

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: P953769

Luminaire Tested: **GALN-SB7B-722-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P953769
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-SB7B-722-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33695 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

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



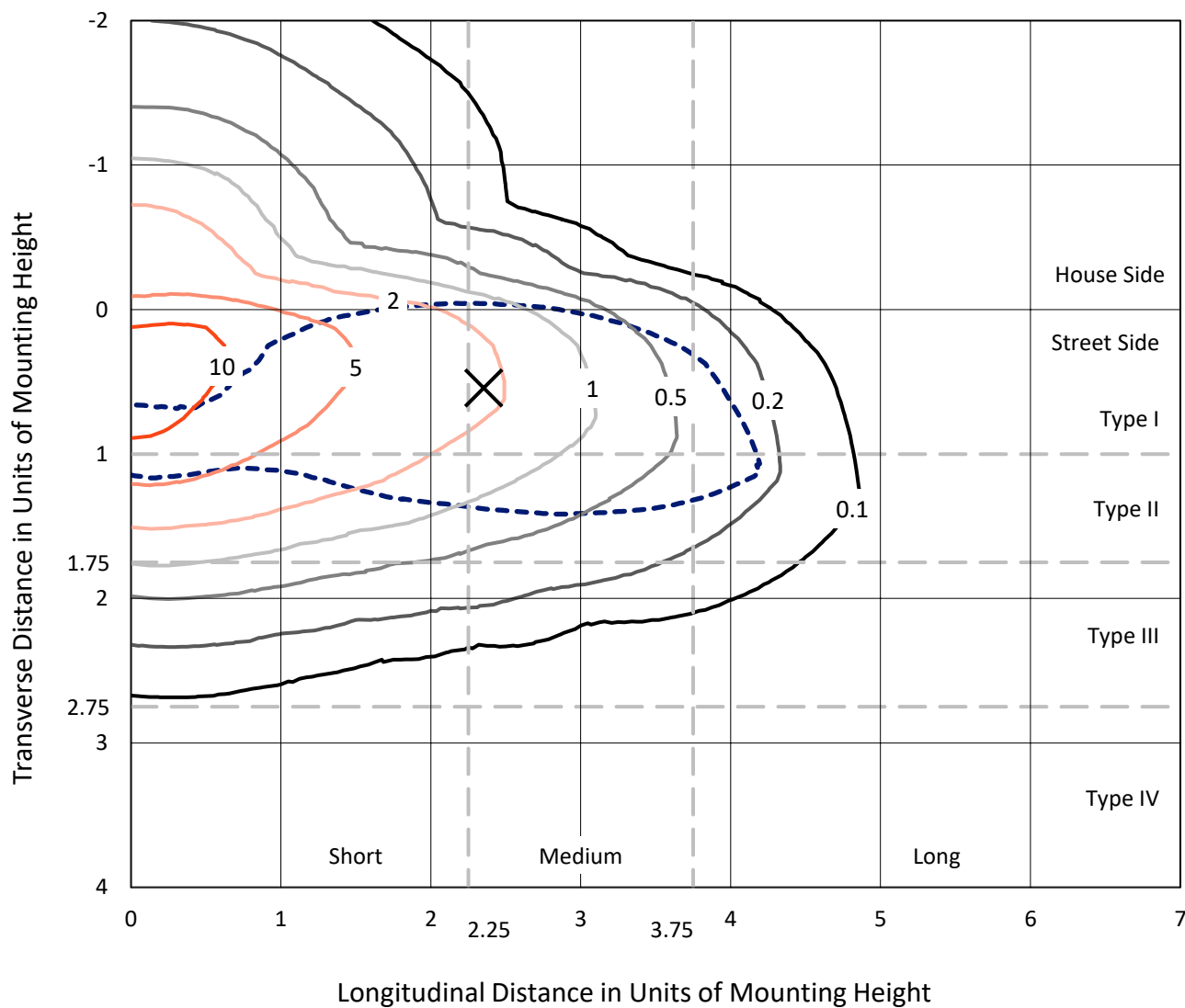
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Iso-Footcandle Lines of Horizontal Illumination

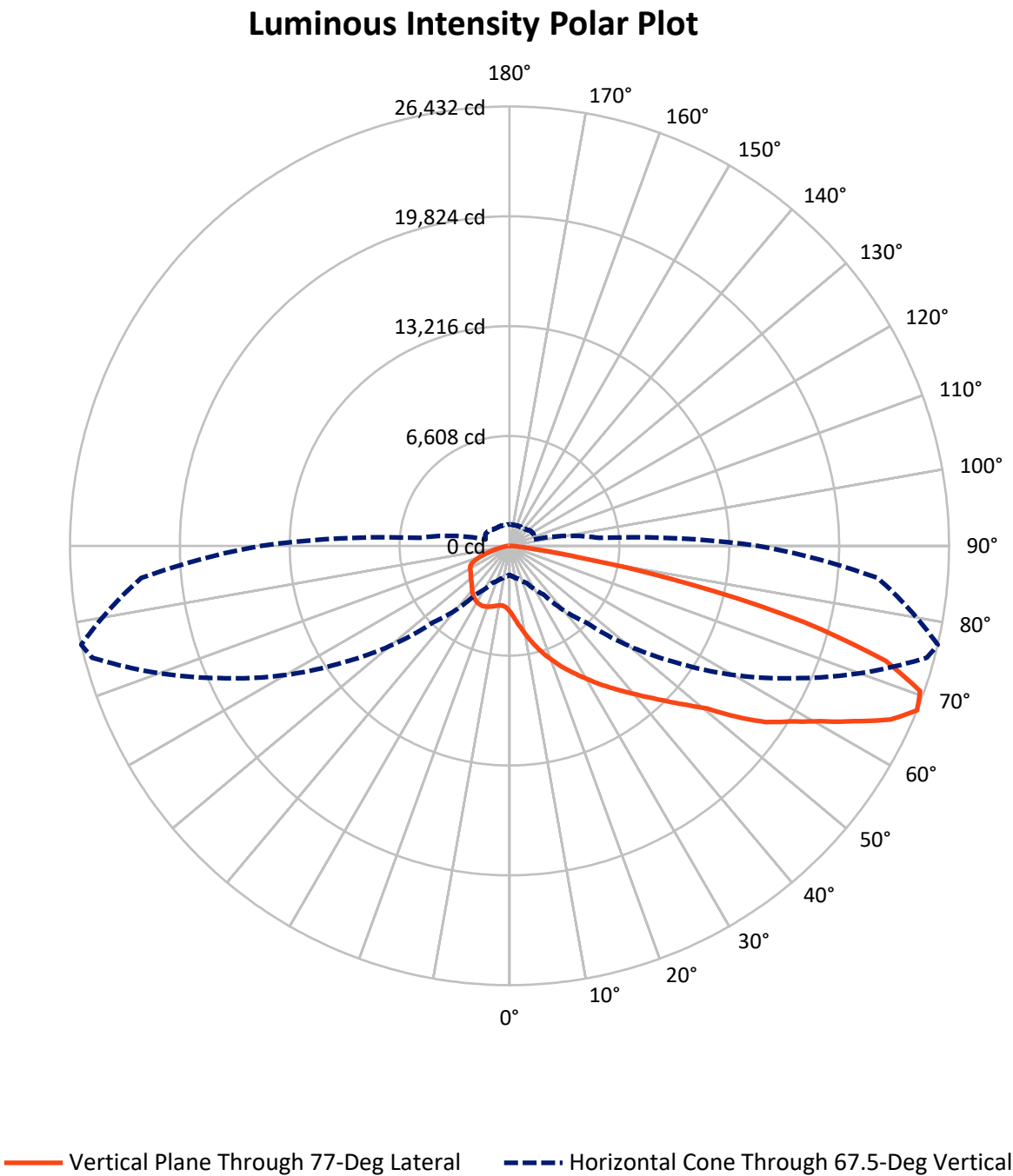
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
Type II - Medium - N/A

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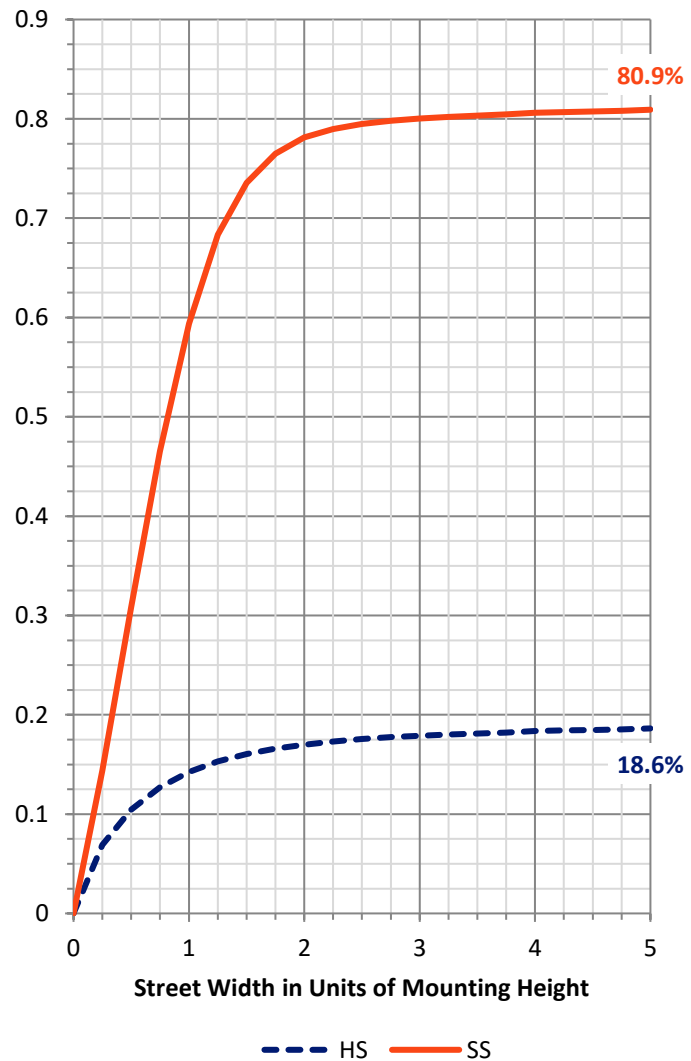
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6373.7	0.0	6373.7
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	27321.3	0.0	27321.3
	% Fixture	81.1	0.0	81.1
Total	Lumens	33695.0	0.0	33695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.8	1.3
10°-20°	1522.4	4.5
20°-30°	2874.4	8.5
30°-40°	4630.7	13.7
40°-50°	6333.9	18.8
50°-60°	7144.7	21.2
60°-70°	6668.7	19.8
70°-80°	3655.6	10.8
80°-90°	440.9	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°	33695.0	100.0
0°-180°	33695.0	100.0

Coefficient of Utilization



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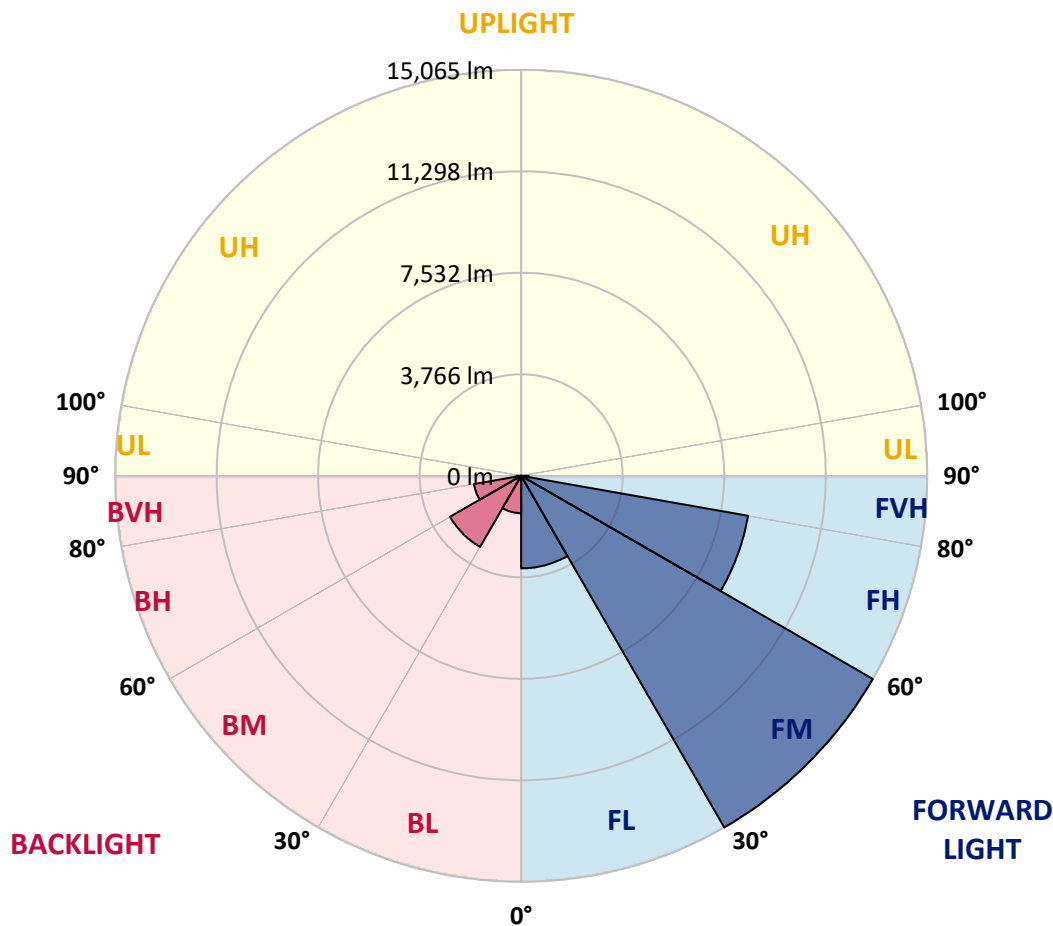
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3434.8	10.2			
FM	(30°-60°)	15064.7	44.7			
FH	(60°-80°)	8546.0	25.4			G4/12000
FVH	(80°-90°)	275.8	0.8			G3/500
BL	(0°-30°)	1385.8	4.1	B3/2500		
BM	(30°-60°)	3044.6	9.0	B3/5000		
BH	(60°-80°)	1778.2	5.3	B3/2500		G3/2500
BVH	(80°-90°)	165.2	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
2.5°	4950.1	4984.9	4941.4	4941.4	4795.3	4718.8	4572.7	4461.4	4261.3	4226.5	4094.4
5°	5851.1	5894.5	5833.7	5807.6	5635.4	5477.1	5231.9	4990.1	4633.5	4597.0	4285.7
7.5°	6548.5	6604.2	6550.3	6522.4	6369.4	6192.0	5905.0	5567.6	5064.9	4993.6	4543.1
10°	7117.3	7126.0	7108.6	7119.0	6999.0	6852.9	6559.0	6165.9	5538.0	5440.6	4854.4
12.5°	7439.1	7479.1	7513.9	7576.5	7555.6	7465.2	7200.8	6731.2	6038.9	5913.7	5193.6
15°	7590.4	7660.0	7738.2	7882.6	7999.1	8021.7	7820.0	7338.2	6548.5	6397.2	5536.2
17.5°	7644.3	7710.4	7833.9	8042.6	8293.1	8461.8	8371.3	7927.8	7052.9	6879.0	5896.3
20°	7917.4	7936.5	8011.3	8209.6	8480.9	8760.9	8828.8	8494.8	7552.1	7355.6	6268.5
22.5°	8501.8	8463.5	8484.4	8574.8	8769.6	9041.0	9195.8	8995.8	8065.2	7839.1	6644.2
25°	9467.1	9355.8	9244.5	9140.1	9239.3	9392.3	9568.0	9496.7	8602.7	8315.7	7023.4
27.5°	10686.4	10550.7	10305.5	9962.8	9842.8	9896.7	9975.0	9961.1	9100.1	8809.6	7414.7
30°	11886.5	11728.2	11436.0	10940.3	10623.8	10481.1	10422.0	10382.0	9641.0	9331.4	7809.5
32.5°	12844.9	12719.6	12432.6	11877.8	11418.6	11175.1	10978.6	10836.0	10206.3	9896.7	8227.0
35°	13683.2	13566.7	13238.0	12632.7	12133.5	11874.3	11616.9	11312.5	10794.2	10481.1	8675.7
37.5°	14448.5	14332.0	13881.5	13251.9	12749.2	12570.1	12340.5	11823.9	11383.8	11088.2	9150.6
40°	14932.0	14906.0	14485.0	13771.9	13250.1	13161.4	13084.9	12417.0	12037.8	11763.0	9672.3
42.5°	15055.5	15112.9	14779.0	14192.8	13695.4	13624.1	13803.2	13088.4	12771.8	12509.2	10263.7
45°	14758.1	14923.4	14704.2	14305.9	14011.9	13973.7	14439.8	13822.4	13584.1	13344.0	10976.8
47.5°	14005.0	14285.0	14194.6	14138.9	14097.2	14262.4	14999.9	14601.6	14504.2	14295.5	11790.8
50°	12484.8	13015.3	13173.6	13524.9	13928.5	14486.8	15509.5	15452.1	15579.1	15368.6	12782.2
52.5°	9856.7	10587.2	11505.6	12385.7	13410.1	14412.0	16069.6	16673.1	17208.8	17094.0	14358.1
55°	8136.5	8465.3	9171.4	10785.5	12404.8	14097.2	16321.8	17659.3	18826.4	18723.8	15553.0
57.5°	6814.6	7108.6	7543.4	8891.4	10884.7	13382.3	16478.3	18261.1	19934.3	19923.9	16732.2
60°	5397.1	5708.4	6153.7	7108.6	9108.8	12147.4	16443.5	18946.4	21348.4	21435.4	18170.7
62.5°	3796.9	4139.6	4633.5	5524.1	7294.7	10547.2	15733.9	19442.1	23012.9	23249.5	19901.3
65°	2495.9	2722.0	3094.2	3863.0	5435.4	8489.6	14378.9	19506.5	24794.0	25194.0	21525.8
67.5°	1749.8	1836.7	2055.9	2473.3	3583.0	6510.3	12220.4	18840.3	25981.9	26432.4	22230.2
70°	1365.4	1408.8	1520.2	1687.1	2250.7	4377.9	9364.5	17107.9	25728.0	26197.6	21494.5
72.5°	1179.3	1221.0	1262.7	1283.6	1509.7	2702.9	6343.3	14304.2	23336.4	23654.7	18689.0
75°	1069.7	1080.1	1114.9	1107.9	1151.4	1753.2	3661.3	10422.0	18412.4	18302.8	13796.3
77.5°	899.2	913.1	970.5	961.8	1022.7	1198.4	1901.1	6725.9	11936.9	11192.5	7679.1
80°	761.8	768.8	831.4	821.0	888.8	867.9	970.5	3428.2	5063.2	4289.2	2214.2
82.5°	264.4	327.0	634.9	654.0	678.3	525.3	560.1	1398.4	1546.3	1184.5	464.4
85°	128.7	137.4	323.5	459.2	457.4	264.4	273.1	499.2	487.0	382.7	154.8
87.5°	20.9	26.1	38.3	179.1	142.6	69.6	93.9	97.4	100.9	87.0	34.8
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°	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5	3953.5
2.5°	3997.0	3910.0	3727.4	3558.6	3426.5	3299.5	3228.2	3167.3	3132.5	3125.6	3125.6
5°	4104.8	3925.6	3593.4	3313.4	3130.8	2995.1	2923.8	2878.6	2856.0	2842.0	2840.3
7.5°	4259.6	3997.0	3523.9	3205.6	3014.2	2916.8	2880.3	2873.4	2871.6	2873.4	2878.6
10°	4473.5	4113.5	3516.9	3179.5	3019.5	2965.5	2963.8	2965.5	2972.5	2974.2	2976.0
12.5°	4704.9	4233.5	3544.7	3202.1	3085.6	3056.0	3050.8	3049.0	3054.2	3057.7	3059.5
15°	4957.1	4391.8	3591.7	3250.8	3158.6	3127.3	3122.1	3111.6	3109.9	3108.2	3106.4
17.5°	5216.2	4548.3	3643.9	3303.0	3205.6	3162.1	3142.9	3118.6	3099.5	3094.2	3099.5
20°	5478.9	4703.1	3680.4	3329.1	3209.0	3148.2	3109.9	3068.2	3035.1	3016.0	3022.9
22.5°	5758.9	4864.9	3703.0	3322.1	3177.7	3094.2	3024.7	2976.0	2925.5	2892.5	2894.2
25°	6032.0	5005.8	3701.3	3285.6	3116.9	3010.8	2922.1	2859.4	2789.9	2755.1	2755.1
27.5°	6294.6	5132.7	3657.8	3221.2	3029.9	2911.6	2805.5	2730.7	2662.9	2629.8	2628.1
30°	6565.9	5238.8	3590.0	3127.3	2927.3	2796.8	2680.3	2615.9	2555.1	2523.8	2522.0
32.5°	6835.5	5336.2	3494.3	3010.8	2809.0	2683.8	2569.0	2509.8	2473.3	2473.3	2475.0
35°	7120.8	5404.1	3367.3	2875.1	2683.8	2563.8	2473.3	2438.5	2435.0	2414.2	2409.0
37.5°	7421.7	5447.5	3212.5	2735.9	2560.3	2447.2	2419.4	2377.6	2342.9	2297.6	2290.7
40°	7738.2	5491.0	3026.4	2591.6	2429.8	2367.2	2355.0	2299.4	2200.2	2088.9	2073.3
42.5°	8122.6	5520.6	2833.3	2447.2	2292.4	2271.5	2288.9	2193.3	2035.0	1951.5	1953.3
45°	8567.9	5569.3	2655.9	2304.6	2151.5	2151.5	2224.6	2099.4	1968.9	1916.7	1925.4
47.5°	9145.3	5682.4	2490.7	2148.1	2021.1	2055.9	2082.0	1986.3	1913.3	1848.9	1847.2
50°	9980.2	5953.7	2320.3	1989.8	1921.9	1991.5	1955.0	1899.3	1814.1	1761.9	1756.7
52.5°	11016.8	6113.7	2168.9	1847.2	1836.7	1906.3	1854.1	1801.9	1737.6	1668.0	1654.1
55°	11723.0	6143.3	2042.0	1742.8	1779.3	1772.4	1753.2	1706.3	1671.5	1579.3	1581.0
57.5°	12512.7	6202.4	1937.6	1680.2	1742.8	1666.3	1659.3	1619.3	1574.1	1511.5	1490.6
60°	13457.1	6294.6	1847.2	1655.8	1711.5	1596.7	1561.9	1546.3	1501.0	1469.7	1478.4
62.5°	14486.8	6378.1	1755.0	1659.3	1675.0	1528.9	1476.7	1471.5	1443.6	1433.2	1433.2
65°	15189.5	6150.2	1640.2	1655.8	1617.6	1459.3	1393.2	1391.5	1368.8	1365.4	1363.6
67.5°	14944.2	5428.4	1485.4	1607.1	1558.4	1389.7	1316.7	1309.7	1280.1	1281.9	1281.9
70°	13716.3	4398.7	1271.4	1487.1	1485.4	1327.1	1236.7	1214.0	1174.0	1181.0	1188.0
72.5°	11413.4	3259.5	984.5	1287.1	1368.8	1269.7	1144.5	1107.9	1057.5	1064.5	1062.7
75°	8242.6	2215.9	716.6	979.2	1191.4	1201.9	1054.0	991.4	930.5	941.0	944.4
77.5°	4217.8	1255.8	527.0	674.9	935.8	1092.3	972.3	888.8	874.9	972.3	958.4
80°	1375.8	629.6	365.3	473.1	614.0	894.0	852.3	756.6	753.1	775.7	666.2
82.5°	410.5	266.1	234.8	311.3	339.2	685.3	735.7	572.2	492.2	518.3	535.7
85°	140.9	128.7	133.9	154.8	161.8	401.8	514.8	379.2	358.3	394.8	389.6
87.5°	33.0	45.2	38.3	34.8	34.8	97.4	200.0	158.3	219.2	146.1	140.9
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)