

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: P940779

Luminaire Tested: **GALN-SB4A-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17769 lumens
Efficiency: N/A
Efficacy: 155.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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

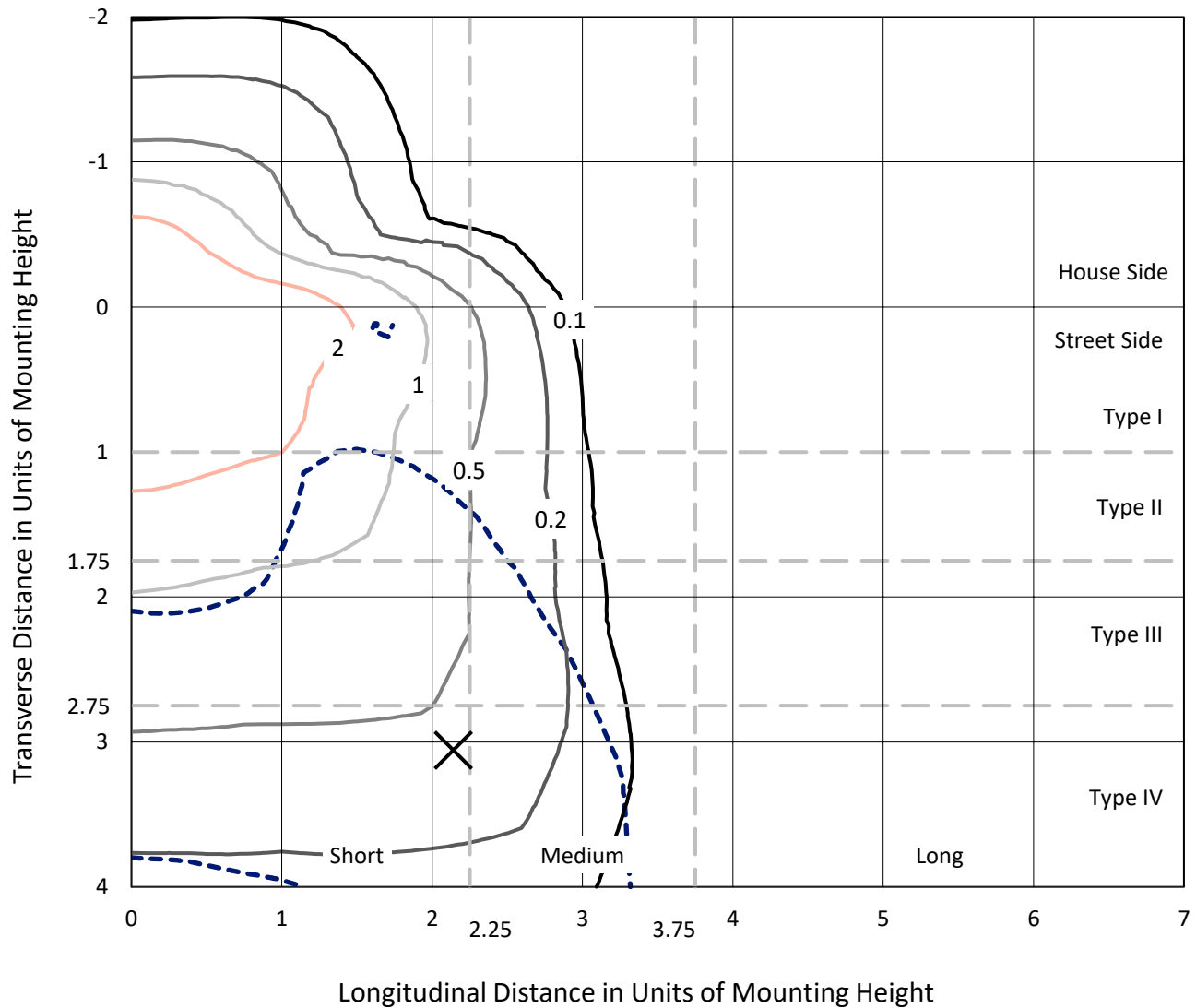


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

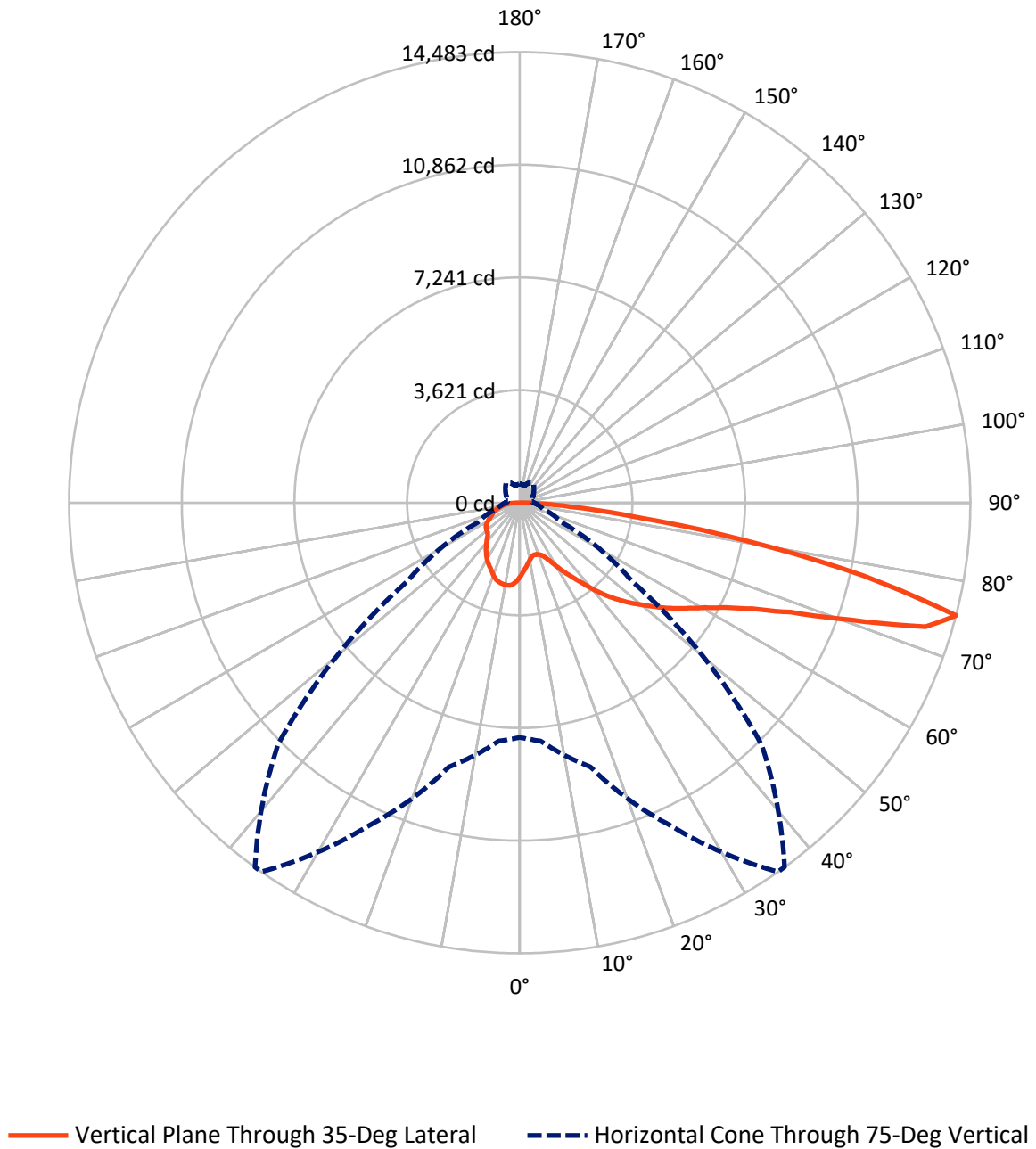


Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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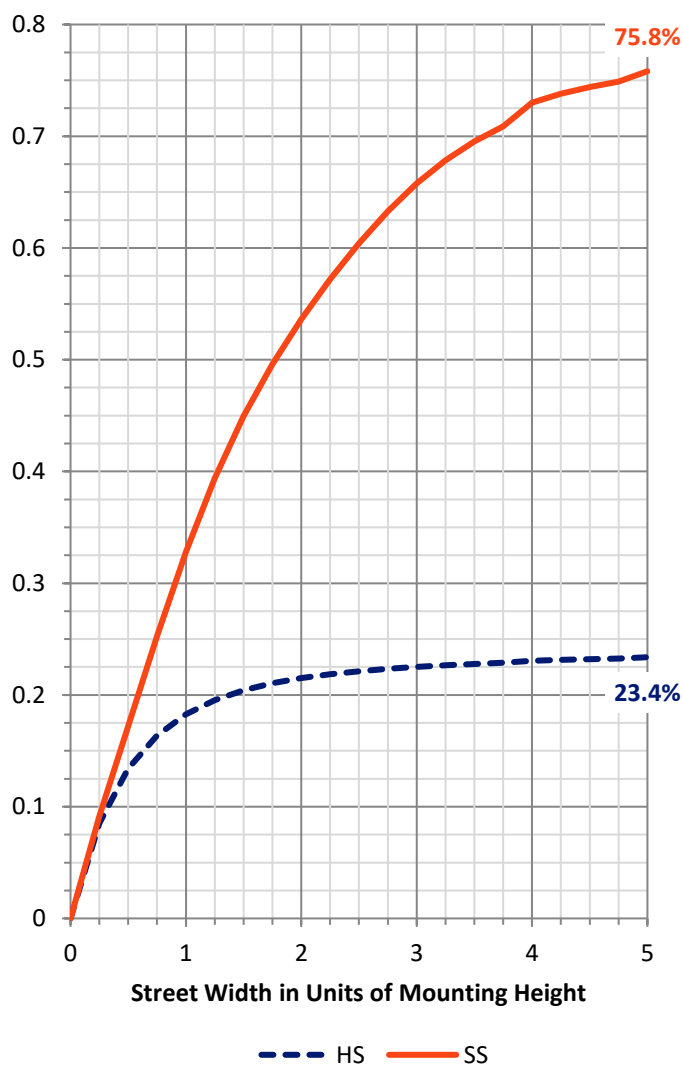
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4228.6	0.0	4228.6
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	13540.4	0.0	13540.4
	% Fixture	76.2	0.0	76.2
Total	Lumens	17769.0	0.0	17769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.2	1.3
10°-20°	646.7	3.6
20°-30°	1085.9	6.1
30°-40°	1687.6	9.5
40°-50°	2504.9	14.1
50°-60°	3458.2	19.5
60°-70°	4195.5	23.6
70°-80°	3467.3	19.5
80°-90°	498.7	2.8
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°	17769.0	100.0
0°-180°	17769.0	100.0

Coefficient of Utilization



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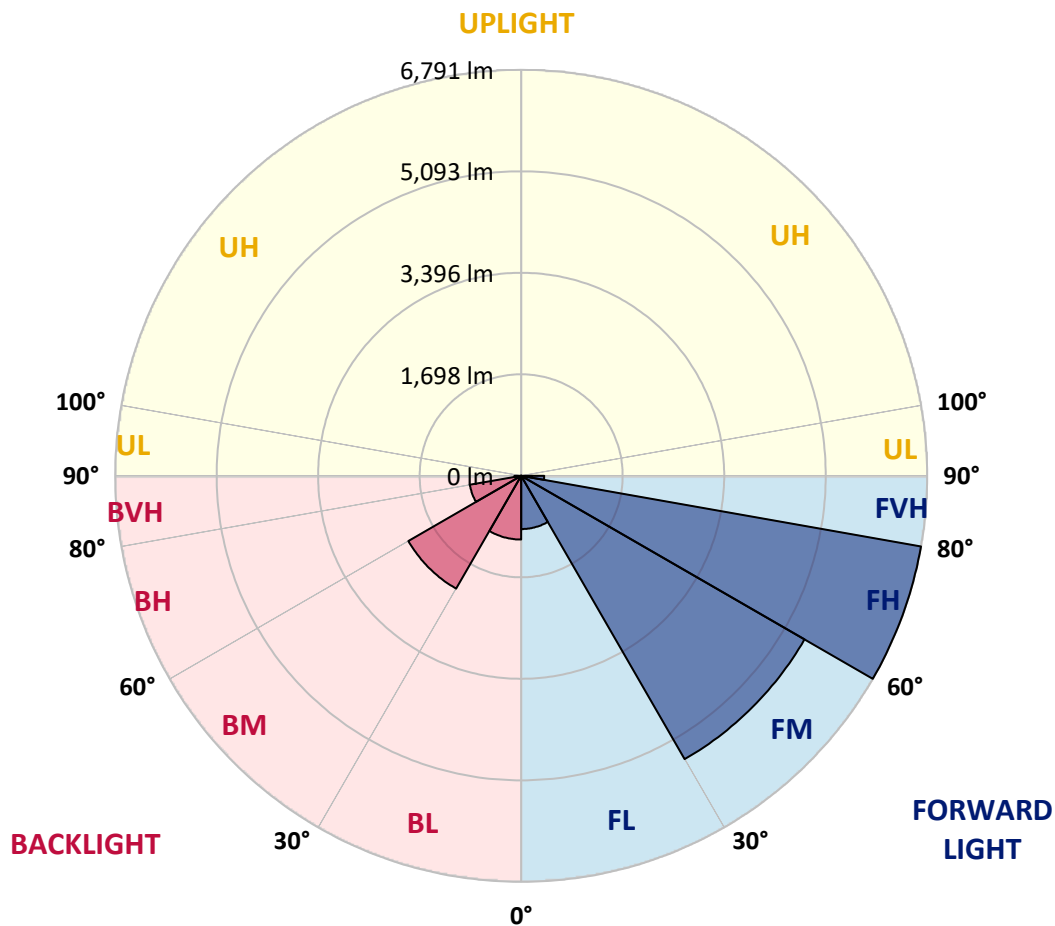
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	891.1	5.0			
FM	(30°-60°)	5471.9	30.8			
FH	(60°-80°)	6791.0	38.2			G3/7500
FVH	(80°-90°)	386.4	2.2			G3/500
BL	(0°-30°)	1065.7	6.0	B3/2500		
BM	(30°-60°)	2178.8	12.3	B2/2500		
BH	(60°-80°)	871.8	4.9	B2/1000		G2/1000
BVH	(80°-90°)	112.3	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2183.4	2196.9	2202.6	2199.7	2214.1	2212.2	2232.4	2257.4	2292.0	2325.6	2374.6
5°	2015.3	2029.7	2042.2	2053.7	2081.6	2090.2	2121.9	2170.0	2233.4	2297.7	2378.4
7.5°	1858.7	1871.2	1890.4	1911.6	1958.6	1967.3	2020.1	2095.0	2183.4	2277.5	2389.0
10°	1731.0	1743.5	1763.6	1787.6	1846.2	1856.8	1924.0	2024.0	2139.2	2258.3	2400.5
12.5°	1676.2	1680.1	1691.6	1715.6	1766.5	1773.2	1847.2	1961.5	2096.0	2243.9	2417.8
15°	1673.3	1681.0	1682.0	1694.5	1736.7	1739.6	1807.8	1921.2	2069.1	2241.0	2443.7
17.5°	1702.2	1707.9	1699.3	1707.0	1742.5	1747.3	1801.1	1902.0	2060.5	2253.5	2487.9
20°	1779.0	1783.8	1757.9	1747.3	1773.2	1777.1	1829.9	1914.4	2069.1	2279.5	2548.4
22.5°	1942.3	1945.2	1881.8	1838.6	1840.5	1842.4	1888.5	1965.4	2102.7	2326.5	2625.3
25°	2196.9	2194.9	2094.1	2010.5	1962.5	1951.9	1982.6	2048.0	2159.4	2389.0	2724.2
27.5°	2494.6	2480.2	2379.4	2254.5	2149.8	2134.4	2127.7	2155.6	2240.1	2471.6	2845.2
30°	2830.8	2817.4	2708.8	2545.5	2400.5	2375.5	2312.1	2297.7	2360.2	2584.0	3013.4
32.5°	3199.7	3191.1	3061.4	2863.5	2669.5	2640.6	2534.0	2495.6	2544.6	2754.0	3247.7
35°	3509.0	3501.3	3393.7	3190.1	2952.8	2917.3	2808.7	2765.5	2790.5	2972.0	3554.2
37.5°	3788.5	3784.7	3692.5	3532.1	3287.1	3243.9	3121.9	3107.5	3102.7	3259.3	3925.9
40°	4047.9	4038.3	3942.2	3857.7	3676.2	3636.8	3529.2	3516.7	3480.2	3612.8	4346.6
42.5°	4335.1	4310.1	4170.9	4131.5	4082.5	4049.8	3985.5	3987.4	3906.7	4011.4	4792.4
45°	4569.5	4555.1	4412.0	4388.9	4441.7	4428.3	4484.0	4498.4	4341.8	4429.3	5255.4
47.5°	4821.2	4807.7	4686.7	4670.4	4813.5	4817.3	5014.2	5019.1	4766.4	4863.4	5719.3
50°	5131.4	5112.2	4992.2	5012.3	5172.7	5187.2	5547.4	5514.7	5157.4	5304.3	6179.4
52.5°	5336.0	5347.6	5321.6	5354.3	5573.3	5586.8	6071.9	5988.3	5544.5	5739.5	6630.9
55°	5486.9	5509.9	5590.6	5665.5	5996.0	6009.4	6566.6	6438.8	5865.3	6142.9	7055.5
57.5°	5680.9	5648.2	5799.0	5945.1	6397.5	6433.0	7047.8	6873.0	6149.7	6490.7	7346.5
60°	5959.5	5936.4	6053.6	6269.7	6847.0	6903.7	7556.9	7263.9	6358.1	6766.4	7403.2
62.5°	6524.3	6466.7	6484.9	6676.1	7413.8	7488.7	8131.3	7604.9	6461.8	6873.9	7099.7
65°	7368.6	7269.7	7177.5	7310.0	8212.0	8286.0	8779.7	7872.9	6423.4	6665.5	6293.7
67.5°	8432.0	8334.0	8220.7	8345.6	9387.8	9446.4	9579.9	8023.8	6120.8	5862.4	4869.2
70°	9309.0	9272.5	9408.0	9921.9	11265.7	11267.6	10605.8	7898.9	5291.9	4156.4	2817.4
72.5°	9192.8	9170.7	9884.4	11473.2	13632.6	13581.7	11577.0	6953.7	3564.7	1875.1	1055.7
75°	7541.5	7684.7	8790.3	11445.4	14482.7	14476.0	10982.4	4420.6	1474.5	777.1	545.6
77.5°	4044.1	4270.8	5706.8	8450.3	11306.1	11476.1	7721.2	1546.5	633.0	497.6	377.5
80°	1318.9	1516.8	2274.7	4302.5	7346.5	7314.8	3309.2	607.1	433.2	352.5	261.3
82.5°	560.0	583.1	1016.3	2031.6	3770.3	3711.7	1053.8	348.7	304.5	241.1	161.4
85°	219.0	244.9	448.6	939.5	1633.0	1597.5	380.4	172.9	195.0	157.5	96.1
87.5°	72.0	87.4	160.4	321.8	508.1	489.9	93.2	59.6	84.5	72.0	34.6
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8	2367.8
2.5°	2388.0	2403.4	2421.6	2448.5	2471.6	2490.8	2511.0	2523.5	2528.3	2542.7	2541.7
5°	2405.3	2438.9	2484.1	2528.3	2571.5	2597.4	2620.5	2632.0	2642.6	2650.3	2652.2
7.5°	2434.1	2477.3	2548.4	2606.1	2642.6	2663.7	2679.1	2675.2	2679.1	2681.0	2683.9
10°	2459.1	2519.6	2604.1	2658.9	2686.8	2687.7	2683.9	2670.4	2663.7	2664.7	2666.6
12.5°	2488.9	2556.1	2647.4	2693.5	2701.2	2680.0	2663.7	2640.6	2632.0	2628.2	2626.2
15°	2529.2	2606.1	2694.4	2711.7	2692.5	2665.6	2637.8	2600.3	2581.1	2565.7	2570.5
17.5°	2578.2	2662.7	2730.9	2718.5	2677.1	2633.0	2587.8	2531.1	2491.8	2475.4	2476.4
20°	2646.4	2722.3	2758.8	2704.0	2641.6	2574.4	2497.5	2428.4	2391.9	2375.5	2373.6
22.5°	2729.0	2802.0	2785.7	2679.1	2590.7	2483.1	2387.1	2336.1	2317.9	2306.4	2308.3
25°	2828.0	2890.4	2804.9	2642.6	2507.1	2362.1	2288.1	2271.8	2263.1	2254.5	2254.5
27.5°	2956.7	2990.3	2819.3	2588.8	2376.5	2233.4	2206.5	2209.3	2206.5	2192.1	2194.9
30°	3126.7	3120.0	2832.8	2501.4	2226.6	2117.1	2119.0	2131.5	2133.5	2123.9	2128.7
32.5°	3350.5	3282.3	2839.5	2388.0	2083.5	2015.3	2017.2	2030.7	2040.3	2024.0	2031.6
35°	3621.4	3471.6	2828.9	2245.8	1973.0	1918.3	1903.9	1907.7	1910.6	1895.2	1905.8
37.5°	3937.4	3683.8	2781.9	2088.3	1881.8	1823.2	1792.4	1766.5	1751.1	1736.7	1746.3
40°	4284.2	3915.3	2695.4	1934.6	1780.0	1722.3	1676.2	1627.2	1575.4	1556.1	1564.8
42.5°	4647.3	4153.6	2590.7	1787.6	1662.8	1615.7	1566.7	1495.6	1417.8	1378.4	1383.2
45°	5023.9	4397.6	2487.9	1642.6	1542.7	1522.5	1465.9	1380.4	1295.8	1245.9	1242.0
47.5°	5392.7	4628.1	2337.1	1496.6	1430.3	1452.4	1408.2	1329.4	1235.3	1156.5	1147.9
50°	5745.3	4844.2	2090.2	1348.7	1339.1	1431.3	1389.0	1275.7	1168.1	1067.2	1058.6
52.5°	6094.9	5019.1	1774.2	1214.2	1290.1	1425.5	1364.0	1239.2	1107.6	1001.9	990.4
55°	6391.7	5109.3	1469.7	1098.9	1219.0	1376.5	1334.3	1195.9	1022.1	909.7	900.1
57.5°	6560.8	5036.3	1216.1	985.6	1121.0	1295.8	1283.3	1103.7	920.2	833.8	822.3
60°	6487.8	4740.5	1008.6	886.6	1027.8	1208.4	1195.0	1012.5	842.4	760.8	749.3
62.5°	6085.3	4176.6	844.4	800.2	943.3	1119.1	1106.6	942.3	782.9	704.1	691.6
65°	5274.6	3397.6	716.6	728.1	857.8	1011.5	1029.7	883.7	735.8	659.0	646.5
67.5°	4022.9	2461.0	616.7	665.7	774.2	905.8	958.7	841.5	696.4	623.4	611.9
70°	2292.9	1397.6	532.2	605.2	700.3	807.9	903.9	807.9	654.2	593.6	586.0
72.5°	869.3	641.7	460.1	544.7	629.2	725.2	843.4	755.0	605.2	560.0	552.3
75°	464.0	391.0	387.1	473.6	547.5	644.6	767.5	703.1	568.7	591.7	610.9
77.5°	316.0	276.6	323.7	405.4	458.2	555.2	686.8	624.4	492.8	490.9	452.4
80°	219.0	196.0	263.2	326.6	354.5	466.8	599.4	536.0	401.5	374.6	358.3
82.5°	131.6	127.8	196.9	244.0	250.7	360.2	496.6	449.6	328.5	286.3	288.2
85°	72.0	75.9	125.8	143.1	146.0	251.7	389.0	347.7	252.6	212.3	214.2
87.5°	20.2	25.9	46.1	56.7	70.1	130.6	231.5	206.5	126.8	88.4	88.4
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)