

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: P948423

Luminaire Tested: **GALN-SB3C-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948423
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-SB3C-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 17770 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

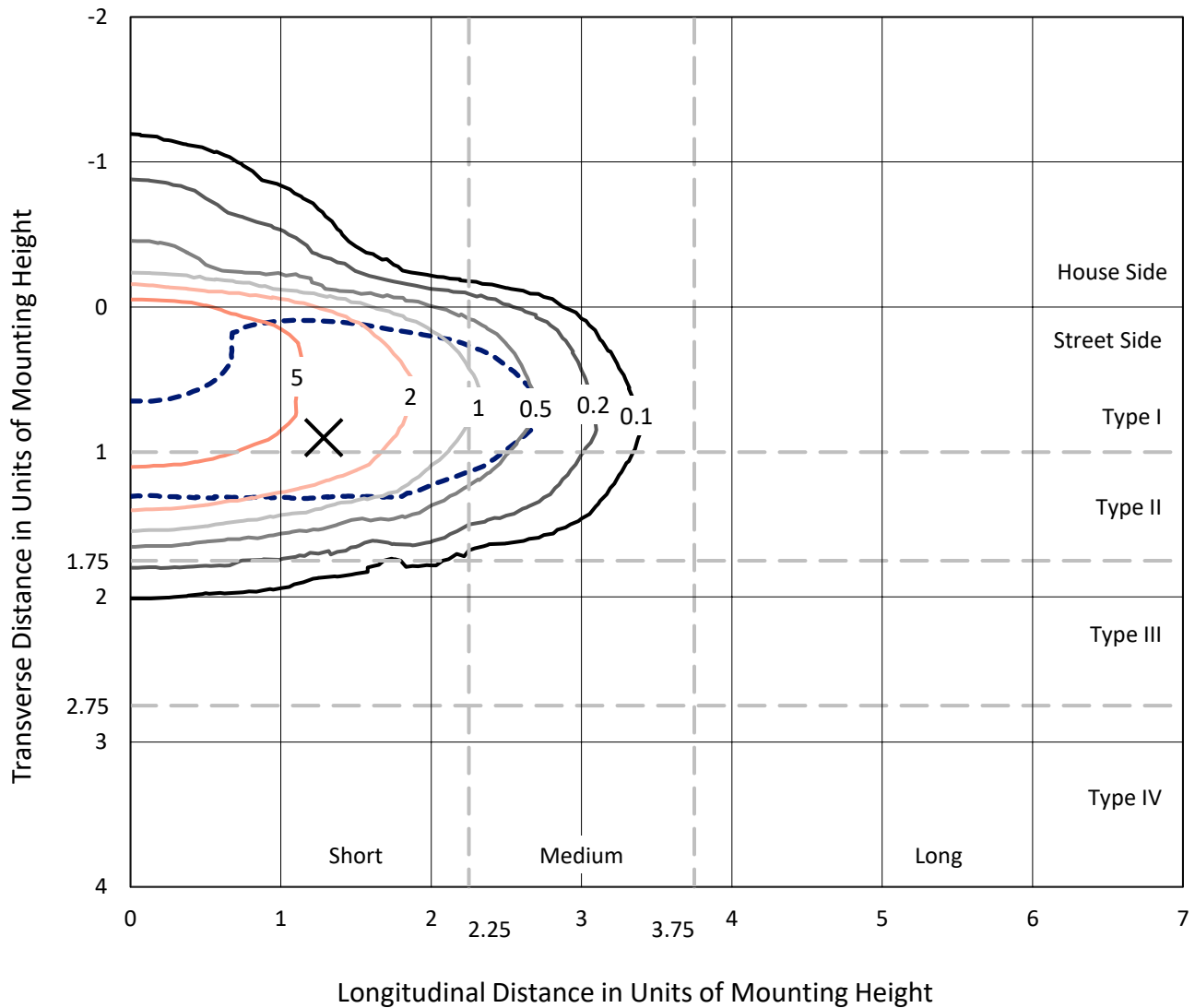
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

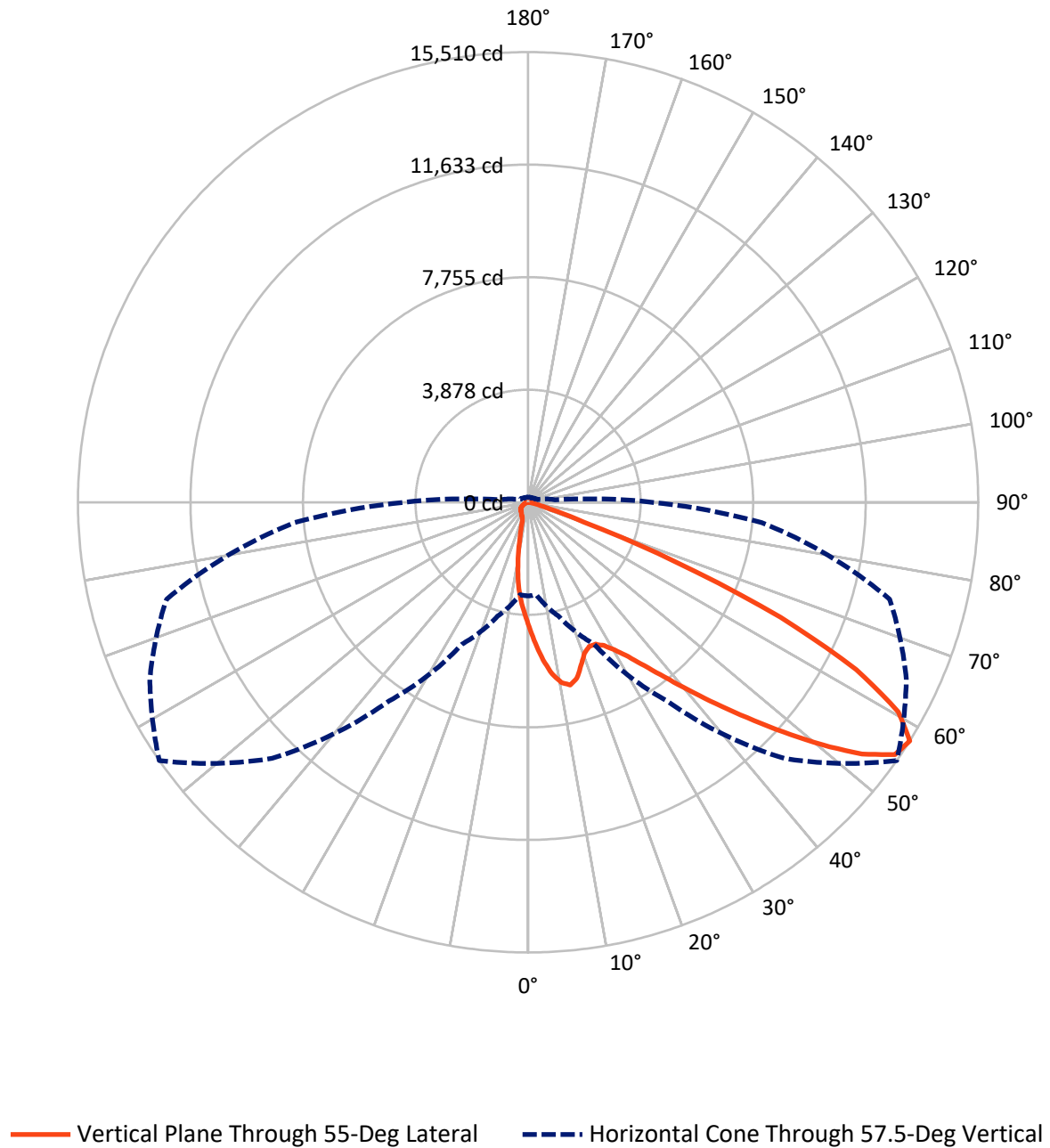
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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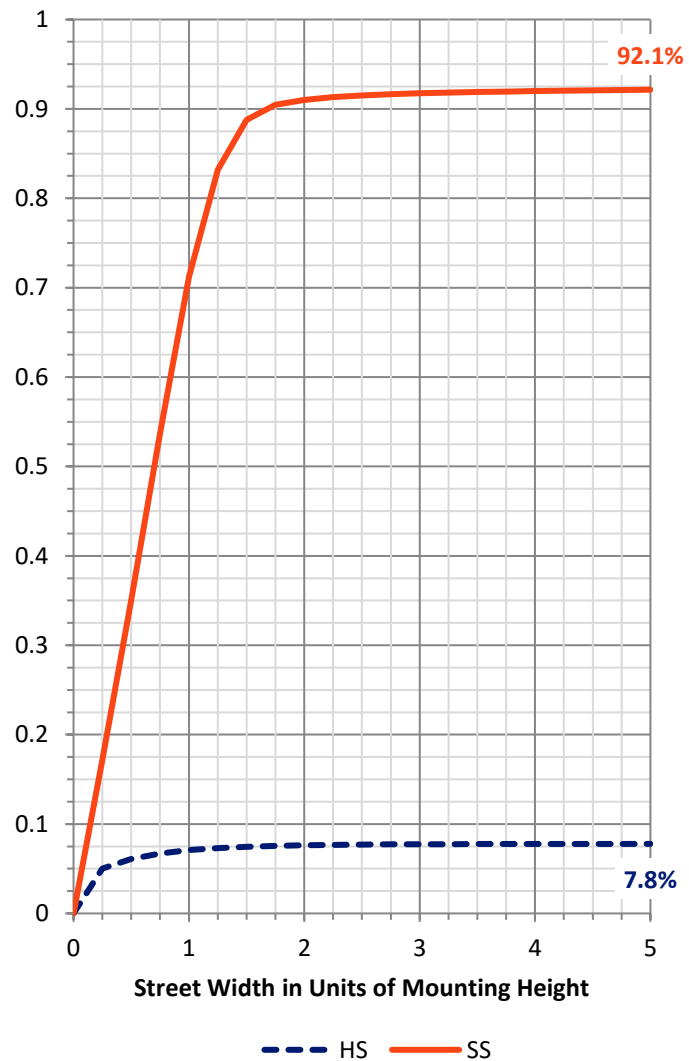
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.8	0.0	1387.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	16382.2	0.0	16382.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	17770.0	0.0	17770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	398.4	2.2
10°-20°	962.4	5.4
20°-30°	1539.8	8.7
30°-40°	2606.3	14.7
40°-50°	4278.9	24.1
50°-60°	4702.9	26.5
60°-70°	2697.6	15.2
70°-80°	551.2	3.1
80°-90°	32.5	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°	17770.0	100.0
0°-180°	17770.0	100.0

Coefficient of Utilization



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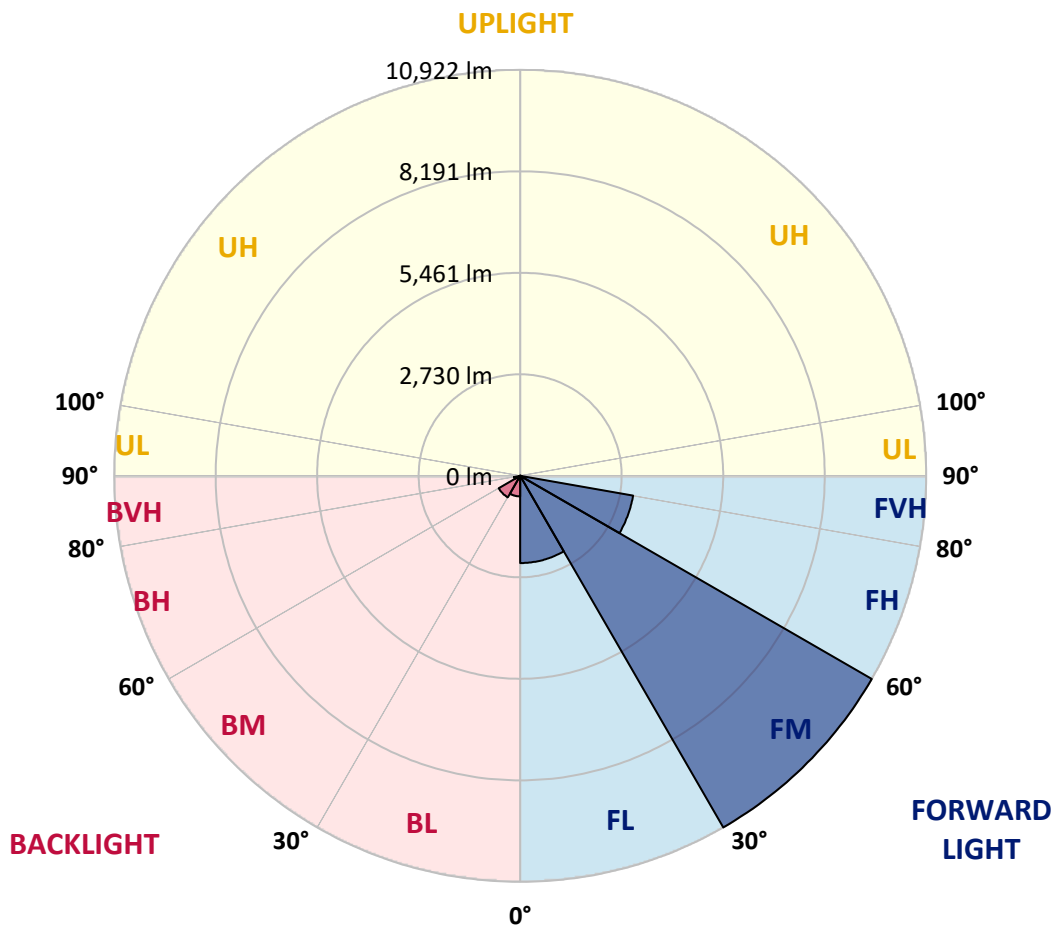
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2346.6	13.2			
FM	(30°-60°)	10921.6	61.5			
FH	(60°-80°)	3083.7	17.4			G2/5000
FVH	(80°-90°)	30.3	0.2			G1/100
BL	(0°-30°)	554.0	3.1	B2/1000		
BM	(30°-60°)	666.5	3.8	B1/1000		
BH	(60°-80°)	165.1	0.9	B1/500		G1/500
BVH	(80°-90°)	2.2	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°	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1
2.5°	5313.2	5246.4	5236.5	5223.4	5096.3	5000.9	4862.9	4711.7	4541.8	4368.7	4292.0
5°	6138.3	6085.7	6075.9	6014.5	5869.9	5707.7	5462.2	5152.1	4835.5	4462.9	4303.0
7.5°	6298.3	6288.4	6333.3	6331.2	6311.4	6183.2	5976.1	5606.9	5131.3	4579.1	4331.4
10°	5585.0	5610.2	5743.8	5861.1	6177.8	6361.8	6316.9	6012.3	5435.9	4711.7	4363.2
12.5°	4935.2	4905.6	5000.9	5133.5	5501.7	6049.6	6458.3	6350.9	5784.4	4861.8	4410.3
15°	4527.6	4515.5	4569.2	4630.6	4911.1	5463.3	6293.9	6625.9	6119.7	5039.3	4481.6
17.5°	4397.2	4387.3	4403.8	4419.1	4601.0	5028.3	5902.7	6794.7	6440.7	5242.0	4560.4
20°	4503.5	4490.3	4488.1	4476.1	4551.7	4843.1	5548.8	6806.7	6728.9	5426.1	4628.4
22.5°	4813.6	4798.2	4744.5	4696.3	4702.9	4868.4	5391.0	6686.2	6945.9	5598.1	4671.1
25°	5375.7	5350.5	5238.7	5076.5	4973.5	5043.7	5415.1	6527.3	7153.0	5732.9	4650.3
27.5°	6079.1	6046.3	5902.7	5661.7	5426.1	5340.6	5589.3	6417.7	7325.0	5835.9	4605.4
30°	6768.4	6725.6	6584.3	6396.9	6052.8	5783.3	5903.8	6465.9	7529.9	5943.3	4546.2
32.5°	7512.4	7471.8	7284.4	7052.1	6767.3	6404.6	6334.4	6701.5	7780.8	6093.4	4504.6
35°	8453.6	8390.0	8123.8	7807.1	7504.7	7137.6	6917.4	7108.0	8115.0	6322.4	4527.6
37.5°	9525.2	9439.8	9152.7	8715.5	8321.0	7910.1	7627.4	7666.9	8604.8	6629.2	4598.8
40°	10535.5	10457.7	10192.5	9780.5	9285.3	8786.7	8485.4	8397.7	9280.9	7002.8	4723.7
42.5°	11141.4	11071.3	10959.5	10785.3	10367.8	9859.4	9479.2	9289.6	10080.8	7449.9	4876.0
45°	11175.4	11114.0	11264.2	11466.9	11384.7	11046.1	10582.6	10235.3	10883.9	7869.6	5033.8
47.5°	10631.9	10590.3	11046.1	11753.9	12106.8	12249.2	11821.9	11102.0	11546.9	8170.9	5098.5
50°	9150.5	9135.1	10073.1	11372.6	12381.8	13303.3	13129.1	11908.4	12060.8	8326.5	5037.1
52.5°	7934.2	7878.3	8425.1	10152.0	11981.9	13857.8	14406.7	12699.6	12420.2	8356.1	4893.6
55°	6017.8	5968.5	6654.4	8109.5	10692.2	13660.5	15341.4	13515.9	12677.7	8280.5	4636.1
57.5°	3228.0	3197.4	4064.1	5397.6	8358.3	12477.1	15510.1	14379.3	12894.6	8079.9	4275.6
60°	1256.8	1251.3	1575.7	2618.8	5079.8	10150.9	14658.7	14897.6	13030.5	7833.4	3974.2
62.5°	760.4	776.9	829.5	1175.7	2244.1	6306.0	12696.3	14308.1	13121.4	7607.7	3725.5
65°	629.0	630.0	636.6	807.6	1074.9	2638.5	9558.1	12368.7	12896.8	7205.6	3372.7
67.5°	539.1	549.0	574.2	641.0	758.2	1157.1	5502.8	9581.1	11530.4	6269.8	2822.6
70°	425.1	438.3	470.1	527.0	585.1	724.3	2033.7	6375.0	8808.6	4725.9	2134.5
72.5°	358.3	357.2	373.6	428.4	464.6	509.5	782.4	3572.1	5119.3	2256.1	1056.3
75°	277.2	288.2	309.0	358.3	380.2	369.3	424.0	1305.0	1834.3	683.7	359.4
77.5°	217.0	225.7	244.3	292.6	314.5	261.9	244.3	466.8	589.5	245.4	162.2
80°	97.5	105.2	166.6	215.9	256.4	180.8	132.6	238.9	261.9	111.8	82.2
82.5°	17.5	29.6	97.5	114.0	131.5	117.2	69.0	123.8	128.2	44.9	28.5
85°	1.1	2.2	34.0	41.6	52.6	38.4	20.8	49.3	42.7	15.3	11.0
87.5°	0.0	0.0	0.0	1.1	1.1	5.5	6.6	8.8	6.6	5.5	4.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1	4282.1
2.5°	4213.1	4057.5	3906.3	3782.5	3710.2	3587.4	3506.4	3493.2	3459.2	3488.8
5°	4132.0	3853.7	3572.1	3320.1	3113.0	2845.6	2646.2	2561.8	2488.4	2513.6
7.5°	4093.7	3654.3	3216.0	2785.4	2342.7	1915.3	1597.6	1465.0	1364.2	1378.4
10°	4042.2	3447.2	2760.2	2102.7	1509.9	1088.1	868.9	787.8	742.9	744.0
12.5°	4002.7	3199.5	2230.9	1425.6	919.3	694.7	626.8	607.0	593.9	595.0
15°	3983.0	2908.1	1708.3	950.0	657.4	588.4	572.0	563.2	554.4	553.3
17.5°	3950.1	2583.7	1250.2	693.6	575.3	551.2	536.9	527.0	516.1	513.9
20°	3900.8	2215.6	913.8	586.2	539.1	520.5	500.8	487.6	474.5	472.3
22.5°	3809.9	1826.6	702.4	542.4	512.8	492.0	467.9	452.5	439.4	437.2
25°	3641.1	1461.7	591.7	515.0	489.8	464.6	438.3	417.5	405.4	403.2
27.5°	3427.5	1148.3	536.9	489.8	460.2	437.2	407.6	387.9	376.9	374.7
30°	3175.4	884.3	505.1	461.3	425.1	405.4	379.1	362.7	356.1	356.1
32.5°	2903.7	706.7	492.0	432.8	394.5	372.5	351.7	345.2	343.0	341.9
35°	2648.4	613.6	485.4	409.8	367.1	346.3	337.5	338.6	343.0	343.0
37.5°	2421.6	584.0	482.1	393.4	343.0	324.3	329.8	339.7	335.3	335.3
40°	2216.7	587.3	479.9	381.3	323.2	312.3	323.2	315.6	304.6	303.5
42.5°	2060.0	614.7	475.5	371.5	311.2	303.5	299.1	287.1	286.0	288.2
45°	1946.0	638.8	474.5	367.1	298.0	283.8	278.3	266.3	288.2	293.7
47.5°	1811.2	638.8	474.5	351.7	276.1	270.6	261.9	248.7	270.6	276.1
50°	1637.0	598.3	455.8	334.2	258.6	255.3	240.0	223.5	219.1	222.4
52.5°	1416.8	524.9	408.7	310.1	241.1	234.5	215.9	203.8	200.5	200.5
55°	1165.9	439.4	345.2	275.0	222.4	210.4	197.2	191.8	188.5	186.3
57.5°	947.8	360.5	277.2	244.3	204.9	189.6	185.2	178.6	173.1	169.8
60°	778.0	283.8	229.0	217.0	187.4	173.1	172.0	163.3	149.0	146.8
62.5°	600.5	208.2	192.8	188.5	169.8	157.8	155.6	138.1	116.1	111.8
65°	424.0	162.2	155.6	165.5	151.2	140.3	134.8	108.5	85.5	82.2
67.5°	298.0	135.9	122.7	144.6	131.5	117.2	114.0	92.0	71.2	69.0
70°	212.6	110.7	100.8	123.8	105.2	103.0	96.4	76.7	58.1	55.9
72.5°	150.1	84.4	77.8	107.4	72.3	88.8	78.9	59.2	43.8	41.6
75°	110.7	60.3	54.8	62.5	52.6	66.8	55.9	39.4	27.4	26.3
77.5°	81.1	38.4	32.9	30.7	30.7	41.6	30.7	16.4	12.1	11.0
80°	57.0	17.5	15.3	13.1	12.1	9.9	4.4	2.2	1.1	1.1
82.5°	34.0	7.7	7.7	5.5	3.3	0.0	0.0	0.0	0.0	0.0
85°	7.7	3.3	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	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)