

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: P948771

Luminaire Tested: **GALN-SB3D-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948771
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25690 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 218.1
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

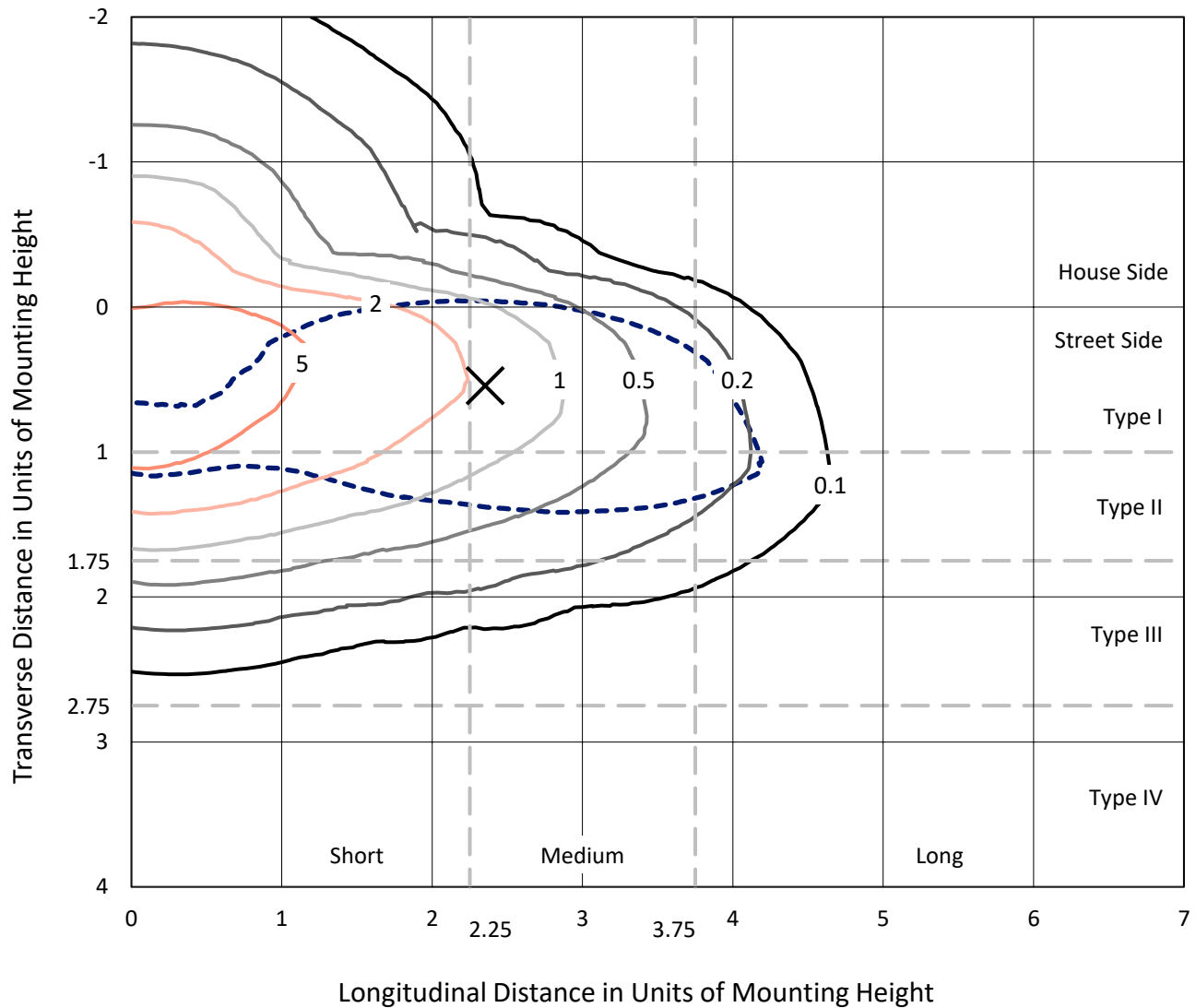


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Iso-Footcandle Lines of Horizontal Illumination

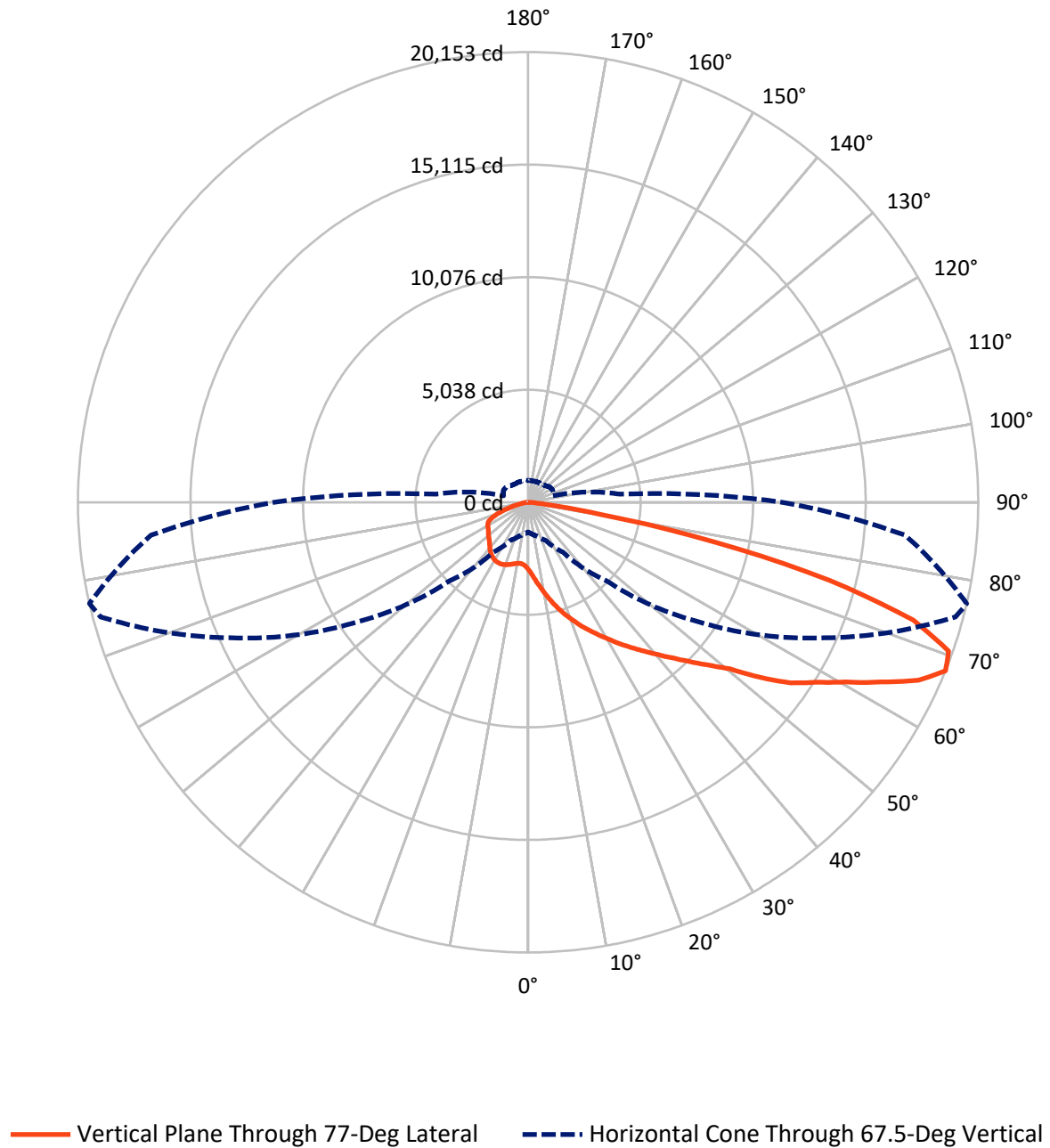
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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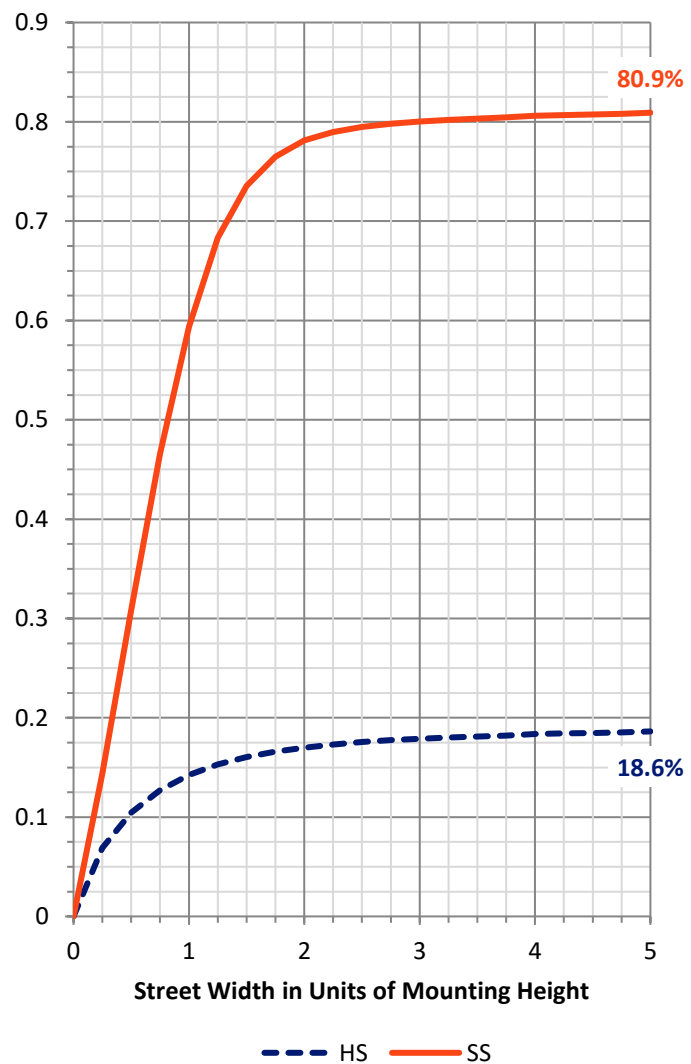
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4859.5	0.0	4859.5
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	20830.5	0.0	20830.5
	% Fixture	81.1	0.0	81.1
Total	Lumens	25690.0	0.0	25690.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.1	1.3
10°-20°	1160.7	4.5
20°-30°	2191.5	8.5
30°-40°	3530.5	13.7
40°-50°	4829.1	18.8
50°-60°	5447.3	21.2
60°-70°	5084.4	19.8
70°-80°	2787.1	10.8
80°-90°	336.2	1.3
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°	25690.0	100.0
0°-180°	25690.0	100.0

Coefficient of Utilization



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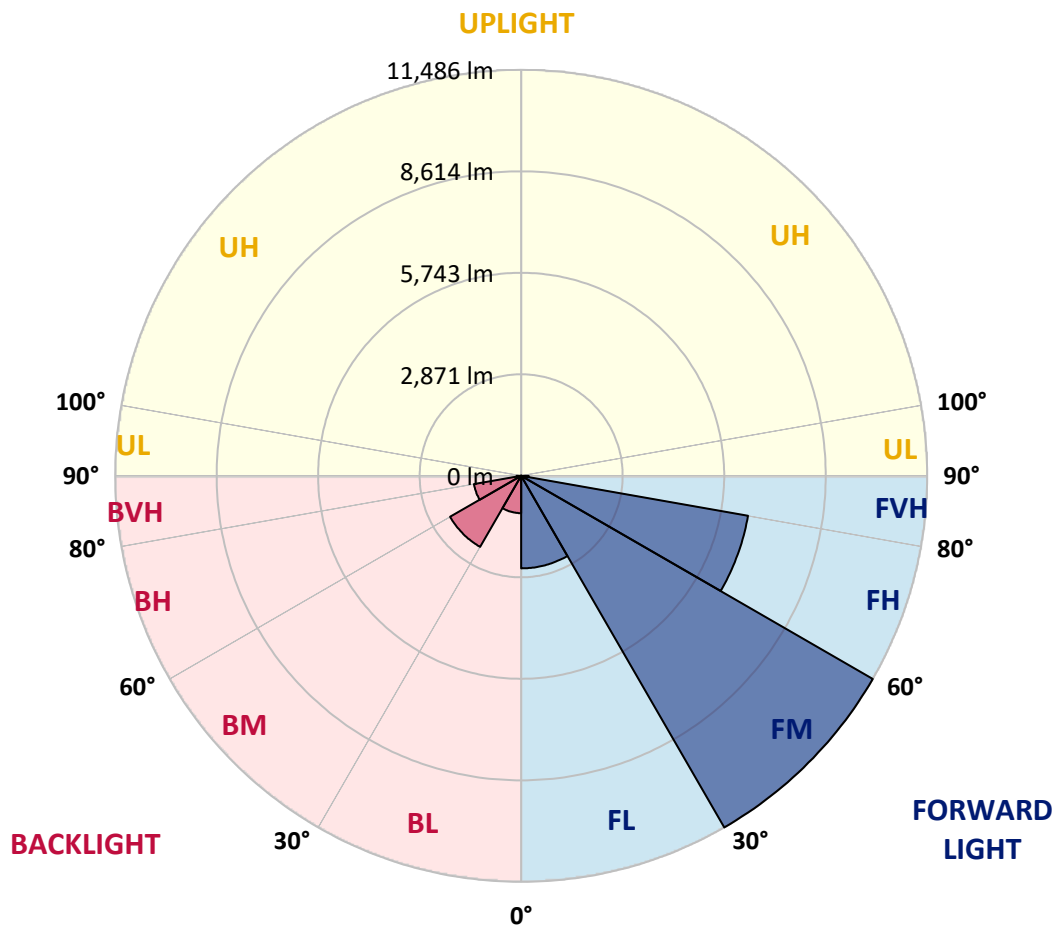
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2618.8	10.2			
FM	(30°-60°)	11485.7	44.7			
FH	(60°-80°)	6515.7	25.4			G3/7500
FVH	(80°-90°)	210.2	0.8			G2/225
BL	(0°-30°)	1056.6	4.1	B3/2500		
BM	(30°-60°)	2321.3	9.0	B2/2500		
BH	(60°-80°)	1355.7	5.3	B3/2500		G3/2500
BVH	(80°-90°)	125.9	0.5			G2/225
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°	77°	85°
0°	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2
2.5°	3774.1	3800.6	3767.5	3767.5	3656.1	3597.7	3486.3	3401.5	3249.0	3222.4	3121.6
5°	4461.0	4494.2	4447.8	4427.9	4296.6	4175.9	3988.9	3804.6	3532.7	3504.9	3267.5
7.5°	4992.8	5035.2	4994.1	4972.9	4856.2	4720.9	4502.1	4244.9	3861.6	3807.2	3463.8
10°	5426.4	5433.0	5419.8	5427.7	5336.2	5224.9	5000.7	4701.0	4222.3	4148.1	3701.2
12.5°	5671.7	5702.2	5728.8	5776.5	5760.6	5691.6	5490.1	5132.0	4604.2	4508.8	3959.7
15°	5787.1	5840.2	5899.8	6009.9	6098.8	6116.0	5962.2	5594.8	4992.8	4877.4	4221.0
17.5°	5828.2	5878.6	5972.8	6131.9	6322.9	6451.5	6382.5	6044.4	5377.4	5244.7	4495.5
20°	6036.4	6051.0	6108.0	6259.2	6466.1	6679.6	6731.3	6476.7	5757.9	5608.1	4779.3
22.5°	6482.0	6452.8	6468.7	6537.7	6686.2	6893.1	7011.1	6858.6	6149.1	5976.8	5065.7
25°	7218.0	7133.1	7048.2	6968.7	7044.3	7161.0	7294.9	7240.5	6558.9	6340.1	5354.8
27.5°	8147.6	8044.1	7857.2	7595.9	7504.4	7545.5	7605.2	7594.6	6938.2	6716.7	5653.2
30°	9062.6	8941.9	8719.1	8341.2	8099.8	7991.1	7946.0	7915.5	7350.6	7114.5	5954.2
32.5°	9793.3	9697.8	9479.0	9056.0	8705.9	8520.2	8370.4	8261.6	7781.6	7545.5	6272.5
35°	10432.5	10343.6	10093.0	9631.5	9250.9	9053.3	8857.1	8625.0	8229.8	7991.1	6614.6
37.5°	11015.9	10927.1	10583.6	10103.6	9720.3	9583.8	9408.7	9014.9	8679.4	8453.9	6976.6
40°	11384.6	11364.7	11043.8	10500.1	10102.3	10034.6	9976.3	9467.1	9178.0	8968.4	7374.5
42.5°	11478.8	11522.5	11267.9	10821.0	10441.7	10387.4	10524.0	9978.9	9737.6	9537.3	7825.3
45°	11252.0	11378.0	11210.9	10907.2	10683.1	10653.9	11009.3	10538.6	10356.9	10173.9	8369.0
47.5°	10677.8	10891.3	10822.3	10779.9	10748.1	10874.1	11436.3	11132.6	11058.4	10899.3	8989.7
50°	9518.8	9923.2	10043.9	10311.8	10619.4	11045.1	11824.9	11781.1	11877.9	11717.5	9745.5
52.5°	7515.0	8072.0	8772.2	9443.2	10224.3	10988.1	12251.9	12712.0	13120.5	13033.0	10947.0
55°	6203.5	6454.1	6992.5	8223.2	9457.8	10748.1	12444.2	13463.9	14353.8	14275.5	11858.0
57.5°	5195.7	5419.8	5751.3	6779.0	8298.8	10203.0	12563.5	13922.8	15198.5	15190.5	12757.1
60°	4114.9	4352.3	4691.8	5419.8	6944.8	9261.5	12537.0	14445.3	16276.6	16342.9	13853.8
62.5°	2894.9	3156.1	3532.7	4211.7	5561.7	8041.5	11995.9	14823.2	17545.7	17726.0	15173.3
65°	1903.0	2075.4	2359.1	2945.3	4144.1	6472.7	10962.9	14872.3	18903.6	19208.6	16411.9
67.5°	1334.1	1400.4	1567.5	1885.7	2731.8	4963.6	9317.2	14364.4	19809.3	20152.8	16948.9
70°	1041.0	1074.1	1159.0	1286.3	1716.0	3337.8	7139.7	13043.6	19615.7	19973.8	16388.0
72.5°	899.1	930.9	962.8	978.7	1151.1	2060.8	4836.3	10905.9	17792.3	18035.0	14249.0
75°	815.6	823.5	850.0	844.7	877.9	1336.7	2791.4	7946.0	14038.1	13954.6	10518.7
77.5°	685.6	696.2	740.0	733.3	779.7	913.7	1449.4	5128.0	9101.1	8533.5	5854.8
80°	580.8	586.1	633.9	625.9	677.6	661.7	740.0	2613.8	3860.3	3270.2	1688.1
82.5°	201.6	249.3	484.0	498.6	517.2	400.5	427.0	1066.2	1178.9	903.1	354.1
85°	98.1	104.8	246.7	350.1	348.8	201.6	208.2	380.6	371.3	291.7	118.0
87.5°	15.9	19.9	29.2	136.6	108.7	53.0	71.6	74.3	76.9	66.3	26.5
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°	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2	3014.2
2.5°	3047.4	2981.1	2841.8	2713.2	2612.4	2515.6	2461.2	2414.8	2388.3	2383.0	2383.0
5°	3129.6	2993.0	2739.7	2526.2	2387.0	2283.6	2229.2	2194.7	2177.5	2166.9	2165.5
7.5°	3247.6	3047.4	2686.7	2444.0	2298.1	2223.9	2196.0	2190.7	2189.4	2190.7	2194.7
10°	3410.7	3136.2	2681.4	2424.1	2302.1	2261.0	2259.7	2261.0	2266.3	2267.6	2269.0
12.5°	3587.1	3227.7	2702.6	2441.4	2352.5	2330.0	2326.0	2324.7	2328.6	2331.3	2332.6
15°	3779.4	3348.4	2738.4	2478.5	2408.2	2384.3	2380.4	2372.4	2371.1	2369.7	2368.4
17.5°	3977.0	3467.8	2778.2	2518.3	2444.0	2410.9	2396.3	2377.7	2363.1	2359.1	2363.1
20°	4177.2	3585.8	2806.0	2538.2	2446.7	2400.2	2371.1	2339.2	2314.1	2299.5	2304.8
22.5°	4390.7	3709.1	2823.3	2532.9	2422.8	2359.1	2306.1	2269.0	2230.5	2205.3	2206.6
25°	4598.9	3816.5	2821.9	2505.0	2376.4	2295.5	2227.9	2180.1	2127.1	2100.5	2100.5
27.5°	4799.2	3913.3	2788.8	2455.9	2310.1	2219.9	2139.0	2082.0	2030.3	2005.1	2003.7
30°	5006.0	3994.2	2737.1	2384.3	2231.8	2132.4	2043.5	1994.5	1948.0	1924.2	1922.9
32.5°	5211.6	4068.5	2664.1	2295.5	2141.7	2046.2	1958.7	1913.6	1885.7	1885.7	1887.0
35°	5429.1	4120.2	2567.3	2192.1	2046.2	1954.7	1885.7	1859.2	1856.5	1840.6	1836.7
37.5°	5658.5	4153.4	2449.3	2086.0	1952.0	1865.8	1844.6	1812.8	1786.3	1751.8	1746.5
40°	5899.8	4186.5	2307.4	1975.9	1852.6	1804.8	1795.5	1753.1	1677.5	1592.7	1580.7
42.5°	6192.9	4209.1	2160.2	1865.8	1747.8	1731.9	1745.2	1672.2	1551.5	1487.9	1489.2
45°	6532.4	4246.2	2025.0	1757.1	1640.4	1640.4	1696.1	1600.6	1501.2	1461.4	1468.0
47.5°	6972.7	4332.4	1899.0	1637.7	1540.9	1567.5	1587.3	1514.4	1458.7	1409.6	1408.3
50°	7609.2	4539.3	1769.0	1517.1	1465.3	1518.4	1490.5	1448.1	1383.1	1343.3	1339.4
52.5°	8399.5	4661.3	1653.7	1408.3	1400.4	1453.4	1413.6	1373.8	1324.8	1271.7	1261.1
55°	8937.9	4683.8	1556.8	1328.8	1356.6	1351.3	1336.7	1300.9	1274.4	1204.1	1205.4
57.5°	9540.0	4728.9	1477.3	1281.0	1328.8	1270.4	1265.1	1234.6	1200.1	1152.4	1136.5
60°	10260.1	4799.2	1408.3	1262.5	1304.9	1217.4	1190.8	1178.9	1144.4	1120.6	1127.2
62.5°	11045.1	4862.8	1338.0	1265.1	1277.0	1165.6	1125.9	1121.9	1100.7	1092.7	1092.7
65°	11580.9	4689.1	1250.5	1262.5	1233.3	1112.6	1062.2	1060.9	1043.6	1041.0	1039.7
67.5°	11393.9	4138.8	1132.5	1225.3	1188.2	1059.6	1003.9	998.6	976.0	977.3	977.3
70°	10457.7	3353.7	969.4	1133.8	1132.5	1011.8	942.9	925.6	895.1	900.4	905.7
72.5°	8701.9	2485.1	750.6	981.3	1043.6	968.1	872.6	844.7	806.3	811.6	810.2
75°	6284.4	1689.5	546.4	746.6	908.4	916.3	803.6	755.9	709.5	717.4	720.1
77.5°	3215.8	957.4	401.8	514.5	713.4	832.8	741.3	677.6	667.0	741.3	730.7
80°	1048.9	480.0	278.5	360.7	468.1	681.6	649.8	576.9	574.2	591.4	507.9
82.5°	313.0	202.9	179.0	237.4	258.6	522.5	560.9	436.3	375.3	395.2	408.4
85°	107.4	98.1	102.1	118.0	123.3	306.3	392.5	289.1	273.2	301.0	297.0
87.5°	25.2	34.5	29.2	26.5	26.5	74.3	152.5	120.7	167.1	111.4	107.4
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)