

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: P953757

Luminaire Tested: **GALN-SB7B-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953757
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-SB7B-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 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: 28206 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 256.7
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

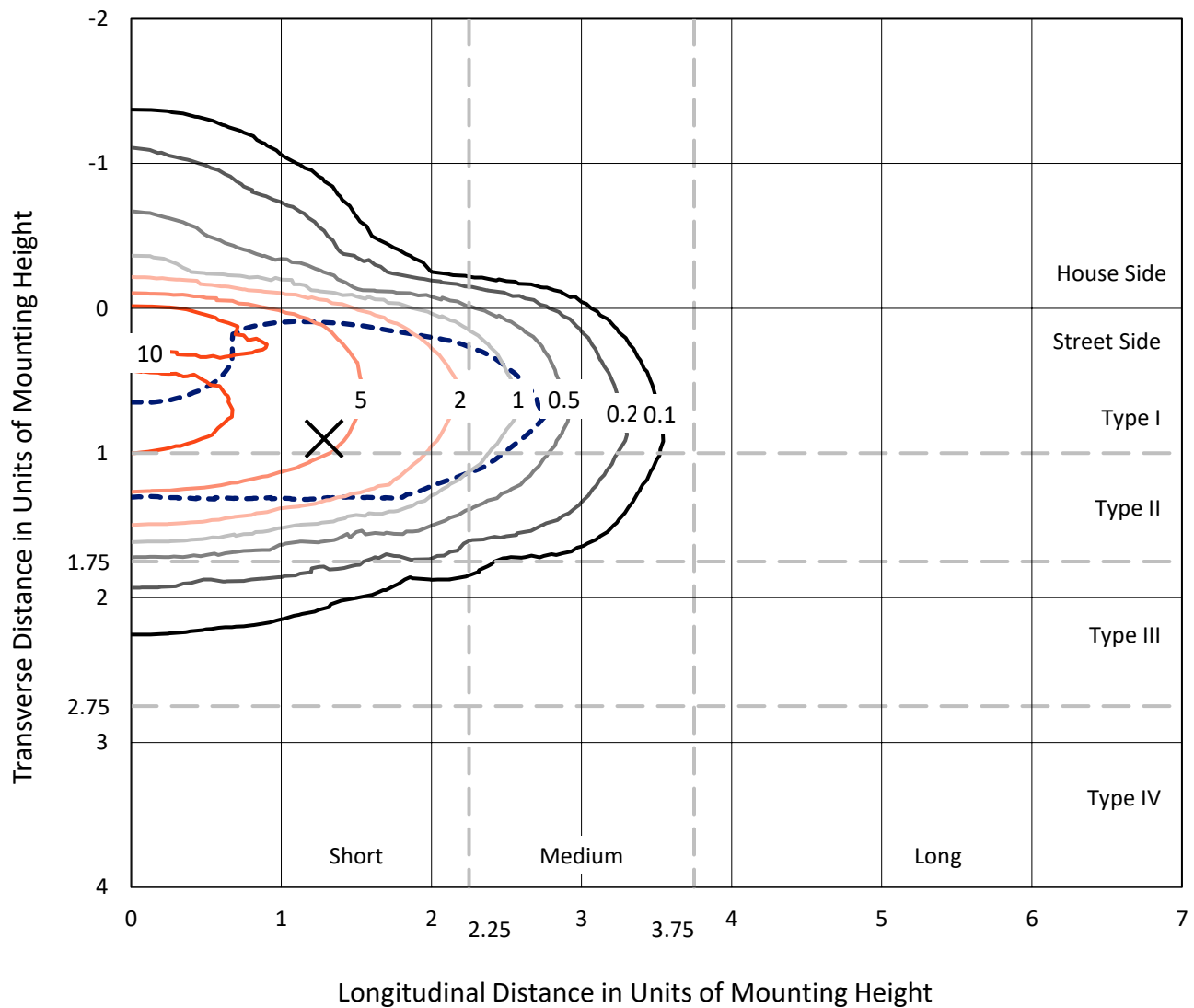


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Iso-Footcandle Lines of Horizontal Illumination

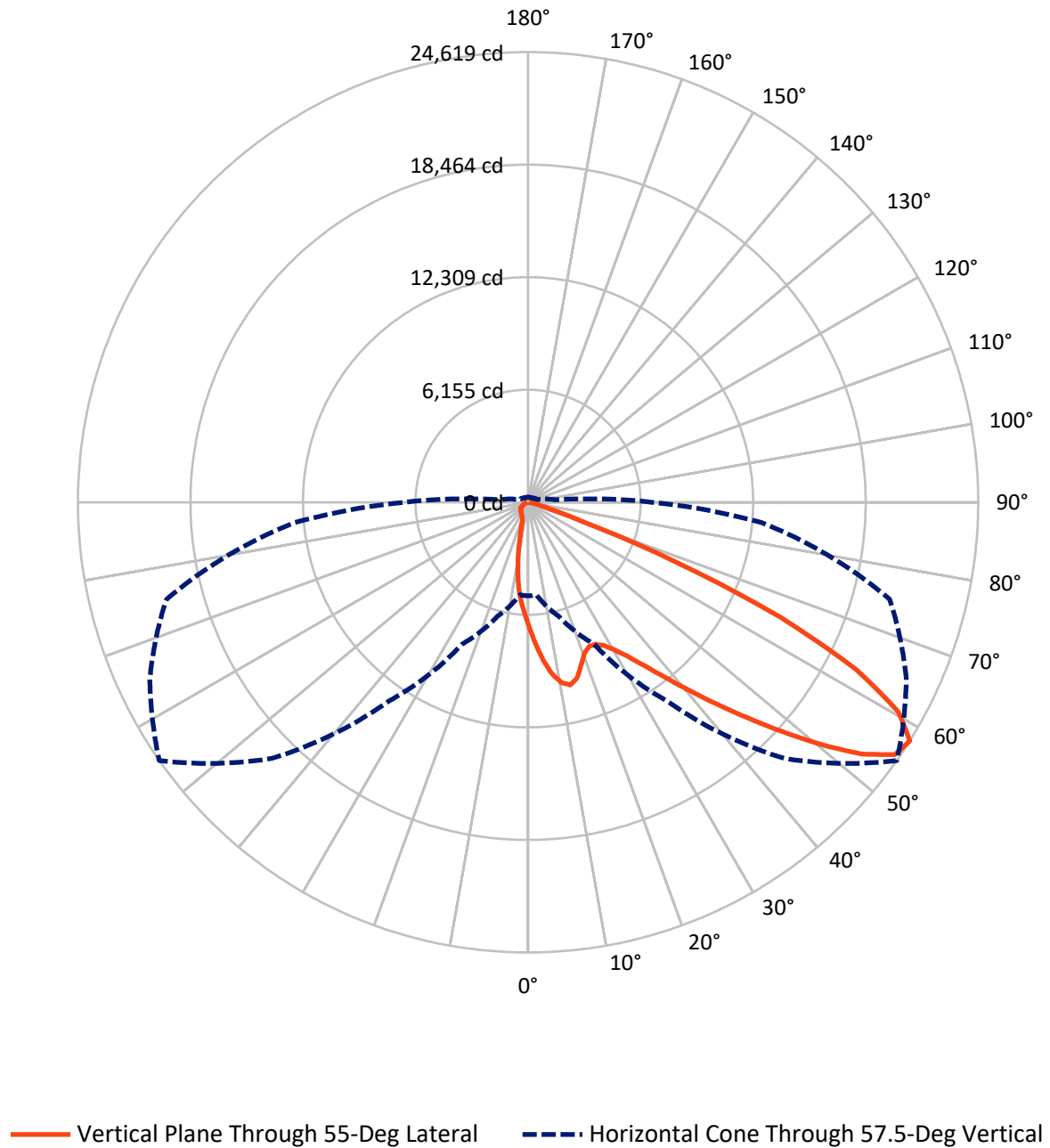
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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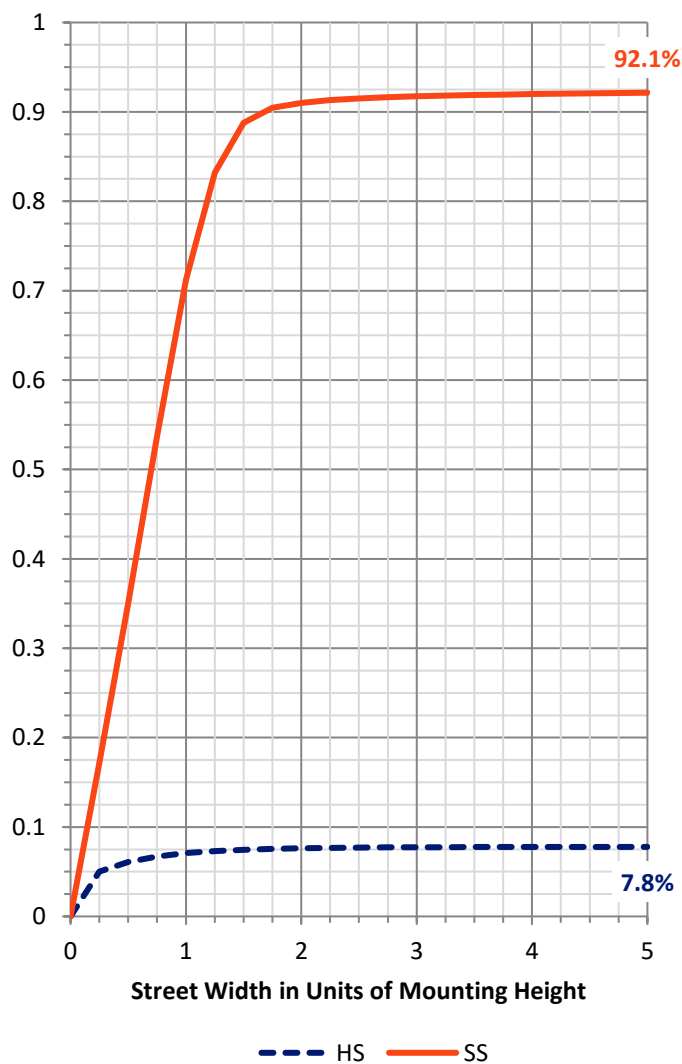
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2202.8	0.0	2202.8
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	26003.2	0.0	26003.2
	% Fixture	92.2	0.0	92.2
Total	Lumens	28206.0	0.0	28206.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.4	2.2
10°-20°	1527.6	5.4
20°-30°	2444.2	8.7
30°-40°	4136.9	14.7
40°-50°	6791.9	24.1
50°-60°	7464.8	26.5
60°-70°	4281.8	15.2
70°-80°	874.9	3.1
80°-90°	51.6	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°	28206.0	100.0
0°-180°	28206.0	100.0

Coefficient of Utilization



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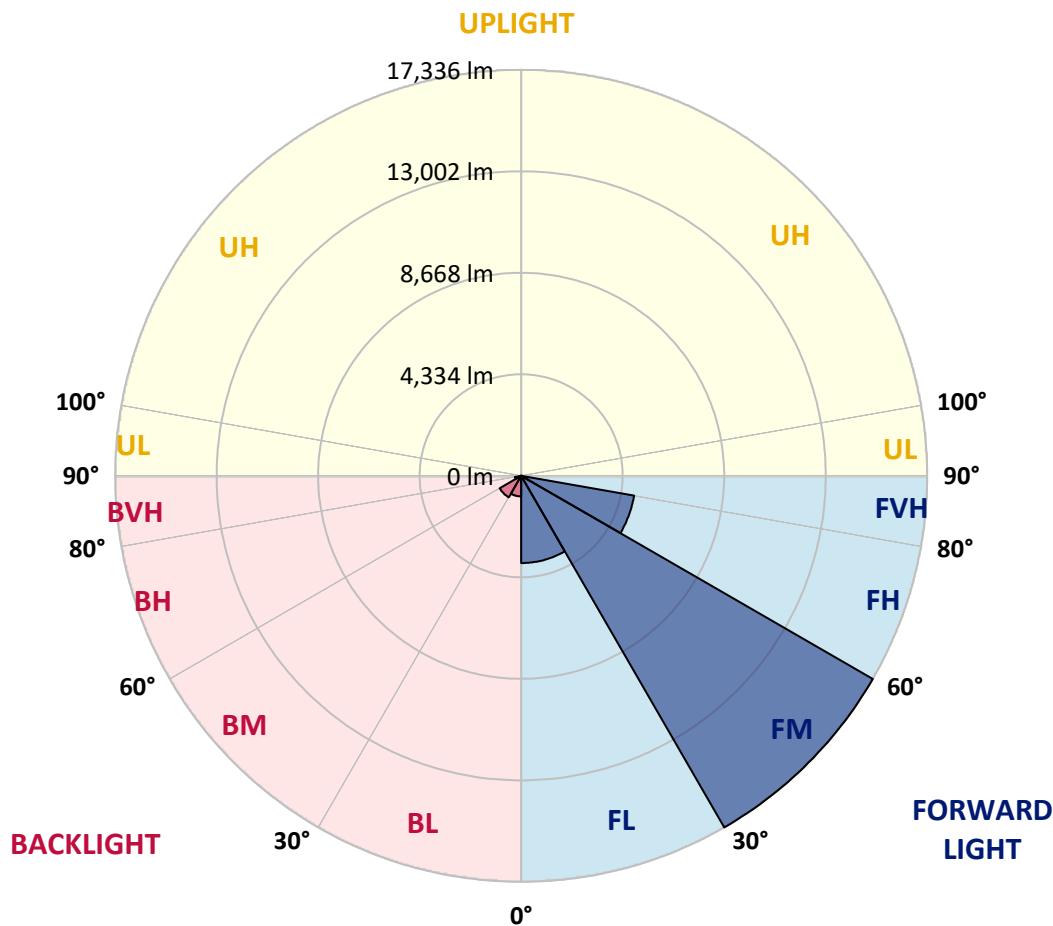
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3724.8	13.2			
FM	(30°-60°)	17335.6	61.5			
FH	(60°-80°)	4894.7	17.4			G2/5000
FVH	(80°-90°)	48.1	0.2			G1/100
BL	(0°-30°)	879.4	3.1	B2/1000		
BM	(30°-60°)	1057.9	3.8	B2/2500		
BH	(60°-80°)	262.0	0.9	B1/500		G1/500
BVH	(80°-90°)	3.5	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°	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0
2.5°	8433.6	8327.5	8311.8	8291.0	8089.2	7937.9	7718.7	7478.7	7209.2	6934.4	6812.6
5°	9743.2	9659.7	9644.1	9546.7	9317.1	9059.7	8670.1	8177.9	7675.3	7083.9	6830.0
7.5°	9997.2	9981.5	10052.8	10049.3	10018.0	9814.5	9485.8	8899.7	8144.9	7268.3	6875.2
10°	8864.9	8904.9	9117.1	9303.2	9805.8	10098.0	10026.7	9543.2	8628.4	7478.7	6925.7
12.5°	7833.5	7786.6	7937.9	8148.3	8732.7	9602.3	10251.1	10080.6	9181.4	7717.0	7000.4
15°	7186.5	7167.4	7252.6	7350.0	7795.3	8671.9	9990.2	10517.2	9713.7	7998.8	7113.5
17.5°	6979.6	6963.9	6990.0	7014.4	7303.1	7981.4	9369.3	10785.0	10223.3	8320.5	7238.7
20°	7148.3	7127.4	7123.9	7104.8	7224.8	7687.4	8807.5	10804.2	10680.7	8612.7	7346.6
22.5°	7640.5	7616.1	7530.9	7454.4	7464.8	7727.4	8557.1	10612.8	11025.0	8885.8	7414.4
25°	8532.7	8492.7	8315.3	8057.9	7894.4	8005.7	8595.3	10360.7	11353.8	9099.7	7381.3
27.5°	9649.3	9597.1	9369.3	8986.7	8612.7	8477.1	8871.9	10186.7	11626.8	9263.2	7310.0
30°	10743.3	10675.5	10451.1	10153.7	9607.6	9179.7	9371.0	10263.3	11952.1	9433.6	7216.1
32.5°	11924.2	11859.9	11562.5	11193.8	10741.5	10165.9	10054.5	10637.2	12350.3	9671.9	7150.0
35°	13418.2	13317.4	12894.7	12392.1	11912.1	11329.4	10979.8	11282.5	12880.8	10035.4	7186.5
37.5°	15119.2	14983.6	14527.9	13833.9	13207.8	12555.6	12106.9	12169.5	13658.3	10522.4	7299.6
40°	16722.8	16599.3	16178.4	15524.5	14738.3	13947.0	13468.7	13329.5	14731.4	11115.5	7497.9
42.5°	17684.6	17573.3	17395.9	17119.3	16456.7	15649.7	15046.2	14745.3	16001.0	11825.1	7739.6
45°	17738.5	17641.1	17879.4	18201.1	18070.7	17533.3	16797.6	16246.2	17275.9	12491.2	7990.1
47.5°	16875.8	16809.8	17533.3	18656.8	19216.9	19443.0	18764.7	17622.0	18328.1	12969.5	8092.7
50°	14524.4	14500.0	15988.8	18051.6	19653.4	21116.1	20839.6	18902.1	19143.8	13216.5	7995.3
52.5°	12593.8	12505.1	13373.0	16114.1	19018.6	21996.2	22867.5	20157.8	19714.3	13263.4	7767.4
55°	9551.9	9473.6	10562.4	12872.1	16971.5	21683.1	24351.1	21453.5	20123.0	13143.4	7358.7
57.5°	5123.8	5075.1	6450.8	8567.5	13266.9	19804.7	24618.9	22824.0	20467.4	12825.2	6786.5
60°	1994.9	1986.2	2501.0	4156.8	8063.1	16112.3	23267.6	23646.7	20683.0	12433.8	6308.2
62.5°	1207.0	1233.1	1316.6	1866.2	3562.0	10009.3	20152.6	22711.0	20827.4	12075.5	5913.4
65°	998.3	1000.1	1010.5	1281.8	1706.2	4188.1	15171.4	19632.5	20470.9	11437.2	5353.4
67.5°	855.7	871.4	911.4	1017.5	1203.6	1836.6	8734.5	15207.9	18302.0	9951.9	4480.3
70°	674.8	695.7	746.1	836.6	928.8	1149.6	3228.0	10118.9	13981.8	7501.3	3388.0
72.5°	568.7	567.0	593.1	680.0	737.4	808.7	1241.8	5669.9	8125.7	3581.1	1676.6
75°	440.0	457.4	490.5	568.7	603.5	586.1	673.1	2071.4	2911.5	1085.3	570.5
77.5°	344.4	358.3	387.9	464.4	499.2	415.7	387.9	740.9	935.7	389.6	257.4
80°	154.8	167.0	264.4	342.6	407.0	287.0	210.4	379.2	415.7	177.4	130.4
82.5°	27.8	47.0	154.8	180.9	208.7	186.1	109.6	196.5	203.5	71.3	45.2
85°	1.7	3.5	53.9	66.1	83.5	60.9	33.0	78.3	67.8	24.3	17.4
87.5°	0.0	0.0	0.0	1.7	1.7	8.7	10.4	13.9	10.4	8.7	7.0
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°	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0	6797.0
2.5°	6687.4	6440.4	6200.4	6003.9	5889.1	5694.3	5565.6	5544.7	5490.8	5537.7
5°	6558.7	6116.9	5669.9	5269.9	4941.2	4516.8	4200.3	4066.3	3949.8	3989.8
7.5°	6497.8	5800.4	5104.7	4421.1	3718.5	3040.2	2535.8	2325.4	2165.4	2188.0
10°	6416.1	5471.6	4381.1	3337.6	2396.7	1727.1	1379.2	1250.5	1179.2	1180.9
12.5°	6353.4	5078.6	3541.1	2262.8	1459.2	1102.7	994.8	963.5	942.7	944.4
15°	6322.1	4615.9	2711.5	1507.9	1043.5	934.0	907.9	894.0	880.1	878.3
17.5°	6270.0	4101.1	1984.5	1100.9	913.1	874.8	852.2	836.6	819.2	815.7
20°	6191.7	3516.7	1450.5	930.5	855.7	826.1	794.8	774.0	753.1	749.6
22.5°	6047.3	2899.3	1114.9	860.9	814.0	780.9	742.7	718.3	697.4	694.0
25°	5779.5	2320.1	939.2	817.4	777.4	737.4	695.7	662.7	643.5	640.0
27.5°	5440.3	1822.7	852.2	777.4	730.5	694.0	647.0	615.7	598.3	594.8
30°	5040.3	1403.6	801.8	732.2	674.8	643.5	601.8	575.7	565.3	565.3
32.5°	4609.0	1121.8	780.9	687.0	626.1	591.3	558.3	547.9	544.4	542.6
35°	4203.7	974.0	770.5	650.5	582.6	549.6	535.7	537.4	544.4	544.4
37.5°	3843.7	927.0	765.3	624.4	544.4	514.8	523.5	539.2	532.2	532.2
40°	3518.5	932.2	761.8	605.3	513.1	495.7	513.1	500.9	483.5	481.8
42.5°	3269.8	975.7	754.8	589.6	493.9	481.8	474.8	455.7	453.9	457.4
45°	3088.9	1014.0	753.1	582.6	473.1	450.5	441.8	422.6	457.4	466.1
47.5°	2875.0	1014.0	753.1	558.3	438.3	429.6	415.7	394.8	429.6	438.3
50°	2598.4	949.6	723.5	530.5	410.5	405.2	380.9	354.8	347.8	353.1
52.5°	2248.8	833.1	648.7	492.2	382.6	372.2	342.6	323.5	318.3	318.3
55°	1850.6	697.4	547.9	436.5	353.1	333.9	313.1	304.4	299.1	295.7
57.5°	1504.4	572.2	440.0	387.9	325.2	300.9	293.9	283.5	274.8	269.6
60°	1234.9	450.5	363.5	344.4	297.4	274.8	273.1	259.1	236.5	233.1
62.5°	953.1	330.5	306.1	299.1	269.6	250.5	247.0	219.1	184.4	177.4
65°	673.1	257.4	247.0	262.6	240.0	222.6	213.9	172.2	135.7	130.4
67.5°	473.1	215.7	194.8	229.6	208.7	186.1	180.9	146.1	113.1	109.6
70°	337.4	175.7	160.0	196.5	167.0	163.5	153.1	121.7	92.2	88.7
72.5°	238.3	133.9	123.5	170.4	114.8	140.9	125.2	93.9	69.6	66.1
75°	175.7	95.7	87.0	99.1	83.5	106.1	88.7	62.6	43.5	41.7
77.5°	128.7	60.9	52.2	48.7	48.7	66.1	48.7	26.1	19.1	17.4
80°	90.4	27.8	24.3	20.9	19.1	15.7	7.0	3.5	1.7	1.7
82.5°	53.9	12.2	12.2	8.7	5.2	0.0	0.0	0.0	0.0	0.0
85°	12.2	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.7	1.7	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)