

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: P946974

Luminaire Tested: **GALN-SB2C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946974
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-SB2C-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 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: 10549 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - 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

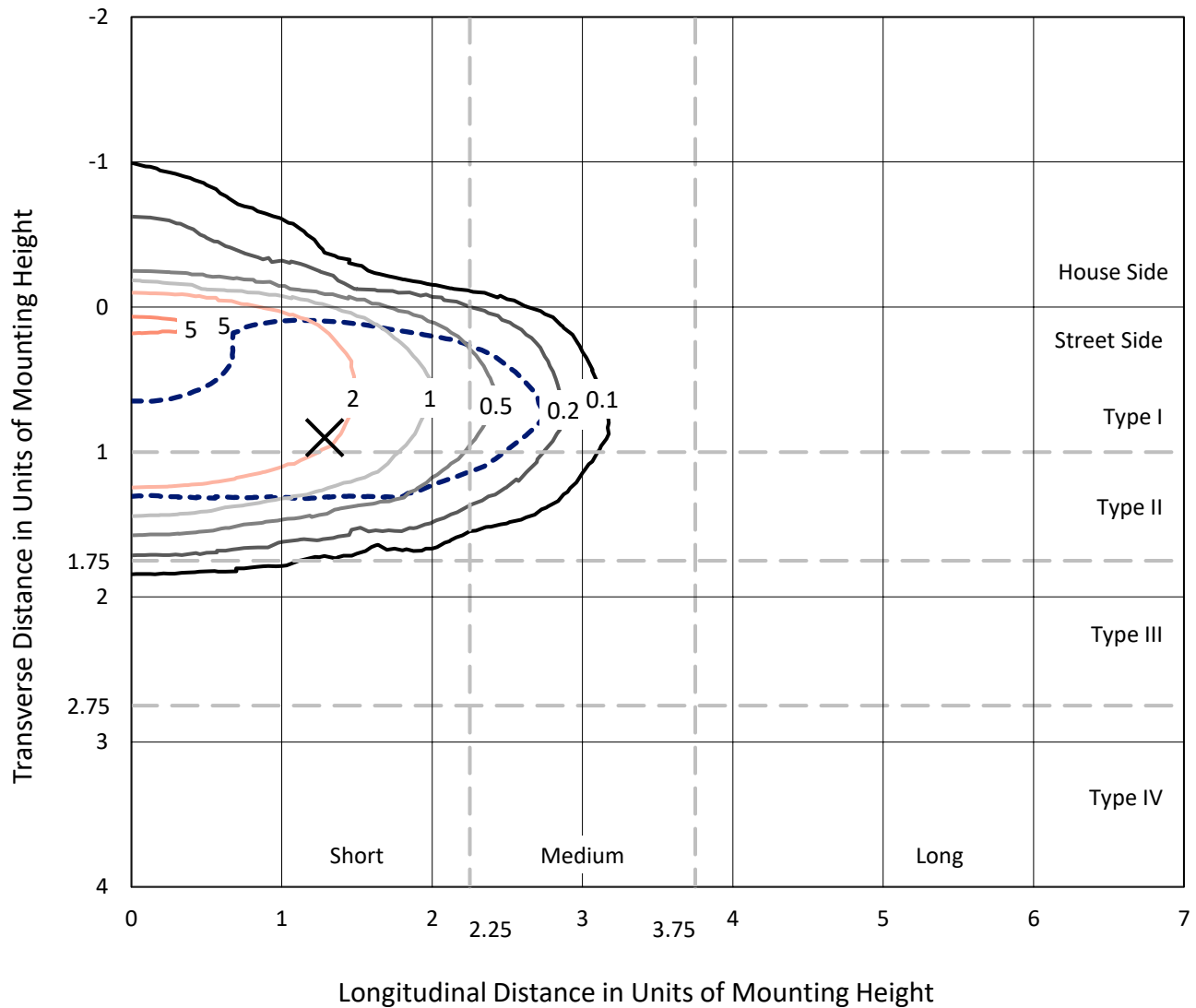


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Iso-Footcandle Lines of Horizontal Illumination

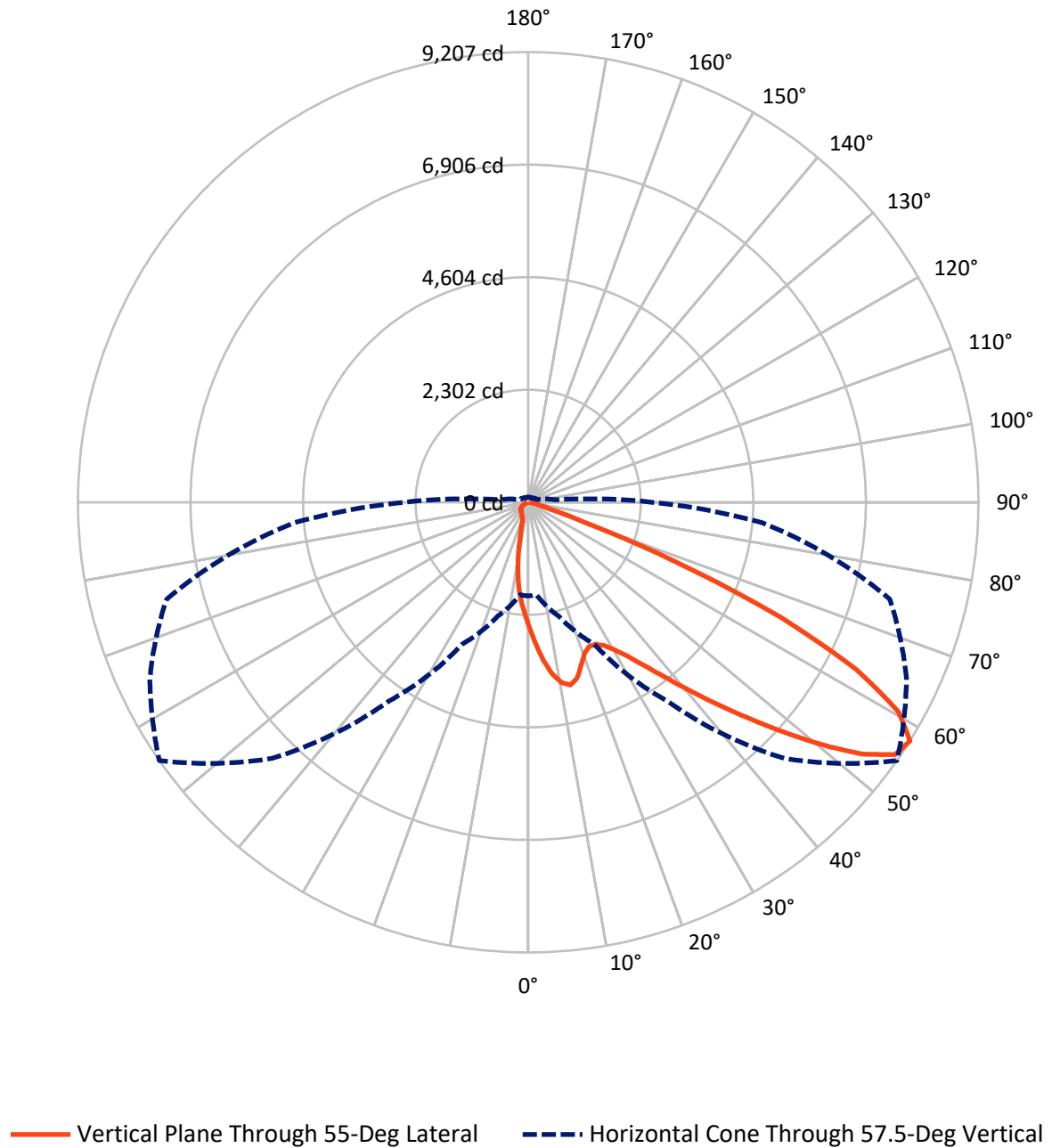
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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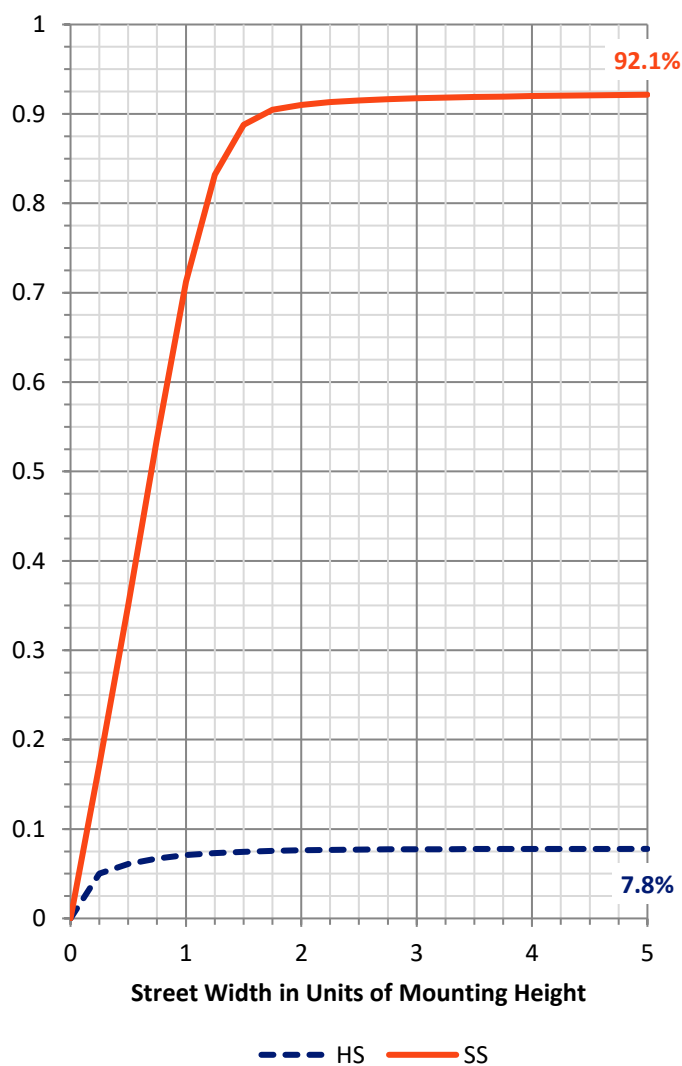
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	823.8	0.0	823.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	9725.2	0.0	9725.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	10549.0	0.0	10549.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.5	2.2
10°-20°	571.3	5.4
20°-30°	914.1	8.7
30°-40°	1547.2	14.7
40°-50°	2540.2	24.1
50°-60°	2791.8	26.5
60°-70°	1601.4	15.2
70°-80°	327.2	3.1
80°-90°	19.3	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°	10549.0	100.0
0°-180°	10549.0	100.0

Coefficient of Utilization



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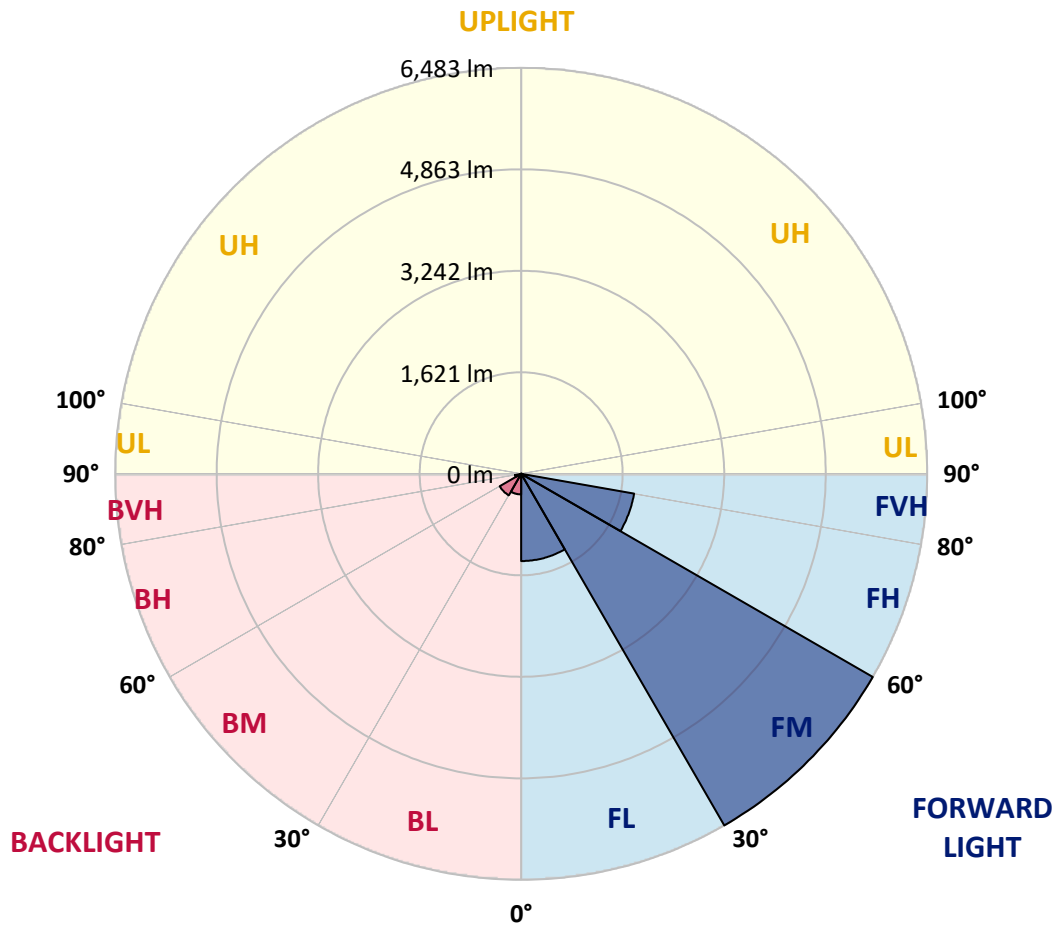
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1393.1	13.2			
FM	(30°-60°)	6483.5	61.5			
FH	(60°-80°)	1830.6	17.4			G2/5000
FVH	(80°-90°)	18.0	0.2			G1/100
BL	(0°-30°)	328.9	3.1	B1/500		
BM	(30°-60°)	395.7	3.8	B1/1000		
BH	(60°-80°)	98.0	0.9	B0/110		G0/110
BVH	(80°-90°)	1.3	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°	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0
2.5°	3154.1	3114.5	3108.6	3100.8	3025.4	2968.8	2886.8	2797.0	2696.2	2593.4	2547.9
5°	3644.0	3612.7	3606.9	3570.4	3484.6	3388.3	3242.6	3058.5	2870.5	2649.4	2554.4
7.5°	3738.9	3733.1	3759.7	3758.4	3746.7	3670.6	3547.7	3328.5	3046.2	2718.3	2571.3
10°	3315.5	3330.4	3409.8	3479.4	3667.4	3776.6	3750.0	3569.1	3227.0	2797.0	2590.2
12.5°	2929.7	2912.2	2968.8	3047.5	3266.0	3591.3	3833.9	3770.1	3433.8	2886.1	2618.2
15°	2687.8	2680.6	2712.5	2748.9	2915.4	3243.3	3736.3	3933.4	3632.9	2991.5	2660.4
17.5°	2610.3	2604.5	2614.3	2623.4	2731.3	2985.0	3504.1	4033.6	3823.5	3111.9	2707.3
20°	2673.4	2665.6	2664.3	2657.2	2702.1	2875.1	3294.0	4040.7	3994.6	3221.1	2747.6
22.5°	2857.5	2848.4	2816.5	2787.9	2791.8	2890.1	3200.3	3969.2	4123.3	3323.3	2773.0
25°	3191.2	3176.3	3109.9	3013.6	2952.5	2994.1	3214.6	3874.9	4246.3	3403.3	2760.6
27.5°	3608.8	3589.3	3504.1	3361.0	3221.1	3170.4	3318.1	3809.8	4348.4	3464.4	2733.9
30°	4018.0	3992.6	3908.7	3797.5	3593.2	3433.2	3504.7	3838.4	4470.1	3528.2	2698.8
32.5°	4459.6	4435.6	4324.3	4186.4	4017.3	3802.0	3760.4	3978.3	4619.0	3617.3	2674.1
35°	5018.4	4980.7	4822.6	4634.6	4455.1	4237.2	4106.4	4219.6	4817.4	3753.2	2687.8
37.5°	5654.6	5603.8	5433.4	5173.9	4939.7	4695.8	4527.9	4551.4	5108.2	3935.4	2730.0
40°	6254.3	6208.1	6050.7	5806.1	5512.1	5216.1	5037.3	4985.2	5509.5	4157.2	2804.2
42.5°	6614.0	6572.4	6506.0	6402.6	6154.8	5853.0	5627.2	5514.7	5984.4	4422.6	2894.6
45°	6634.2	6597.7	6686.9	6807.2	6758.4	6557.4	6282.3	6076.1	6461.1	4671.7	2988.3
47.5°	6311.5	6286.8	6557.4	6977.6	7187.1	7271.6	7018.0	6590.6	6854.7	4850.6	3026.7
50°	5432.1	5423.0	5979.8	6751.3	7350.3	7897.4	7794.0	7069.3	7159.8	4942.9	2990.2
52.5°	4710.1	4676.9	5001.5	6026.6	7112.9	8226.5	8552.4	7539.0	7373.1	4960.5	2905.0
55°	3572.4	3543.1	3950.3	4814.2	6347.3	8109.4	9107.3	8023.6	7526.0	4915.6	2752.2
57.5°	1916.3	1898.1	2412.6	3204.2	4961.8	7406.9	9207.4	8536.2	7654.8	4796.6	2538.1
60°	746.1	742.8	935.4	1554.6	3015.6	6026.0	8702.0	8843.8	7735.4	4650.2	2359.3
62.5°	451.4	461.2	492.4	698.0	1332.2	3743.5	7537.0	8493.9	7789.4	4516.2	2211.6
65°	373.4	374.0	377.9	479.4	638.1	1566.3	5674.1	7342.5	7656.1	4277.5	2002.2
67.5°	320.0	325.9	340.8	380.5	450.1	686.9	3266.7	5687.7	6844.9	3722.0	1675.6
70°	252.4	260.2	279.1	312.9	347.4	430.0	1207.3	3784.5	5229.2	2805.5	1267.1
72.5°	212.7	212.1	221.8	254.3	275.8	302.5	464.4	2120.5	3039.0	1339.3	627.1
75°	164.6	171.1	183.4	212.7	225.7	219.2	251.7	774.7	1088.9	405.9	213.4
77.5°	128.8	134.0	145.1	173.7	186.7	155.5	145.1	277.1	350.0	145.7	96.3
80°	57.9	62.4	98.9	128.1	152.2	107.3	78.7	141.8	155.5	66.3	48.8
82.5°	10.4	17.6	57.9	67.6	78.1	69.6	41.0	73.5	76.1	26.7	16.9
85°	0.7	1.3	20.2	24.7	31.2	22.8	12.4	29.3	25.4	9.1	6.5
87.5°	0.0	0.0	0.0	0.7	0.7	3.3	3.9	5.2	3.9	3.3	2.6
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°	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0	2542.0
2.5°	2501.1	2408.7	2318.9	2245.4	2202.5	2129.6	2081.5	2073.7	2053.5	2071.1
5°	2452.9	2287.7	2120.5	1970.9	1848.0	1689.3	1570.9	1520.8	1477.2	1492.2
7.5°	2430.2	2169.3	1909.1	1653.5	1390.7	1137.0	948.4	869.7	809.8	818.3
10°	2399.6	2046.4	1638.5	1248.3	896.4	645.9	515.8	467.7	441.0	441.7
12.5°	2376.2	1899.4	1324.4	846.3	545.7	412.4	372.1	360.4	352.6	353.2
15°	2364.5	1726.4	1014.1	564.0	390.3	349.3	339.5	334.3	329.1	328.5
17.5°	2345.0	1533.8	742.2	411.7	341.5	327.2	318.7	312.9	306.4	305.1
20°	2315.7	1315.3	542.5	348.0	320.0	309.0	297.3	289.5	281.7	280.4
22.5°	2261.7	1084.3	417.0	322.0	304.4	292.1	277.8	268.6	260.8	259.5
25°	2161.5	867.7	351.3	305.7	290.8	275.8	260.2	247.8	240.7	239.4
27.5°	2034.7	681.7	318.7	290.8	273.2	259.5	242.0	230.3	223.8	222.5
30°	1885.1	524.9	299.9	273.8	252.4	240.7	225.1	215.3	211.4	211.4
32.5°	1723.8	419.6	292.1	256.9	234.2	221.2	208.8	204.9	203.6	202.9
35°	1572.2	364.3	288.2	243.3	217.9	205.5	200.3	201.0	203.6	203.6
37.5°	1437.5	346.7	286.2	233.5	203.6	192.5	195.8	201.6	199.0	199.0
40°	1315.9	348.7	284.9	226.4	191.9	185.4	191.9	187.3	180.8	180.2
42.5°	1222.9	364.9	282.3	220.5	184.7	180.2	177.6	170.4	169.8	171.1
45°	1155.2	379.2	281.7	217.9	176.9	168.5	165.2	158.1	171.1	174.3
47.5°	1075.2	379.2	281.7	208.8	163.9	160.7	155.5	147.7	160.7	163.9
50°	971.8	355.2	270.6	198.4	153.5	151.6	142.5	132.7	130.1	132.0
52.5°	841.1	311.6	242.6	184.1	143.1	139.2	128.1	121.0	119.0	119.0
55°	692.1	260.8	204.9	163.3	132.0	124.9	117.1	113.8	111.9	110.6
57.5°	562.7	214.0	164.6	145.1	121.6	112.5	109.9	106.0	102.8	100.8
60°	461.8	168.5	135.9	128.8	111.2	102.8	102.1	96.9	88.5	87.2
62.5°	356.5	123.6	114.5	111.9	100.8	93.7	92.4	82.0	69.0	66.3
65°	251.7	96.3	92.4	98.2	89.8	83.3	80.0	64.4	50.7	48.8
67.5°	176.9	80.7	72.9	85.9	78.1	69.6	67.6	54.6	42.3	41.0
70°	126.2	65.7	59.8	73.5	62.4	61.1	57.2	45.5	34.5	33.2
72.5°	89.1	50.1	46.2	63.7	42.9	52.7	46.8	35.1	26.0	24.7
75°	65.7	35.8	32.5	37.1	31.2	39.7	33.2	23.4	16.3	15.6
77.5°	48.1	22.8	19.5	18.2	18.2	24.7	18.2	9.8	7.2	6.5
80°	33.8	10.4	9.1	7.8	7.2	5.9	2.6	1.3	0.7	0.7
82.5°	20.2	4.6	4.6	3.3	2.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.0	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	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)