

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: P946996

Luminaire Tested: **GALN-SB2C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14128 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 100.9
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

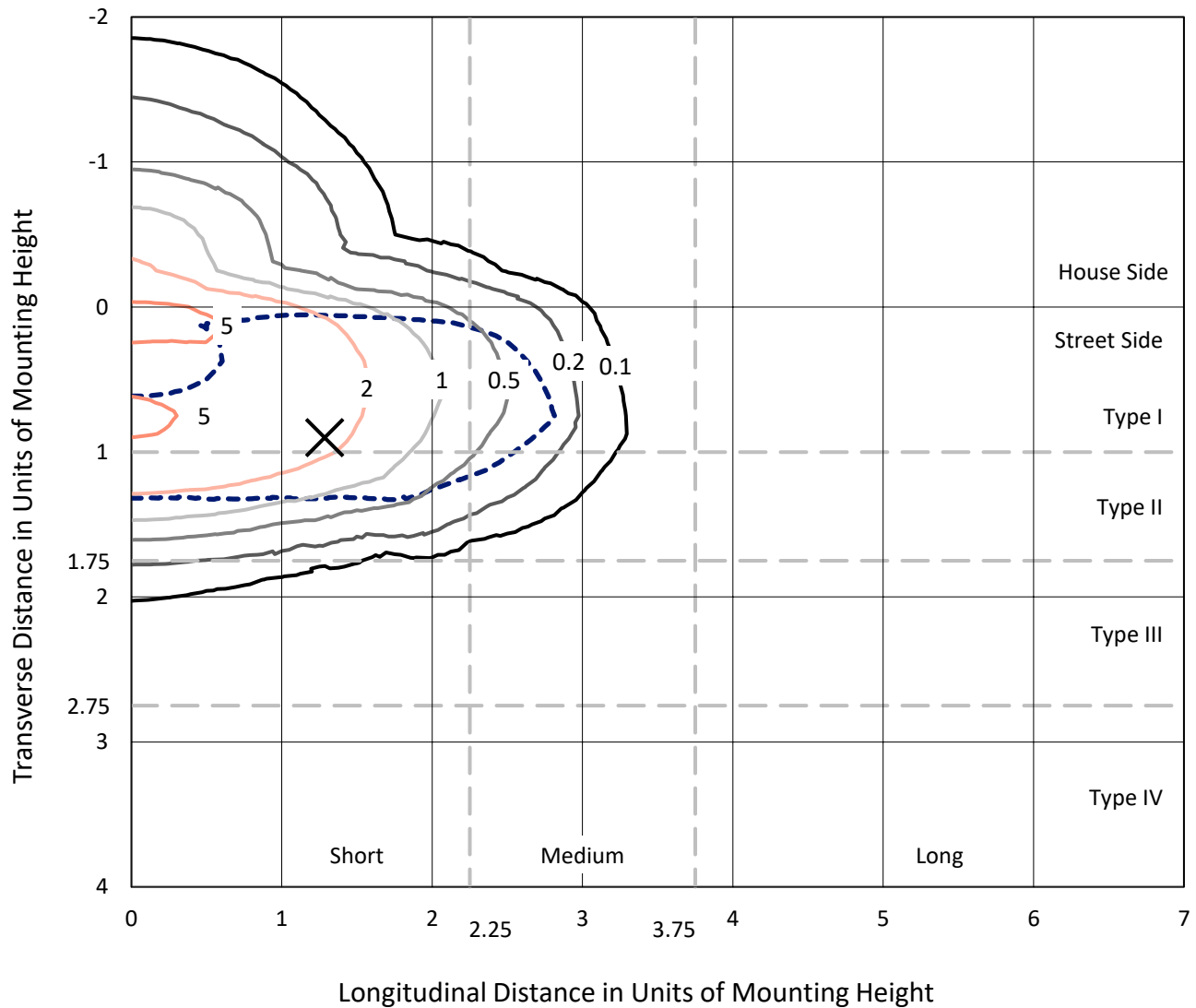


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

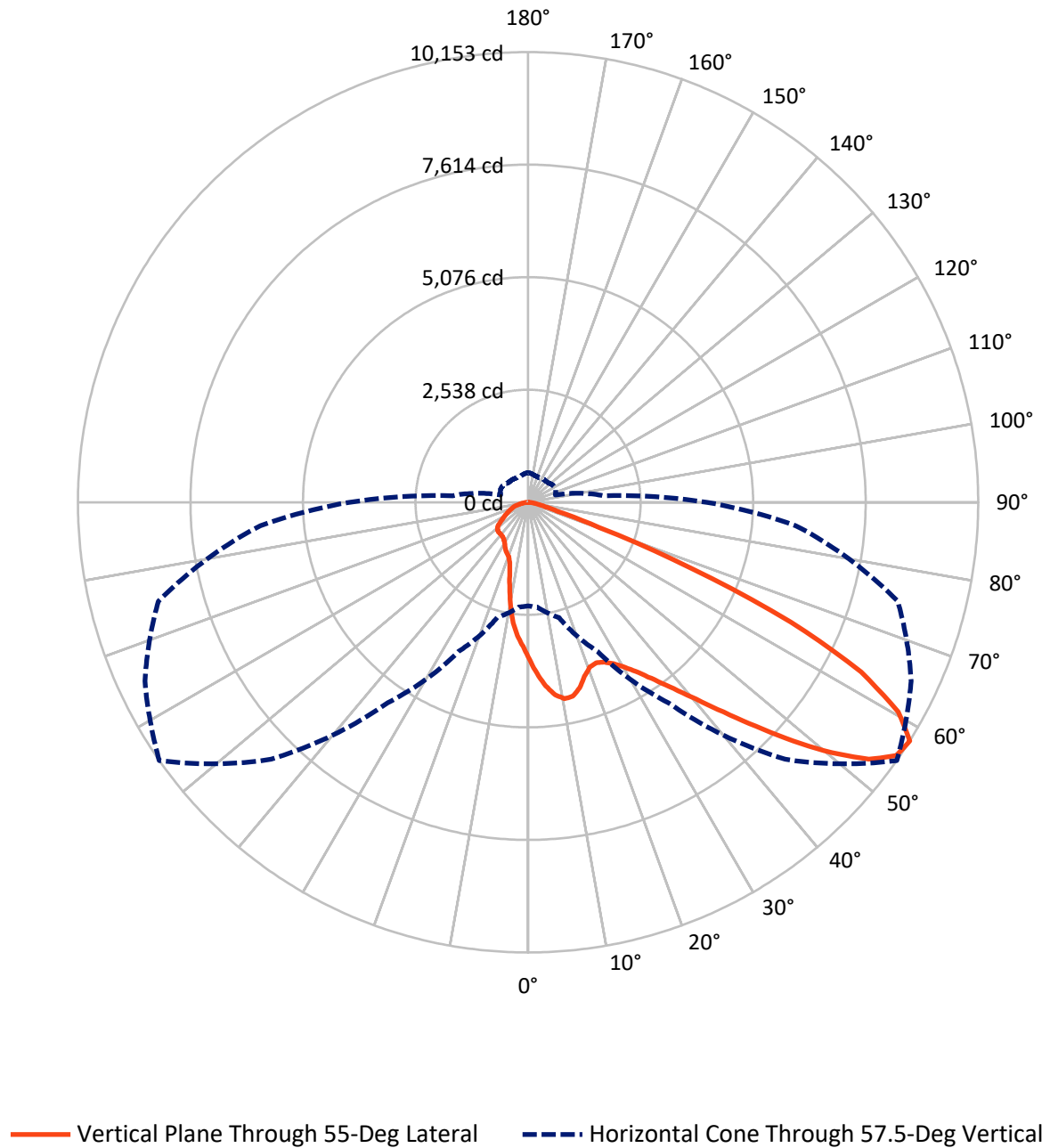


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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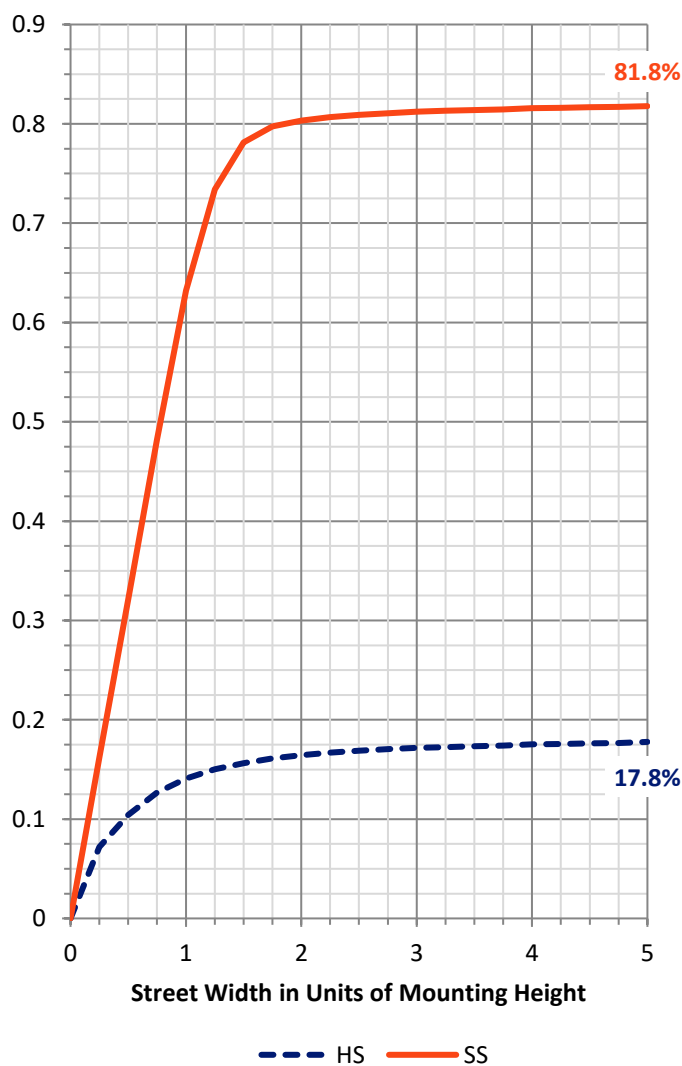
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.4	0.0	2556.4
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11571.6	0.0	11571.6
	% Fixture	81.9	0.0	81.9
Total	Lumens	14128.0	0.0	14128.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	2.3
10°-20°	829.1	5.9
20°-30°	1323.1	9.4
30°-40°	2094.7	14.8
40°-50°	3206.2	22.7
50°-60°	3434.1	24.3
60°-70°	2160.4	15.3
70°-80°	638.9	4.5
80°-90°	113.0	0.8
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°	14128.0	100.0
0°-180°	14128.0	100.0

Coefficient of Utilization



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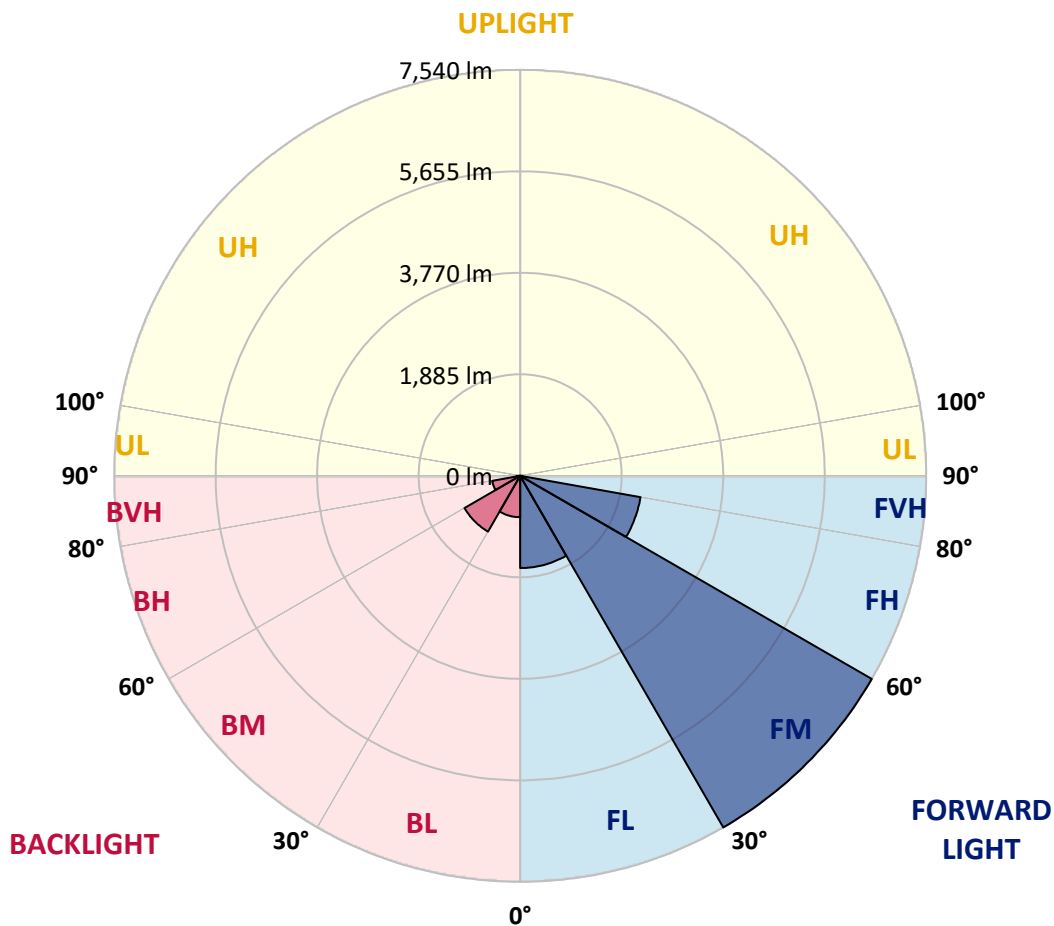
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1712.3	12.1			
FM	(30°-60°)	7540.2	53.4			
FH	(60°-80°)	2271.4	16.1			G2/5000
FVH	(80°-90°)	47.7	0.3			G1/100
BL	(0°-30°)	768.4	5.4	B2/1000		
BM	(30°-60°)	1194.8	8.5	B2/2500		
BH	(60°-80°)	528.0	3.7	B2/1000		G2/1000
BVH	(80°-90°)	65.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0
2.5°	4061.5	4058.6	4074.6	4019.9	3982.6	3932.2	3865.8	3781.0	3689.7	3593.3	3551.7
5°	4427.4	4401.8	4418.6	4377.7	4336.8	4260.9	4162.3	4024.2	3855.5	3663.4	3561.2
7.5°	4369.7	4352.2	4395.3	4431.8	4462.5	4453.0	4380.7	4236.0	4018.4	3739.4	3591.1
10°	3904.5	3884.7	3945.4	4071.7	4257.2	4418.6	4506.3	4416.4	4184.9	3822.7	3620.4
12.5°	3494.0	3484.5	3524.7	3626.9	3832.9	4142.6	4490.2	4574.2	4358.0	3921.3	3659.8
15°	3318.7	3307.0	3332.6	3384.5	3515.9	3804.4	4344.1	4682.3	4528.2	4035.2	3722.6
17.5°	3280.0	3266.9	3277.8	3304.8	3389.6	3609.4	4123.6	4735.6	4705.7	4162.3	3775.2
20°	3351.6	3340.6	3342.1	3340.6	3399.8	3574.3	3970.2	4715.2	4860.5	4279.1	3826.3
22.5°	3524.7	3506.4	3507.2	3468.4	3500.6	3635.7	3930.0	4660.4	4998.5	4381.4	3865.0
25°	3806.6	3773.7	3780.3	3681.7	3672.9	3773.0	3992.8	4618.0	5135.8	4463.2	3872.3
27.5°	4192.2	4155.0	4135.3	3988.5	3918.3	3968.0	4120.6	4632.6	5265.8	4534.0	3854.1
30°	4674.3	4629.0	4588.8	4380.7	4253.6	4235.3	4319.3	4729.0	5419.2	4608.5	3822.7
32.5°	5265.1	5212.5	5139.5	4863.4	4684.5	4588.8	4576.4	4900.7	5598.9	4703.5	3806.6
35°	5968.4	5899.8	5796.1	5438.9	5212.5	5016.8	4915.3	5148.3	5845.0	4846.6	3824.9
37.5°	6692.9	6615.5	6520.6	6095.5	5817.3	5528.8	5328.7	5484.2	6172.9	5040.9	3873.1
40°	7361.2	7274.3	7185.9	6807.6	6508.9	6161.3	5834.8	5909.3	6573.9	5273.1	3954.9
42.5°	7755.6	7691.3	7657.7	7453.2	7222.5	6869.7	6464.3	6413.2	7024.5	5540.5	4048.3
45°	7738.1	7711.8	7815.5	7900.2	7845.4	7649.7	7202.0	6970.5	7476.6	5772.0	4134.5
47.5°	7324.7	7342.2	7573.8	8049.9	8259.6	8361.8	8041.9	7517.5	7869.5	5945.1	4173.2
50°	6200.0	6214.6	6750.6	7777.5	8366.2	8942.4	8875.2	8051.4	8174.1	6051.0	4164.5
52.5°	5309.7	5319.2	5549.2	6969.8	8014.2	9234.6	9626.0	8554.6	8396.9	6080.2	4115.5
55°	3999.4	4032.3	4290.1	5468.1	7098.3	9003.1	10083.2	9073.2	8537.8	6083.1	4064.4
57.5°	2336.4	2372.2	2690.6	3711.7	5517.1	8196.0	10152.6	9533.3	8633.5	6059.7	4033.7
60°	1144.5	1159.8	1298.6	1950.8	3402.0	6641.1	9594.6	9756.0	8686.8	6047.3	4032.3
62.5°	771.3	769.1	774.9	962.6	1676.2	4266.7	8431.9	9366.0	8658.3	5999.8	4017.7
65°	663.2	655.1	633.2	675.6	868.4	1951.5	6514.7	8201.9	8441.4	5880.8	3917.6
67.5°	573.3	574.1	574.8	561.6	620.1	900.5	3981.2	6460.7	7662.9	5317.0	3532.0
70°	474.7	481.3	484.2	484.2	505.4	590.9	1699.5	4428.1	6044.4	4168.9	2844.7
72.5°	432.4	418.5	420.0	412.6	412.6	449.9	684.3	2510.2	3808.1	2345.2	1736.0
75°	352.8	361.5	363.0	357.9	341.1	343.3	406.1	1053.2	1629.4	972.8	858.2
77.5°	304.6	304.6	307.5	303.8	290.7	257.1	271.0	408.3	554.3	398.8	428.7
80°	244.7	243.9	256.4	263.7	243.2	189.9	173.1	225.7	246.1	175.3	222.8
82.5°	119.0	126.4	176.0	200.8	184.8	137.3	105.9	140.2	131.5	77.4	100.1
85°	69.4	65.7	78.9	111.7	105.9	76.0	51.1	73.0	68.7	39.4	40.2
87.5°	21.9	20.4	16.1	38.0	30.7	21.2	13.9	21.2	19.0	8.8	8.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0	3540.0
2.5°	3499.8	3413.7	3328.2	3250.1	3202.6	3171.9	3141.2	3106.9	3093.8	3074.1
5°	3464.8	3298.3	3150.0	3022.2	2906.1	2814.8	2722.8	2648.3	2614.7	2637.3
7.5°	3444.3	3203.3	2974.7	2740.3	2514.6	2334.2	2177.2	2066.9	2017.2	2029.6
10°	3426.1	3096.0	2747.6	2377.3	2053.0	1829.5	1668.9	1584.9	1553.5	1560.0
12.5°	3409.3	2975.5	2473.7	1986.6	1641.8	1494.3	1448.3	1449.0	1454.9	1459.2
15°	3406.4	2830.1	2167.7	1644.8	1419.8	1410.3	1460.0	1491.4	1508.2	1513.3
17.5°	3402.0	2656.3	1855.8	1411.8	1365.8	1430.0	1476.0	1496.5	1509.6	1510.4
20°	3384.5	2435.7	1568.1	1300.8	1354.1	1409.6	1438.1	1454.1	1465.1	1468.7
22.5°	3330.4	2190.3	1343.8	1251.1	1307.3	1351.9	1385.5	1403.7	1410.3	1414.7
25°	3233.3	1915.7	1189.0	1203.6	1242.3	1298.6	1325.6	1329.2	1327.1	1333.6
27.5°	3106.2	1621.4	1092.6	1139.3	1189.0	1237.2	1251.8	1249.6	1245.3	1252.6
30°	2952.8	1357.0	1031.3	1067.0	1135.0	1178.8	1191.9	1186.8	1178.1	1186.1
32.5°	2790.7	1140.8	980.9	1016.7	1090.4	1133.5	1146.7	1141.5	1135.0	1141.5
35°	2639.5	989.6	934.1	983.1	1055.4	1097.7	1114.5	1115.2	1115.2	1123.3
37.5°	2500.7	901.3	895.4	961.9	1031.3	1069.2	1093.3	1094.8	1063.4	1065.6
40°	2372.2	864.0	877.9	948.0	1007.9	1044.4	1045.9	964.1	906.4	904.9
42.5°	2267.0	856.7	883.0	946.5	991.1	992.5	889.6	826.0	810.0	810.7
45°	2168.4	854.5	894.7	946.5	966.3	857.4	788.1	771.3	772.7	778.6
47.5°	2058.1	845.7	896.9	933.4	894.7	762.5	742.0	734.7	731.8	733.3
50°	1937.6	814.3	869.1	907.1	772.0	721.6	696.0	693.8	697.5	699.7
52.5°	1810.5	763.2	821.6	859.6	715.7	685.8	657.3	662.4	678.5	683.6
55°	1727.3	703.3	758.8	764.7	676.3	652.2	628.1	639.8	669.7	679.2
57.5°	1705.4	639.8	687.3	680.7	625.9	623.0	608.4	618.6	656.6	670.5
60°	1698.8	582.8	617.1	612.0	577.0	590.9	587.2	592.3	605.5	609.8
62.5°	1647.7	537.5	554.3	547.0	533.2	557.3	566.0	555.1	565.3	570.4
65°	1517.7	501.0	493.0	487.9	493.7	515.6	533.2	511.2	520.7	535.3
67.5°	1302.9	451.4	429.4	435.3	453.5	465.2	487.9	463.0	471.1	495.9
70°	1053.9	388.5	368.8	385.6	403.2	427.3	430.9	414.1	433.1	460.9
72.5°	745.7	325.0	311.1	345.5	351.3	382.7	374.7	366.6	392.9	402.4
75°	517.1	262.2	254.2	280.5	301.6	328.7	322.8	332.3	387.8	392.2
77.5°	327.2	203.8	198.7	215.5	244.7	274.6	284.1	392.2	662.4	688.7
80°	189.9	151.9	146.1	159.2	184.8	212.5	273.9	481.3	436.8	431.6
82.5°	105.9	104.4	97.1	100.8	123.4	153.4	387.1	338.9	275.3	284.1
85°	49.7	61.3	52.6	50.4	69.4	179.7	258.5	193.5	128.5	125.6
87.5°	13.1	11.7	11.7	13.1	29.2	154.8	103.0	82.5	48.9	47.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)