912.9	466.7	380.6	352.3	335.9	329.3	321.4	314.8	316.1
52.5°	3373.0	2455.5	920.1	463.4	374.0	339.2	322.7	316.8	307.6	299.1	299.1
55°	3457.8	2469.9	902.4	460.1	368.7	325.3	307.6	302.3	293.2	284.6	284.6
57.5°	3486.7	2425.3	838.6	452.2	363.5	313.5	292.5	287.9	280.6	272.1	270.8
60°	3419.7	2274.1	727.0	428.5	353.0	301.0	276.0	274.1	271.5	264.2	263.6
62.5°	3161.4	1953.3	605.4	397.6	335.2	287.9	261.0	264.2	266.2	262.2	261.6
65°	2731.6	1586.0	517.2	354.9	311.5	269.5	244.5	253.1	258.3	258.3	257.0
67.5°	2215.6	1217.9	435.7	318.2	282.0	244.5	226.1	232.7	236.6	235.3	238.6
70°	1574.8	824.9	354.9	276.0	244.5	216.2	202.4	202.4	199.8	198.5	198.5
72.5°	763.7	471.2	287.9	230.7	208.3	184.7	173.5	168.9	163.7	163.0	159.7
73°	638.2	422.6	274.8	222.2	199.8	180.1	167.6	160.4	157.1	154.5	153.8
75°	388.5	320.8	229.3	187.3	170.2	155.1	144.0	137.3	134.1	132.1	131.4
77.5°	255.7	239.3	178.1	143.3	130.1	120.9	116.3	109.8	107.8	105.1	105.1
80°	190.6	182.7	127.5	101.3	93.4	85.4	84.1	82.8	77.5	74.3	72.9
82.5°	122.9	130.1	86.8	67.7	59.1	52.6	53.2	55.2	50.0	45.3	44.1
85°	87.4	94.0	52.6	30.9	25.0	21.7	24.3	21.7	22.4	17.7	14.5
87.5°	14.5	25.0	9.2	4.0	1.9	1.3	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)