

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: P949158

Luminaire Tested: **GALN-SB4A-730-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949158
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-SB4A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA 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: 15328 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 114
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

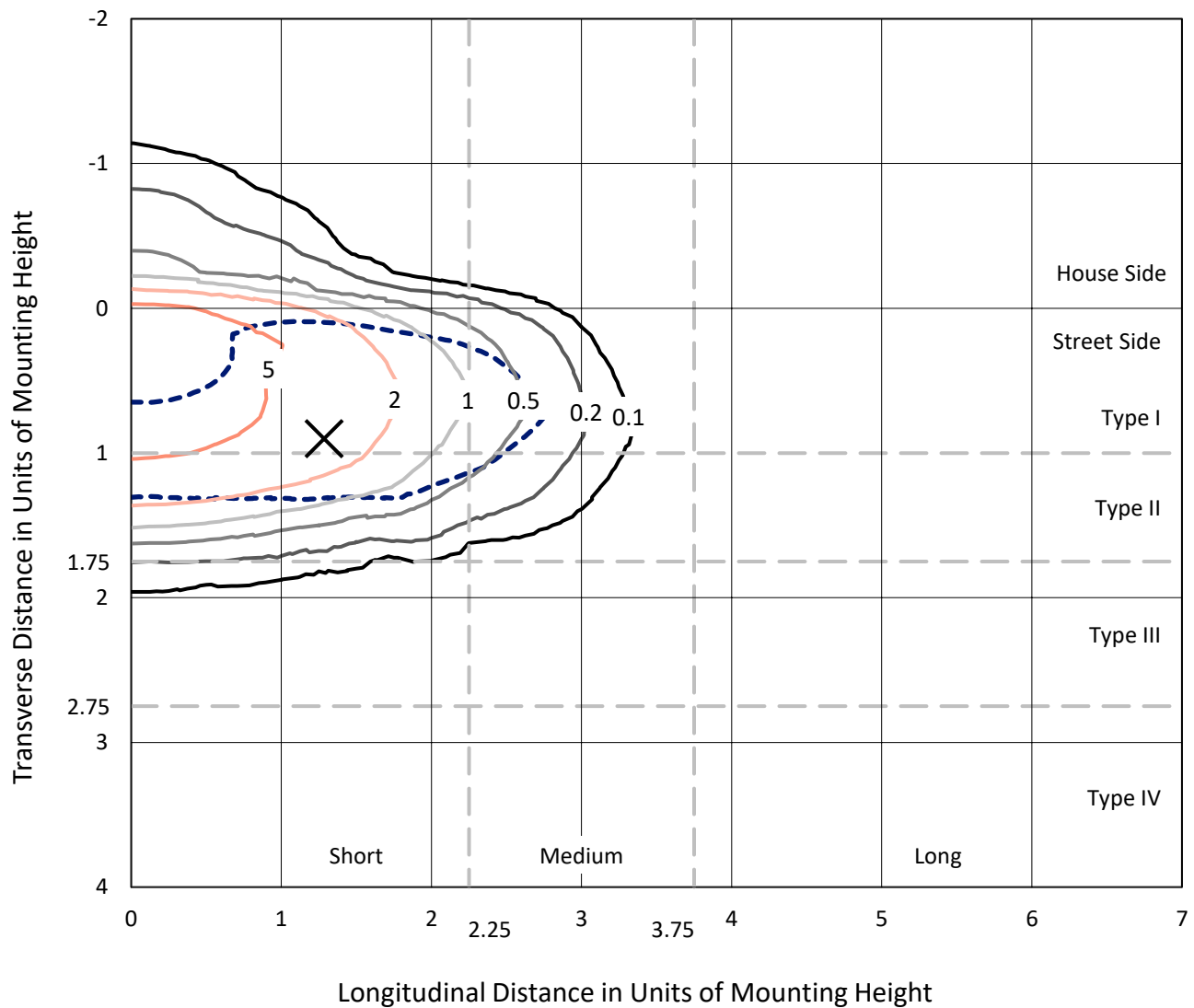


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Iso-Footcandle Lines of Horizontal Illumination

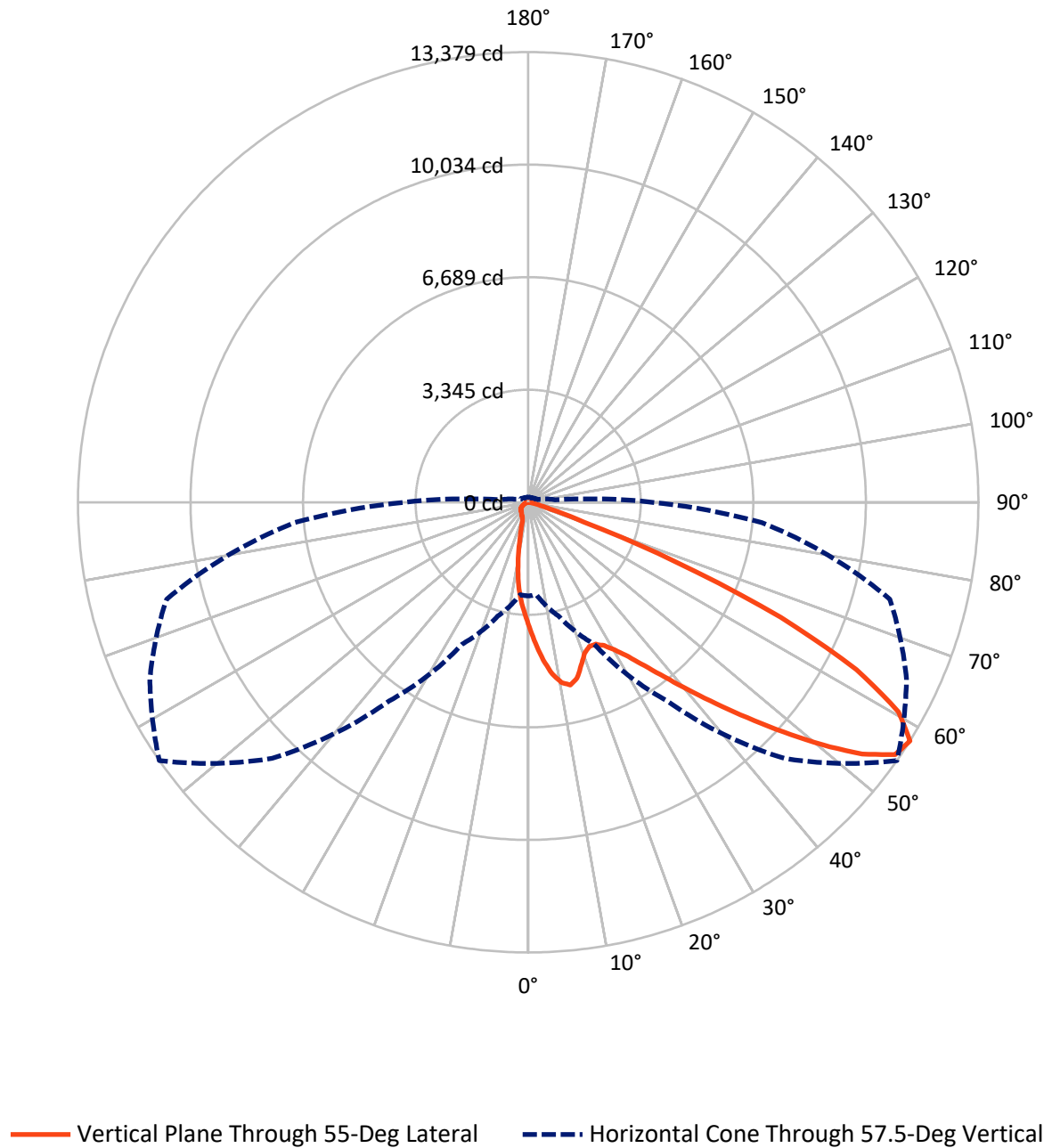
× Max cd
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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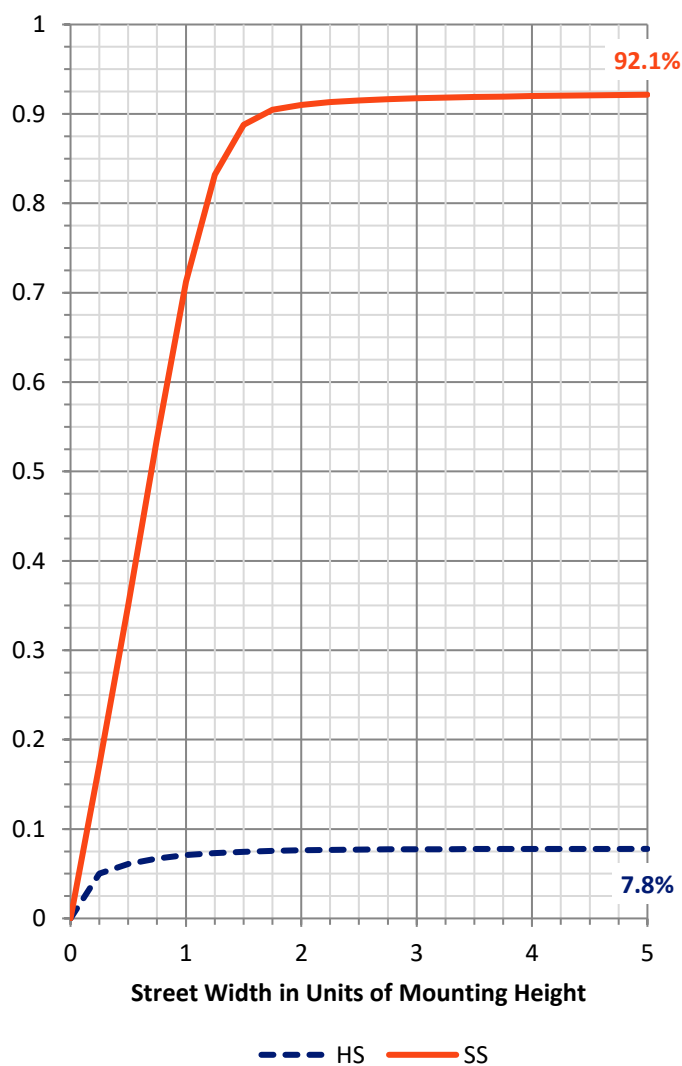
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1197.1	0.0	1197.1
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14130.9	0.0	14130.9
	% Fixture	92.2	0.0	92.2
Total	Lumens	15328.0	0.0	15328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	343.7	2.2
10°-20°	830.1	5.4
20°-30°	1328.2	8.7
30°-40°	2248.1	14.7
40°-50°	3690.9	24.1
50°-60°	4056.6	26.5
60°-70°	2326.9	15.2
70°-80°	475.5	3.1
80°-90°	28.0	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°	15328.0	100.0
0°-180°	15328.0	100.0

Coefficient of Utilization



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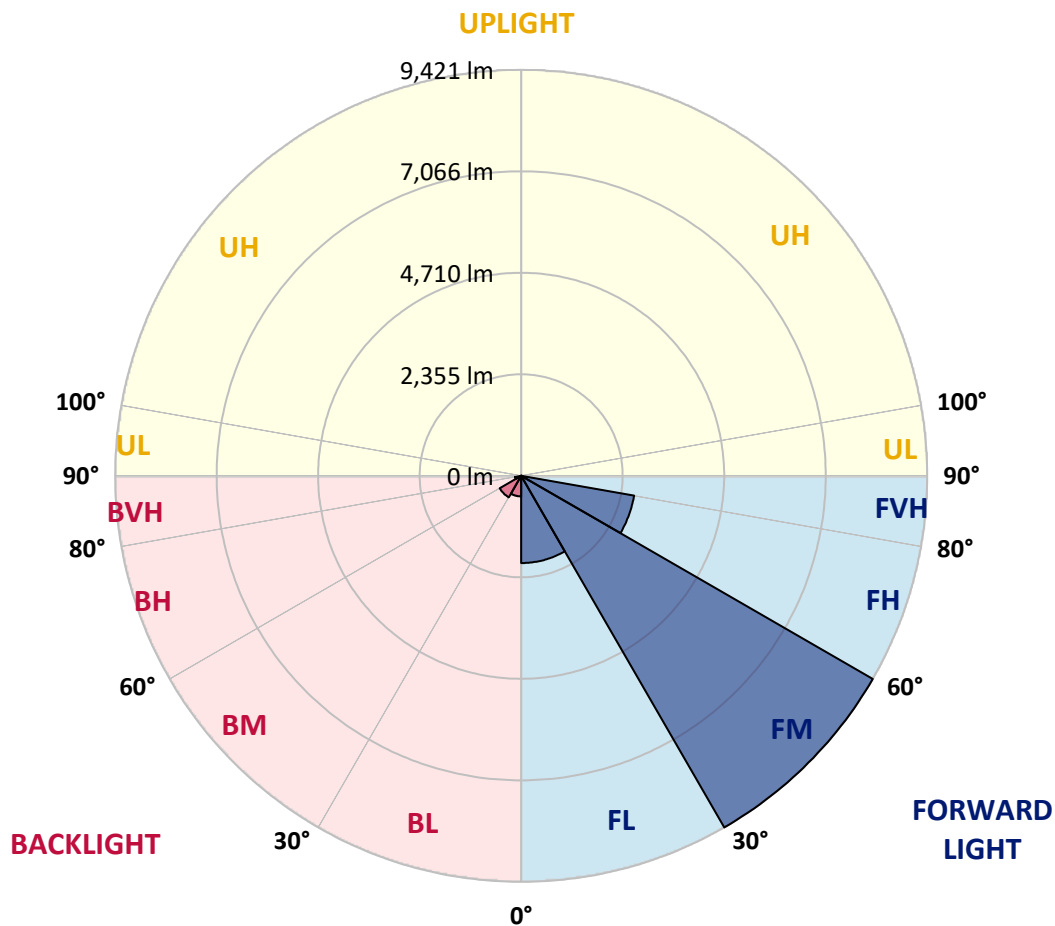
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.2	13.2			
FM	(30°-60°)	9420.7	61.5			
FH	(60°-80°)	2659.9	17.4			G2/5000
FVH	(80°-90°)	26.2	0.2			G1/100
BL	(0°-30°)	477.9	3.1	B1/500		
BM	(30°-60°)	574.9	3.8	B1/1000		
BH	(60°-80°)	142.4	0.9	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7
2.5°	4583.1	4525.4	4516.9	4505.6	4395.9	4313.7	4194.6	4064.2	3917.7	3768.3	3702.2
5°	5294.8	5249.4	5240.9	5188.0	5063.2	4923.3	4711.6	4444.1	4171.0	3849.6	3711.6
7.5°	5432.8	5424.3	5463.0	5461.1	5444.1	5333.5	5154.9	4836.4	4426.2	3949.8	3736.2
10°	4817.5	4839.2	4954.5	5055.6	5328.8	5487.6	5448.8	5186.1	4688.9	4064.2	3763.6
12.5°	4257.0	4231.5	4313.7	4428.1	4745.6	5218.2	5570.8	5478.1	4989.5	4193.7	3804.3
15°	3905.4	3895.0	3941.3	3994.2	4236.2	4712.5	5429.0	5715.4	5278.7	4346.8	3865.7
17.5°	3792.9	3784.4	3798.6	3811.8	3968.7	4337.3	5091.6	5860.9	5555.6	4521.6	3933.7
20°	3884.6	3873.2	3871.4	3861.0	3926.2	4177.6	4786.3	5871.3	5804.2	4680.4	3992.3
22.5°	4152.1	4138.8	4092.5	4050.9	4056.6	4199.3	4650.2	5767.3	5991.3	4828.8	4029.2
25°	4636.9	4615.2	4518.8	4378.9	4290.1	4350.6	4671.0	5630.3	6170.0	4945.1	4011.2
27.5°	5243.7	5215.4	5091.6	4883.6	4680.4	4606.7	4821.2	5535.8	6318.4	5033.9	3972.5
30°	5838.2	5801.4	5679.4	5517.8	5221.0	4988.5	5092.5	5577.4	6495.1	5126.5	3921.5
32.5°	6480.0	6445.0	6283.4	6083.0	5837.3	5524.4	5463.9	5780.6	6711.6	5256.0	3885.5
35°	7291.9	7237.1	7007.4	6734.2	6473.4	6156.7	5966.8	6131.2	6999.8	5453.6	3905.4
37.5°	8216.2	8142.5	7894.9	7517.8	7177.5	6823.1	6579.2	6613.3	7422.3	5718.2	3966.8
40°	9087.7	9020.6	8791.8	8436.5	8009.3	7579.2	7319.3	7243.7	8005.5	6040.5	4074.6
42.5°	9610.3	9549.9	9453.5	9303.2	8943.1	8504.5	8176.5	8013.0	8695.4	6426.1	4205.9
45°	9639.6	9586.7	9716.2	9891.1	9820.2	9528.1	9128.3	8828.7	9388.2	6788.1	4342.0
47.5°	9170.9	9134.9	9528.1	10138.7	10443.0	10565.9	10197.3	9576.3	9960.1	7048.0	4397.8
50°	7893.0	7879.8	8688.8	9809.8	10680.3	11475.1	11324.9	10272.0	10403.3	7182.2	4344.9
52.5°	6843.9	6795.7	7267.3	8756.9	10335.3	11953.4	12426.9	10954.4	10713.3	7207.8	4221.1
55°	5190.8	5148.3	5739.9	6995.1	9222.8	11783.3	13233.1	11658.5	10935.5	7142.5	3999.0
57.5°	2784.4	2758.0	3505.6	4655.8	7209.7	10762.5	13378.7	12403.3	11122.6	6969.6	3688.0
60°	1084.1	1079.4	1359.1	2258.9	4381.7	8755.9	12644.3	12850.3	11239.8	6756.9	3428.1
62.5°	655.9	670.1	715.5	1014.2	1935.7	5439.4	10951.5	12341.8	11318.2	6562.2	3213.5
65°	542.5	543.5	549.1	696.6	927.2	2275.9	8244.6	10668.9	11124.5	6215.3	2909.2
67.5°	465.0	473.5	495.3	552.9	654.0	998.1	4746.6	8264.4	9945.9	5408.2	2434.7
70°	366.7	378.1	405.5	454.6	504.7	624.7	1754.2	5498.9	7598.1	4076.5	1841.2
72.5°	309.1	308.1	322.3	369.6	400.7	439.5	674.8	3081.2	4415.8	1946.1	911.1
75°	239.1	248.6	266.5	309.1	328.0	318.5	365.8	1125.7	1582.2	589.8	310.0
77.5°	187.1	194.7	210.8	252.4	271.3	225.9	210.8	402.6	508.5	211.7	139.9
80°	84.1	90.7	143.7	186.2	221.2	156.0	114.4	206.0	225.9	96.4	70.9
82.5°	15.1	25.5	84.1	98.3	113.4	101.1	59.5	106.8	110.6	38.8	24.6
85°	0.9	1.9	29.3	35.9	45.4	33.1	18.0	42.5	36.9	13.2	9.5
87.5°	0.0	0.0	0.0	0.9	0.9	4.7	5.7	7.6	5.7	4.7	3.8
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°	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7	3693.7
2.5°	3634.1	3499.9	3369.5	3262.7	3200.3	3094.4	3024.5	3013.2	2983.9	3009.4
5°	3564.2	3324.1	3081.2	2863.8	2685.2	2454.6	2282.6	2209.8	2146.4	2168.2
7.5°	3531.1	3152.1	2774.0	2402.6	2020.7	1652.1	1378.0	1263.7	1176.7	1189.0
10°	3486.7	2973.5	2380.8	1813.8	1302.4	938.5	749.5	679.6	640.8	641.8
12.5°	3452.7	2759.9	1924.3	1229.6	793.0	599.2	540.6	523.6	512.3	513.2
15°	3435.6	2508.4	1473.5	819.5	567.1	507.5	493.4	485.8	478.2	477.3
17.5°	3407.3	2228.7	1078.4	598.3	496.2	475.4	463.1	454.6	445.2	443.3
20°	3364.8	1911.1	788.3	505.7	465.0	448.9	431.9	420.6	409.3	407.4
22.5°	3286.3	1575.6	605.8	467.9	442.3	424.4	403.6	390.3	379.0	377.1
25°	3140.8	1260.8	510.4	444.2	422.5	400.7	378.1	360.1	349.7	347.8
27.5°	2956.4	990.5	463.1	422.5	397.0	377.1	351.6	334.6	325.1	323.2
30°	2739.1	762.7	435.7	397.9	366.7	349.7	327.0	312.8	307.2	307.2
32.5°	2504.7	609.6	424.4	373.3	340.3	321.4	303.4	297.7	295.8	294.9
35°	2284.4	529.3	418.7	353.5	316.6	298.7	291.1	292.1	295.8	295.8
37.5°	2088.8	503.8	415.9	339.3	295.8	279.8	284.5	293.0	289.2	289.2
40°	1912.1	506.6	414.0	328.9	278.8	269.4	278.8	272.2	262.8	261.8
42.5°	1776.9	530.2	410.2	320.4	268.4	261.8	258.0	247.6	246.7	248.6
45°	1678.6	551.0	409.3	316.6	257.1	244.8	240.1	229.7	248.6	253.3
47.5°	1562.3	551.0	409.3	303.4	238.2	233.5	225.9	214.6	233.5	238.2
50°	1412.1	516.1	393.2	288.3	223.1	220.2	207.0	192.8	189.0	191.9
52.5°	1222.1	452.7	352.5	267.5	207.9	202.3	186.2	175.8	173.0	173.0
55°	1005.6	379.0	297.7	237.2	191.9	181.5	170.1	165.4	162.6	160.7
57.5°	817.6	311.0	239.1	210.8	176.7	163.5	159.7	154.1	149.3	146.5
60°	671.1	244.8	197.5	187.1	161.6	149.3	148.4	140.8	128.5	126.7
62.5°	517.9	179.6	166.3	162.6	146.5	136.1	134.2	119.1	100.2	96.4
65°	365.8	139.9	134.2	142.7	130.4	121.0	116.3	93.6	73.7	70.9
67.5°	257.1	117.2	105.9	124.8	113.4	101.1	98.3	79.4	61.4	59.5
70°	183.4	95.5	87.0	106.8	90.7	88.8	83.2	66.2	50.1	48.2
72.5°	129.5	72.8	67.1	92.6	62.4	76.6	68.1	51.0	37.8	35.9
75°	95.5	52.0	47.3	53.9	45.4	57.7	48.2	34.0	23.6	22.7
77.5°	69.9	33.1	28.4	26.5	26.5	35.9	26.5	14.2	10.4	9.5
80°	49.1	15.1	13.2	11.3	10.4	8.5	3.8	1.9	0.9	0.9
82.5°	29.3	6.6	6.6	4.7	2.8	0.0	0.0	0.0	0.0	0.0
85°	6.6	2.8	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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)