

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: P950922

Luminaire Tested: **GALN-SB5B-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950922
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22495 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 182.7
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

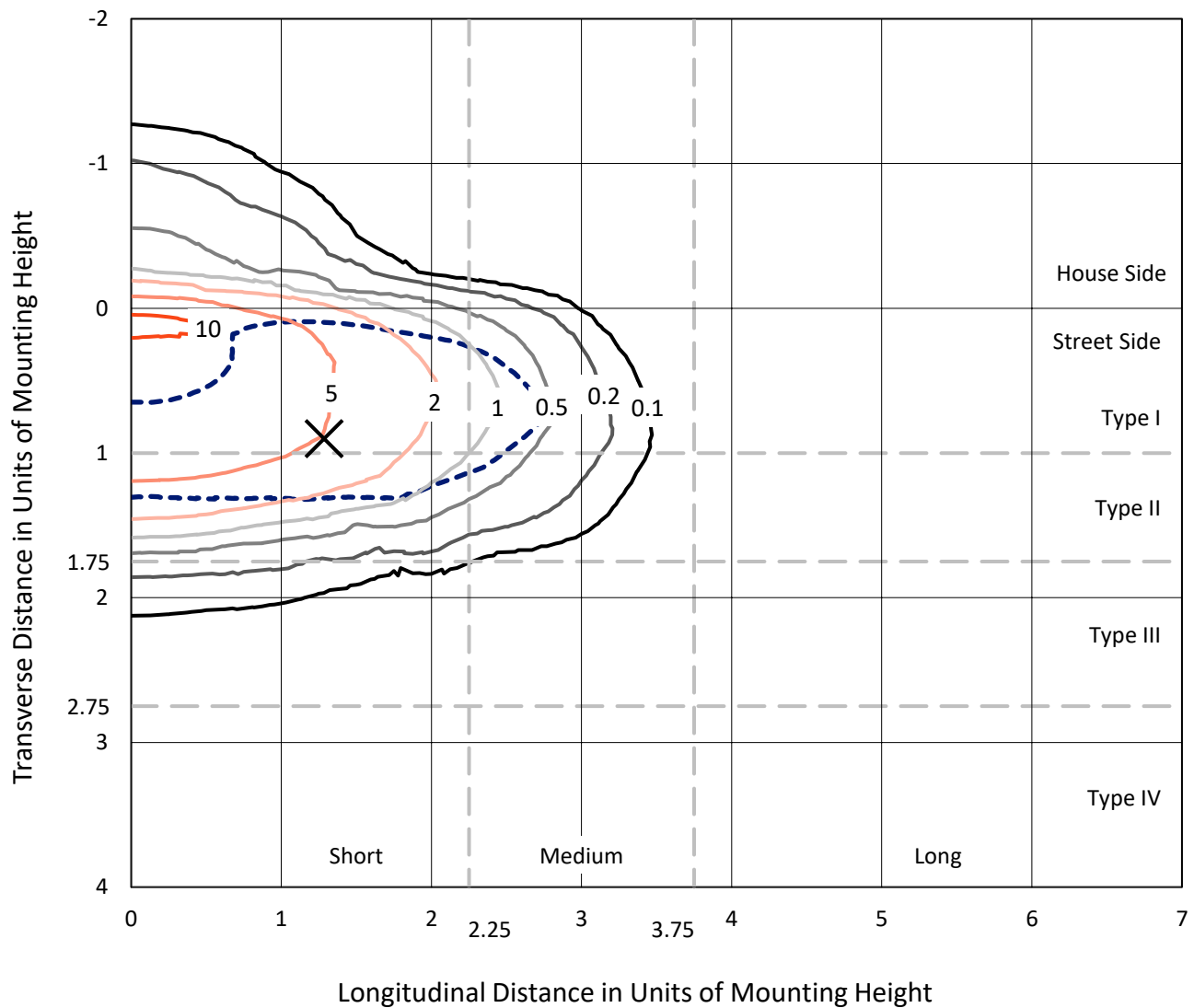


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Iso-Footcandle Lines of Horizontal Illumination

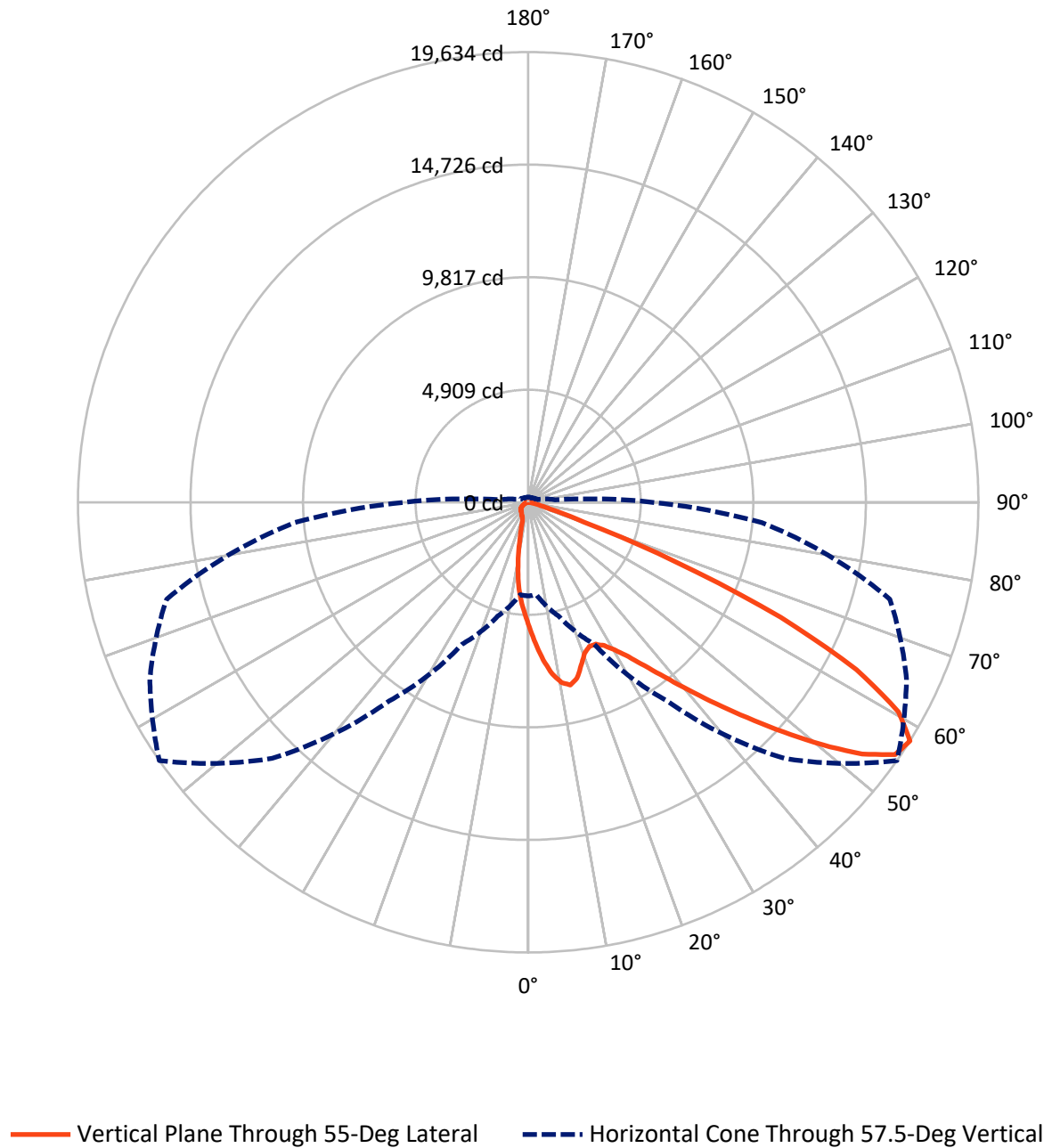
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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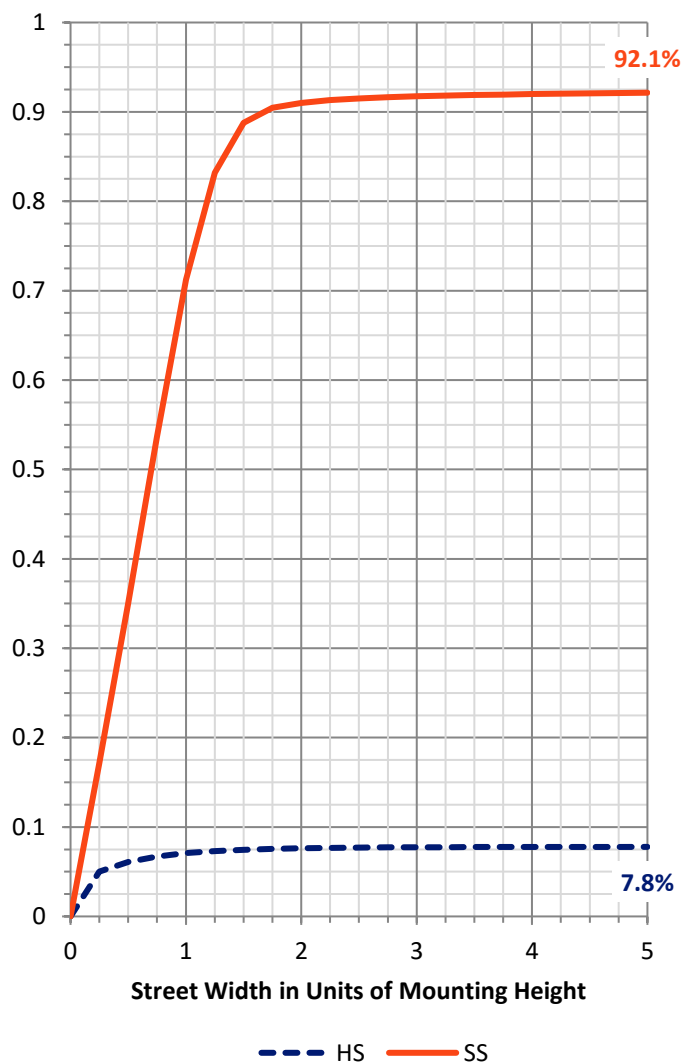
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1756.8	0.0	1756.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	20738.2	0.0	20738.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	22495.0	0.0	22495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.4	2.2
10°-20°	1218.3	5.4
20°-30°	1949.3	8.7
30°-40°	3299.3	14.7
40°-50°	5416.7	24.1
50°-60°	5953.3	26.5
60°-70°	3414.8	15.2
70°-80°	697.8	3.1
80°-90°	41.2	0.2
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°	22495.0	100.0
0°-180°	22495.0	100.0

Coefficient of Utilization



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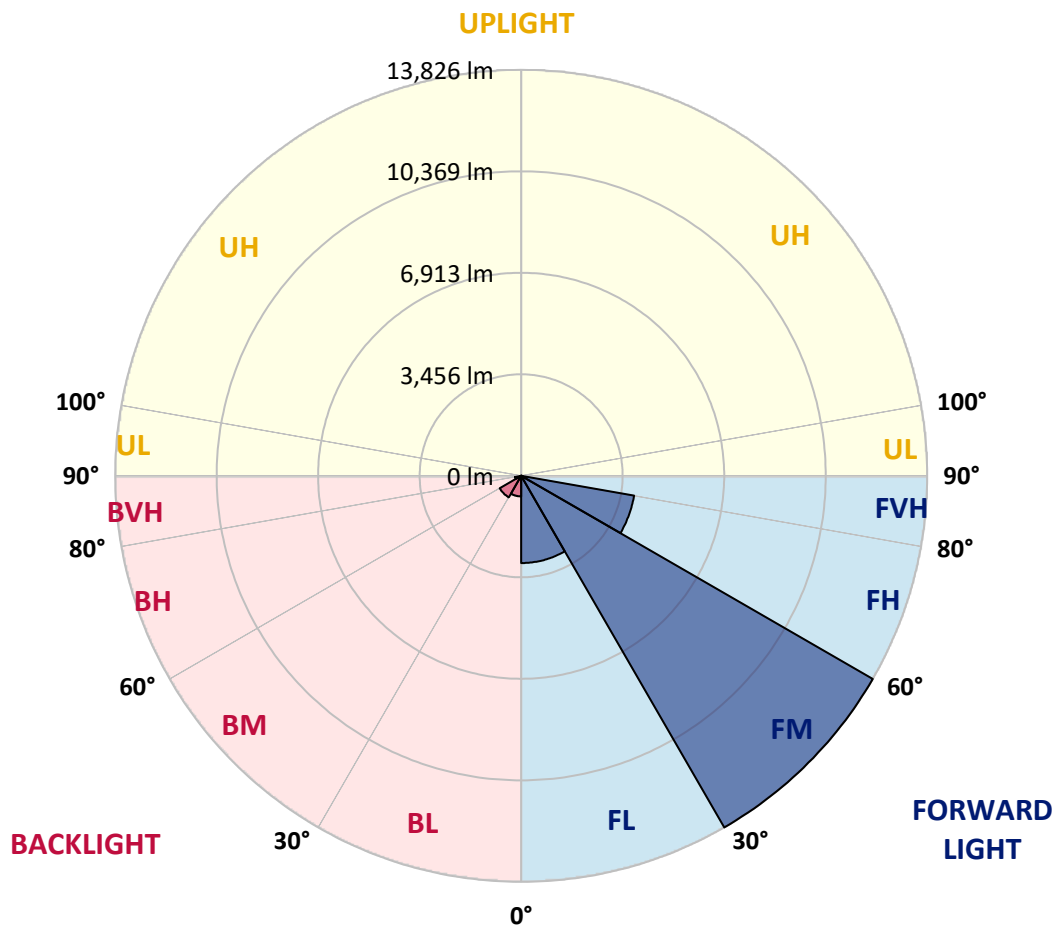
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2970.6	13.2			
FM	(30°-60°)	13825.6	61.5			
FH	(60°-80°)	3903.7	17.4			G2/5000
FVH	(80°-90°)	38.4	0.2			G1/100
BL	(0°-30°)	701.3	3.1	B2/1000		
BM	(30°-60°)	843.7	3.8	B1/1000		
BH	(60°-80°)	208.9	0.9	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
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°	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7
2.5°	6726.0	6641.4	6628.9	6612.2	6451.3	6330.7	6155.9	5964.5	5749.5	5530.3	5433.2
5°	7770.5	7703.9	7691.4	7613.7	7430.6	7225.3	6914.6	6522.1	6121.2	5649.6	5447.1
7.5°	7973.0	7960.5	8017.4	8014.6	7989.6	7827.3	7565.2	7097.7	6495.7	5796.6	5483.2
10°	7070.0	7101.9	7271.1	7419.5	7820.4	8053.4	7996.6	7611.0	6881.3	5964.5	5523.4
12.5°	6247.4	6210.0	6330.7	6498.5	6964.6	7658.1	8175.5	8039.6	7322.4	6154.5	5583.0
15°	5731.4	5716.2	5784.2	5861.8	6216.9	6916.0	7967.4	8387.7	7746.9	6379.2	5673.2
17.5°	5566.4	5553.9	5574.7	5594.1	5824.4	6365.3	7472.2	8601.3	8153.3	6635.8	5773.1
20°	5700.9	5684.3	5681.5	5666.3	5762.0	6130.9	7024.2	8616.6	8518.1	6868.9	5859.1
22.5°	6093.5	6074.1	6006.1	5945.1	5953.4	6162.8	6824.5	8464.0	8792.8	7086.6	5913.2
25°	6805.1	6773.2	6631.7	6426.4	6296.0	6384.8	6855.0	8262.9	9054.9	7257.2	5886.8
27.5°	7695.6	7654.0	7472.2	7167.1	6868.9	6760.7	7075.5	8124.2	9272.7	7387.6	5829.9
30°	8568.0	8513.9	8335.0	8097.8	7662.3	7321.1	7473.6	8185.2	9532.1	7523.6	5755.0
32.5°	9509.9	9458.6	9221.4	8927.3	8566.7	8107.5	8018.8	8483.4	9849.7	7713.6	5702.3
35°	10701.4	10620.9	10283.9	9883.0	9500.2	9035.5	8756.7	8998.0	10272.8	8003.5	5731.4
37.5°	12058.0	11949.8	11586.3	11032.9	10533.5	10013.4	9655.5	9705.5	10892.8	8391.9	5821.6
40°	13336.9	13238.4	12902.7	12381.1	11754.2	11123.1	10741.6	10630.6	11748.6	8864.9	5979.7
42.5°	14103.9	14015.1	13873.7	13653.1	13124.6	12481.0	11999.7	11759.7	12761.2	9430.8	6172.5
45°	14146.9	14069.2	14259.3	14515.9	14411.8	13983.2	13396.5	12956.8	13777.9	9962.1	6372.3
47.5°	13458.9	13406.2	13983.2	14879.3	15325.9	15506.3	14965.3	14054.0	14617.1	10343.5	6454.1
50°	11583.6	11564.2	12751.5	14396.6	15674.1	16840.6	16620.1	15074.9	15267.7	10540.5	6376.4
52.5°	10043.9	9973.2	10665.3	12851.4	15167.8	17542.5	18237.4	16076.4	15722.6	10577.9	6194.7
55°	7617.9	7555.5	8423.8	10265.8	13535.2	17292.8	19420.6	17109.7	16048.6	10482.2	5868.8
57.5°	4086.4	4047.5	5144.7	6832.8	10580.7	15794.8	19634.2	18202.8	16323.3	10228.4	5412.4
60°	1591.0	1584.1	1994.6	3315.1	6430.5	12850.0	18556.5	18858.9	16495.3	9916.3	5031.0
62.5°	962.6	983.4	1050.0	1488.3	2840.8	7982.7	16072.2	18112.6	16610.4	9630.6	4716.1
65°	796.2	797.6	805.9	1022.3	1360.7	3340.1	12099.6	15657.5	16326.0	9121.5	4269.5
67.5°	682.4	694.9	726.8	811.4	959.9	1464.8	6966.0	12128.7	14596.3	7936.9	3573.1
70°	538.2	554.8	595.1	667.2	740.7	916.9	2574.4	8070.1	11150.8	5982.5	2702.0
72.5°	453.6	452.2	473.0	542.4	588.1	645.0	990.4	4521.9	6480.5	2856.0	1337.2
75°	350.9	364.8	391.2	453.6	481.3	467.4	536.8	1652.0	2322.0	865.5	455.0
77.5°	274.6	285.7	309.3	370.4	398.1	331.5	309.3	590.9	746.3	310.7	205.3
80°	123.5	133.2	210.8	273.3	324.6	228.9	167.8	302.4	331.5	141.5	104.0
82.5°	22.2	37.5	123.5	144.3	166.5	148.4	87.4	156.7	162.3	56.9	36.1
85°	1.4	2.8	43.0	52.7	66.6	48.5	26.4	62.4	54.1	19.4	13.9
87.5°	0.0	0.0	0.0	1.4	1.4	6.9	8.3	11.1	8.3	6.9	5.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7	5420.7
2.5°	5333.4	5136.4	4945.0	4788.2	4696.7	4541.3	4438.7	4422.0	4379.0	4416.5
5°	5230.7	4878.4	4521.9	4202.9	3940.7	3602.3	3349.8	3243.0	3150.1	3182.0
7.5°	5182.2	4625.9	4071.1	3526.0	2965.6	2424.6	2022.4	1854.5	1726.9	1745.0
10°	5117.0	4363.8	3494.1	2661.8	1911.4	1377.4	1100.0	997.3	940.4	941.8
12.5°	5067.0	4050.3	2824.1	1804.6	1163.8	879.4	793.4	768.4	751.8	753.2
15°	5042.1	3681.3	2162.5	1202.6	832.3	744.9	724.1	713.0	701.9	700.5
17.5°	5000.5	3270.8	1582.7	878.0	728.2	697.7	679.7	667.2	653.3	650.5
20°	4938.0	2804.7	1156.8	742.1	682.4	658.9	633.9	617.3	600.6	597.8
22.5°	4822.9	2312.3	889.1	686.6	649.2	622.8	592.3	572.9	556.2	553.4
25°	4609.3	1850.4	749.0	651.9	620.0	588.1	554.8	528.5	513.2	510.4
27.5°	4338.8	1453.7	679.7	620.0	582.6	553.4	516.0	491.0	477.2	474.4
30°	4019.8	1119.4	639.4	584.0	538.2	513.2	479.9	459.1	450.8	450.8
32.5°	3675.8	894.7	622.8	547.9	499.4	471.6	445.3	436.9	434.2	432.8
35°	3352.6	776.8	614.5	518.8	464.7	438.3	427.2	428.6	434.2	434.2
37.5°	3065.5	739.3	610.3	498.0	434.2	410.6	417.5	430.0	424.4	424.4
40°	2806.1	743.5	607.5	482.7	409.2	395.3	409.2	399.5	385.6	384.2
42.5°	2607.7	778.2	602.0	470.2	393.9	384.2	378.7	363.4	362.0	364.8
45°	2463.5	808.7	600.6	464.7	377.3	359.3	352.3	337.1	364.8	371.7
47.5°	2292.9	808.7	600.6	445.3	349.5	342.6	331.5	314.9	342.6	349.5
50°	2072.3	757.4	577.0	423.1	327.4	323.2	303.8	283.0	277.4	281.6
52.5°	1793.5	664.4	517.4	392.5	305.2	296.8	273.3	258.0	253.8	253.8
55°	1475.9	556.2	436.9	348.2	281.6	266.3	249.7	242.7	238.6	235.8
57.5°	1199.8	456.4	350.9	309.3	259.4	240.0	234.4	226.1	219.2	215.0
60°	984.8	359.3	289.9	274.6	237.2	219.2	217.8	206.7	188.6	185.9
62.5°	760.1	263.5	244.1	238.6	215.0	199.7	197.0	174.8	147.0	141.5
65°	536.8	205.3	197.0	209.5	191.4	177.5	170.6	137.3	108.2	104.0
67.5°	377.3	172.0	155.4	183.1	166.5	148.4	144.3	116.5	90.2	87.4
70°	269.1	140.1	127.6	156.7	133.2	130.4	122.1	97.1	73.5	70.7
72.5°	190.0	106.8	98.5	135.9	91.5	112.4	99.9	74.9	55.5	52.7
75°	140.1	76.3	69.4	79.1	66.6	84.6	70.7	49.9	34.7	33.3
77.5°	102.6	48.5	41.6	38.8	38.8	52.7	38.8	20.8	15.3	13.9
80°	72.1	22.2	19.4	16.6	15.3	12.5	5.5	2.8	1.4	1.4
82.5°	43.0	9.7	9.7	6.9	4.2	0.0	0.0	0.0	0.0	0.0
85°	9.7	4.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	1.4	0.0	0.0	0.0	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

(END OF REPORT)