

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: P943474

Luminaire Tested: **GALN-SB8A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943474
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21881 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 227.1
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

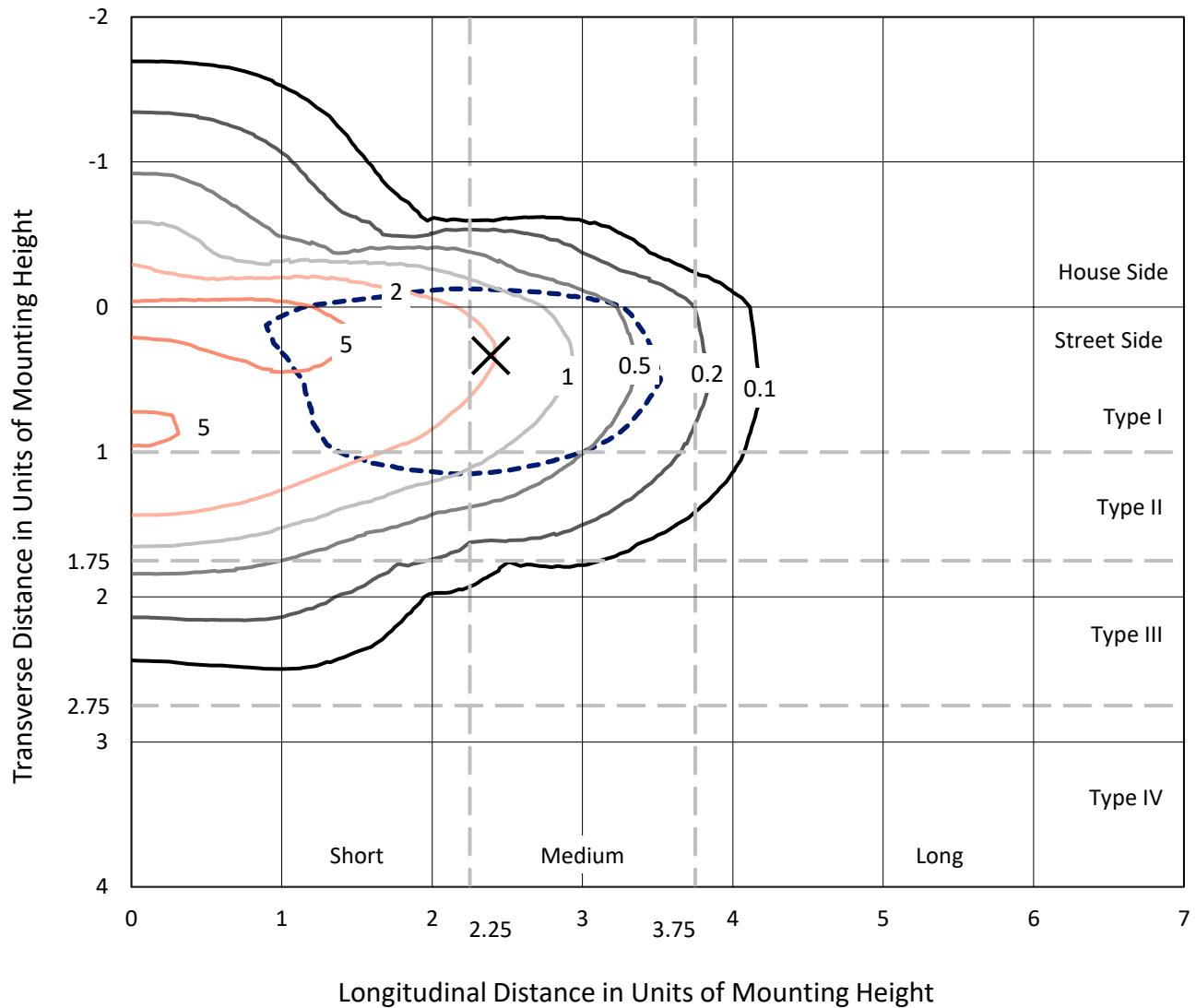


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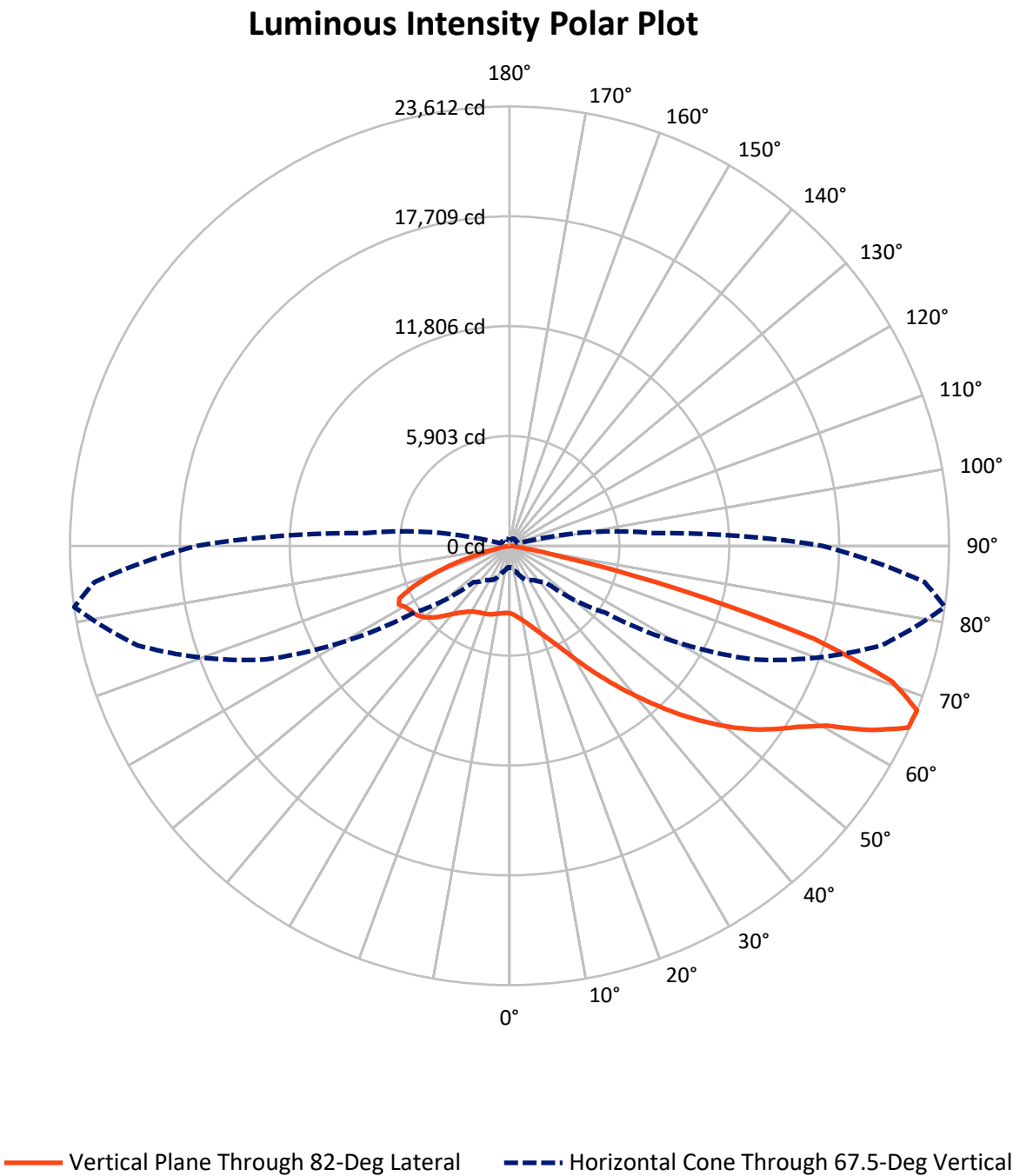
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - N/A

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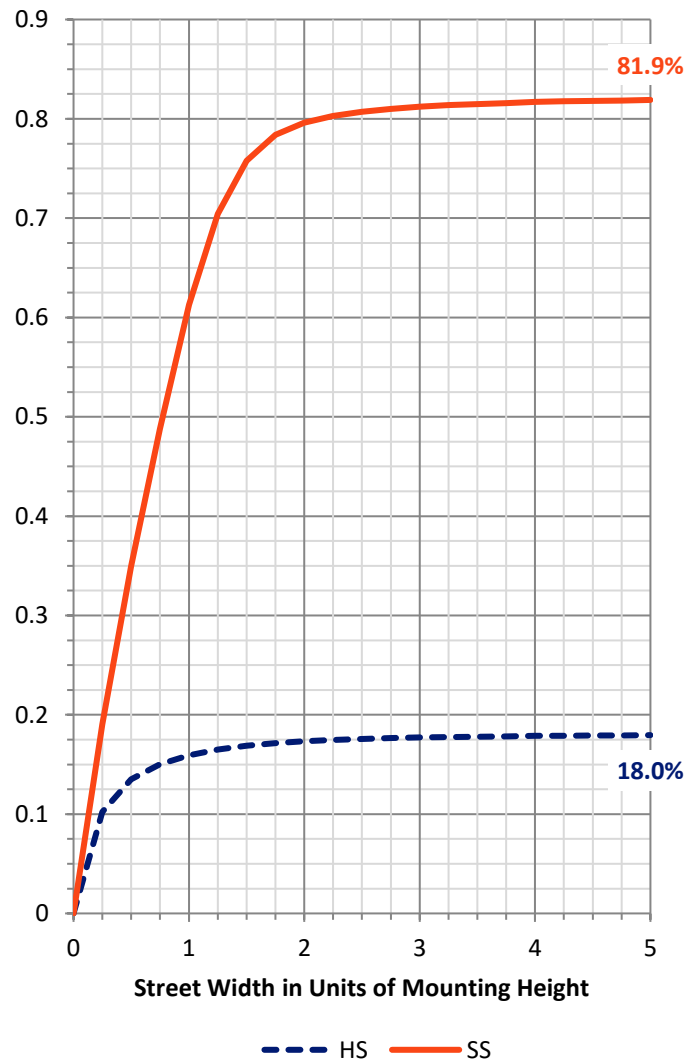
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3963.6	0.0	3963.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17917.5	0.0	17917.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	21881.0	0.0	21881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.0	1.5
10°-20°	839.2	3.8
20°-30°	1344.2	6.1
30°-40°	2376.9	10.9
40°-50°	4164.6	19.0
50°-60°	5554.4	25.4
60°-70°	5170.9	23.6
70°-80°	1984.6	9.1
80°-90°	123.3	0.6
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°	21881.0	100.0
0°-180°	21881.0	100.0

Coefficient of Utilization



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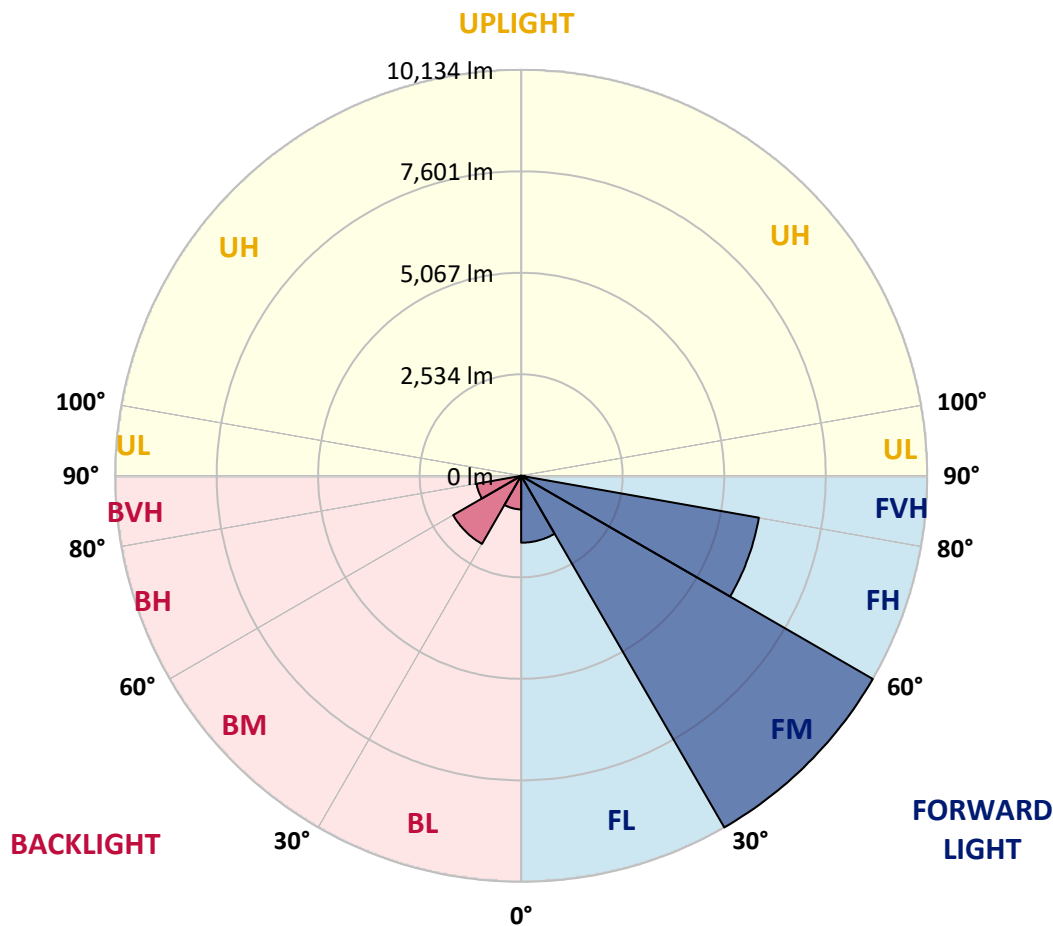
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1669.3	7.6			
FM	(30°-60°)	10134.4	46.3			
FH	(60°-80°)	6024.2	27.5			G3/7500
FVH	(80°-90°)	89.6	0.4			G1/100
BL	(0°-30°)	837.1	3.8	B2/1000		
BM	(30°-60°)	1961.5	9.0	B2/2500		
BH	(60°-80°)	1131.3	5.2	B3/2500		G3/2500
BVH	(80°-90°)	33.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	3831.3	3853.4	3840.8	3834.5	3823.4	3807.7	3795.1	3755.7	3714.7	3688.0	3678.5
5°	3908.5	3930.6	3929.0	3935.3	3943.2	3947.9	3944.7	3900.6	3842.3	3796.7	3769.9
7.5°	3842.3	3867.5	3888.0	3919.5	3974.7	4033.0	4061.3	4051.9	3992.0	3929.0	3895.9
10°	3654.9	3681.7	3730.5	3804.5	3921.1	4047.1	4152.7	4201.5	4163.7	4094.4	4048.7
12.5°	3311.4	3338.2	3434.3	3595.0	3790.4	4009.3	4211.0	4341.7	4351.2	4281.9	4228.3
15°	2925.5	2952.3	3054.7	3256.3	3554.0	3905.4	4242.5	4489.8	4573.3	4513.5	4448.9
17.5°	2686.0	2709.6	2786.8	2949.1	3259.5	3697.4	4231.5	4647.4	4838.0	4790.7	4713.5
20°	2613.5	2634.0	2670.3	2783.7	3042.1	3481.6	4159.0	4795.4	5123.1	5096.3	5009.7
22.5°	2690.7	2709.6	2720.7	2771.1	2933.4	3339.8	4067.6	4946.7	5454.0	5457.1	5351.6
25°	2868.8	2887.7	2875.1	2906.6	2977.5	3295.7	4033.0	5124.7	5869.9	5904.5	5784.8
27.5°	3161.8	3163.4	3133.4	3131.8	3142.9	3361.9	4069.2	5315.3	6394.5	6459.0	6311.0
30°	3749.4	3725.8	3610.8	3486.3	3429.6	3560.4	4170.0	5540.6	7013.6	7128.6	6942.7
32.5°	4655.2	4620.6	4409.5	4111.7	3812.4	3880.2	4351.2	5797.4	7687.8	7895.8	7668.9
35°	5638.3	5628.8	5408.3	4965.6	4442.6	4335.4	4645.8	6134.5	8423.5	8754.4	8485.0
37.5°	6552.0	6547.3	6421.2	5899.8	5263.3	4970.3	5118.4	6575.6	9211.2	9690.1	9371.9
40°	7386.9	7401.1	7275.1	6808.8	6167.6	5784.8	5761.2	7120.7	10087.1	10709.4	10331.3
42.5°	8108.5	8124.2	7996.6	7651.6	7060.8	6685.9	6550.4	7788.7	10942.6	11804.3	11356.9
45°	8598.4	8696.1	8677.2	8401.5	7977.7	7588.6	7498.8	8626.8	11917.7	12965.3	12440.7
47.5°	8737.0	8826.8	8968.6	9006.4	8748.1	8365.2	8472.4	9636.6	12903.9	14128.0	13530.9
50°	8395.2	8478.7	8773.3	9165.5	9345.1	9227.0	9419.2	10718.9	13913.7	15287.5	14600.6
52.5°	7720.9	7806.0	8177.8	8798.5	9531.0	9902.8	10369.1	11785.4	14892.0	16385.5	15613.6
55°	6745.8	6835.6	7312.9	8015.5	9176.6	10181.7	11161.5	12850.3	15788.4	17373.3	16527.3
57.5°	5419.3	5485.5	5981.7	6964.7	8284.9	9904.4	11746.0	14013.0	16632.8	18343.7	17433.1
60°	3532.0	3590.3	4166.9	5263.3	6807.2	8978.1	11862.6	15309.5	17754.5	19605.6	18654.0
62.5°	2348.9	2388.3	2730.1	3535.1	4793.9	7199.5	11180.4	16344.5	19399.2	21801.6	20747.7
65°	1611.6	1651.0	1992.9	2553.7	3097.2	4762.4	9219.1	16207.5	20889.5	23545.6	22299.5
67.5°	1150.0	1183.1	1473.0	2002.3	2241.8	2766.4	6249.5	14455.7	20675.2	23611.7	22382.9
70°	823.9	842.8	1082.3	1559.6	1781.8	1662.0	3475.3	11056.0	18102.7	21803.2	20678.4
72.5°	576.6	582.9	751.5	1187.8	1435.2	1213.0	1654.1	7371.2	13691.6	17113.3	16031.0
75°	390.7	398.6	505.7	871.2	1151.6	926.3	875.9	3952.6	8037.6	9472.7	8491.3
77.5°	239.5	242.6	326.1	595.5	861.7	705.8	564.0	1674.6	3109.8	3053.1	2602.5
80°	135.5	135.5	207.9	370.2	587.6	455.3	395.4	712.1	984.6	864.9	762.5
82.5°	75.6	77.2	151.2	230.0	389.1	269.4	217.4	329.3	425.4	376.5	327.7
85°	31.5	34.7	92.9	108.7	185.9	133.9	88.2	138.6	157.5	140.2	102.4
87.5°	3.2	4.7	28.4	20.5	22.1	26.8	12.6	26.8	22.1	22.1	15.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9	3624.9
2.5°	3648.6	3624.9	3565.1	3495.8	3404.4	3360.3	3300.4	3259.5	3224.8	3227.9	3196.4
5°	3719.5	3659.6	3525.7	3358.7	3150.8	3002.7	2845.1	2736.4	2648.2	2629.3	2586.8
7.5°	3817.1	3722.6	3487.9	3187.0	2835.7	2569.4	2331.6	2178.7	2070.0	2035.4	2000.7
10°	3943.2	3806.1	3439.0	2971.2	2465.5	2126.8	1871.5	1751.8	1677.8	1652.6	1633.7
12.5°	4089.7	3902.2	3374.5	2708.1	2084.2	1758.1	1595.9	1536.0	1512.4	1504.5	1499.8
15°	4274.0	4021.9	3276.8	2396.1	1761.3	1532.8	1463.5	1455.6	1458.8	1455.6	1454.1
17.5°	4493.0	4152.7	3117.7	2074.8	1543.9	1417.8	1392.6	1398.9	1406.8	1405.2	1402.1
20°	4732.4	4281.9	2914.4	1789.6	1395.8	1335.9	1321.7	1328.0	1334.3	1331.2	1329.6
22.5°	5005.0	4420.5	2689.2	1567.5	1296.5	1260.3	1244.5	1246.1	1246.1	1239.8	1236.7
25°	5331.1	4573.3	2452.9	1410.0	1220.9	1192.6	1173.7	1167.4	1157.9	1139.0	1135.8
27.5°	5720.2	4735.6	2226.0	1299.7	1161.1	1134.3	1112.2	1096.5	1072.8	1041.3	1038.2
30°	6158.1	4932.5	2033.8	1230.4	1113.8	1087.0	1061.8	1038.2	1003.5	964.1	961.0
32.5°	6673.3	5143.6	1893.6	1184.7	1071.3	1042.9	1013.0	984.6	946.8	907.4	909.0
35°	7287.7	5398.8	1811.7	1153.2	1038.2	1000.4	967.3	935.8	907.4	872.8	869.6
37.5°	7954.1	5669.8	1786.5	1137.4	1016.1	957.8	920.0	898.0	894.8	874.3	872.8
40°	8683.5	5991.2	1805.4	1128.0	992.5	916.9	875.9	871.2	879.1	842.8	844.4
42.5°	9455.4	6372.4	1836.9	1116.9	959.4	875.9	836.5	836.5	830.2	779.8	779.8
45°	10290.4	6811.9	1868.4	1090.2	920.0	834.9	805.0	794.0	767.2	718.4	716.8
47.5°	11131.6	7259.3	1892.0	1041.3	872.8	800.3	773.5	748.3	708.9	664.8	663.2
50°	11930.3	7661.1	1866.8	968.9	819.2	767.2	738.9	704.2	661.7	631.7	627.0
52.5°	12644.0	8009.2	1759.7	883.8	762.5	732.6	707.3	671.1	636.5	604.9	601.8
55°	13264.7	8291.2	1570.7	803.4	712.1	702.6	677.4	631.7	584.5	557.7	554.5
57.5°	13860.2	8505.5	1334.3	737.3	666.4	669.5	631.7	590.8	546.7	518.3	515.1
60°	14652.6	8792.2	1094.9	675.8	617.5	627.0	586.0	556.1	501.0	464.7	460.0
62.5°	15919.2	9238.0	869.6	600.2	560.8	564.0	546.7	510.4	444.3	401.7	398.6
65°	16924.3	9074.2	685.3	518.3	496.2	501.0	501.0	461.6	390.7	341.9	337.1
67.5°	16810.8	7769.8	546.7	438.0	434.8	438.0	449.0	415.9	346.6	307.2	300.9
70°	15486.0	6180.2	438.0	363.9	378.1	370.2	401.7	379.7	311.9	272.5	267.8
72.5°	12636.1	4452.0	334.0	300.9	289.9	302.5	362.3	341.9	259.9	215.8	211.1
75°	7383.8	2375.7	248.9	237.9	209.5	252.1	321.4	291.4	198.5	159.1	154.4
77.5°	2404.0	828.6	182.7	174.9	156.0	203.2	274.1	245.8	162.3	126.0	121.3
80°	644.3	250.5	124.5	115.0	100.8	151.2	217.4	195.3	116.6	81.9	80.3
82.5°	258.4	105.6	72.5	64.6	55.1	104.0	171.7	157.5	86.6	52.0	52.0
85°	83.5	34.7	26.8	20.5	25.2	64.6	102.4	107.1	61.4	26.8	20.5
87.5°	11.0	4.7	4.7	6.3	4.7	11.0	31.5	29.9	17.3	3.2	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)