

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: P939914

Luminaire Tested: **GALN-SB2D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939914
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-SB2D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 900mA 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: 13783 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 147.6
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

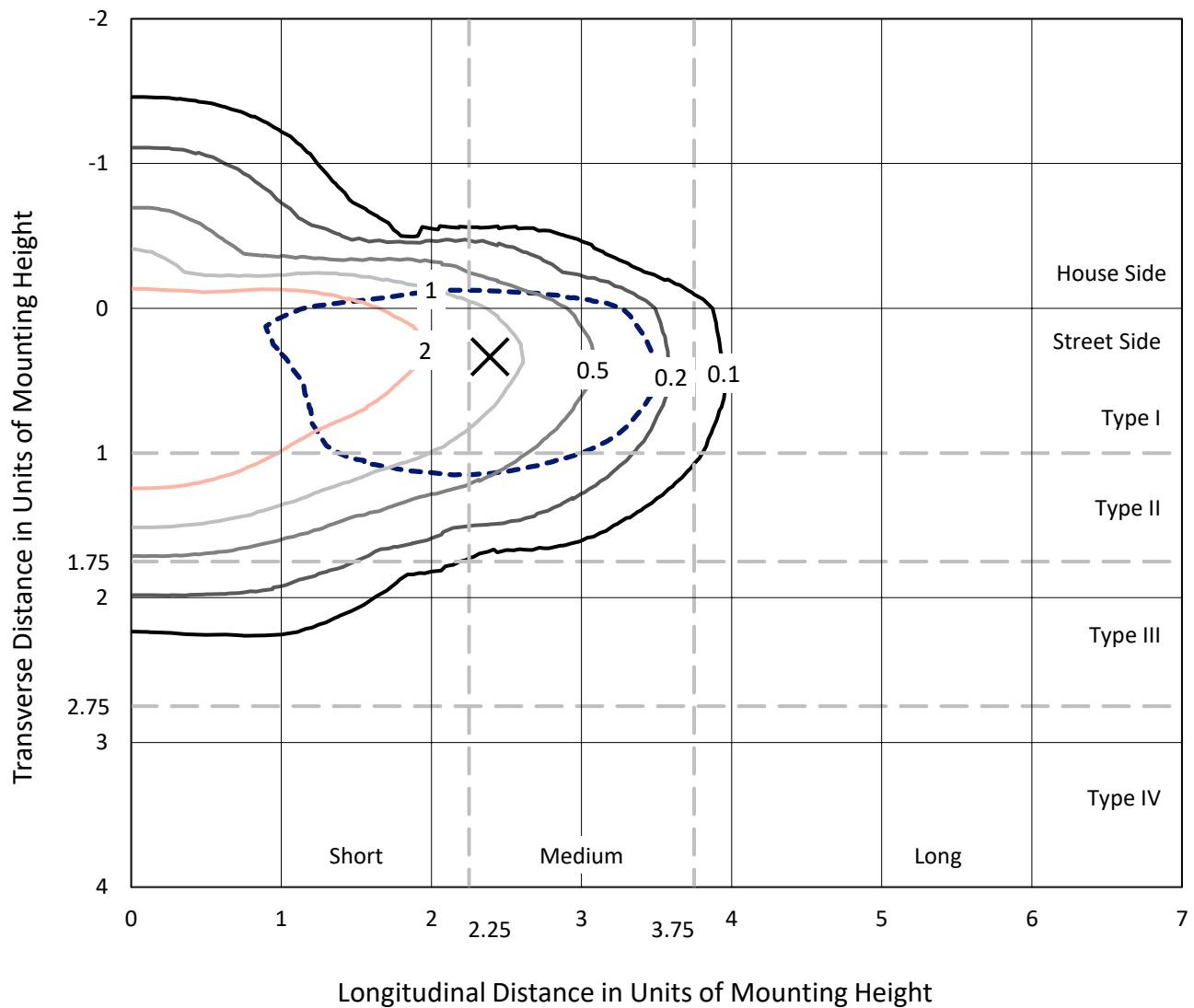


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

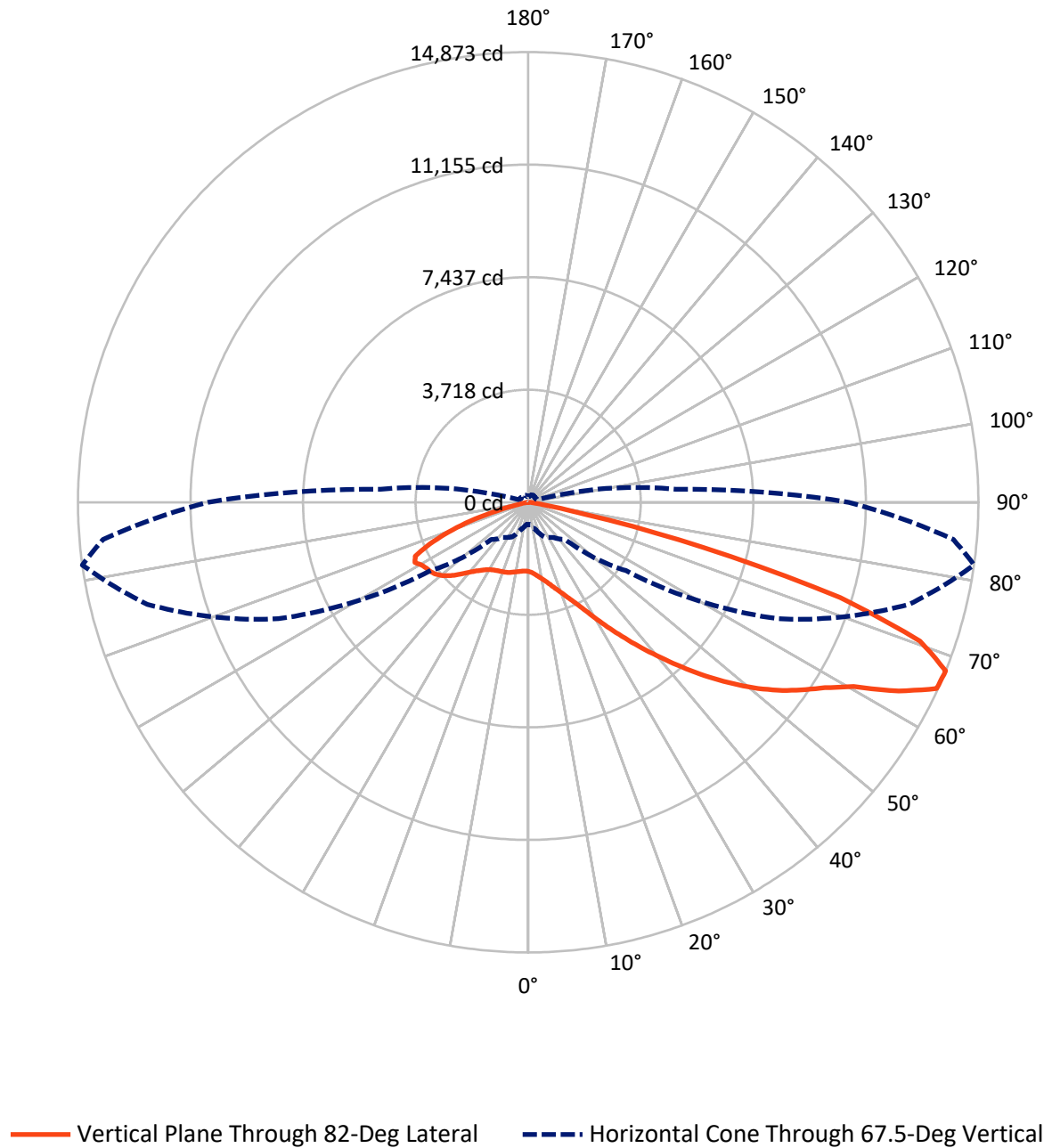


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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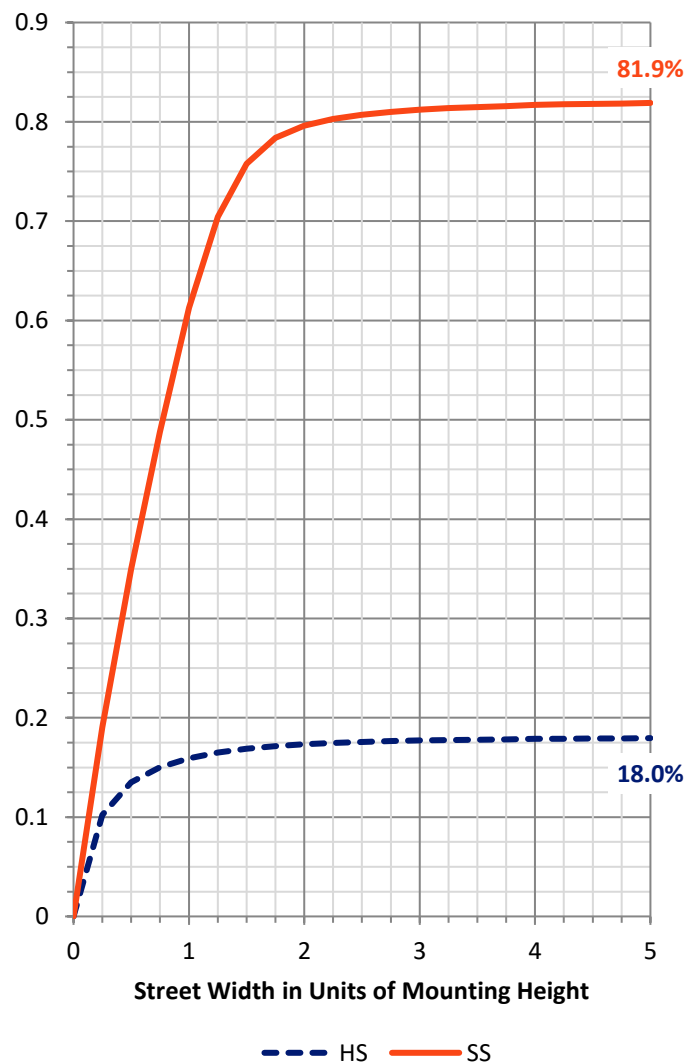
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2496.7	0.0	2496.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11286.3	0.0	11286.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	13783.0	0.0	13783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.4	1.5
10°-20°	528.6	3.8
20°-30°	846.7	6.1
30°-40°	1497.2	10.9
40°-50°	2623.3	19.0
50°-60°	3498.8	25.4
60°-70°	3257.2	23.6
70°-80°	1250.1	9.1
80°-90°	77.6	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°	13783.0	100.0
0°-180°	13783.0	100.0

Coefficient of Utilization



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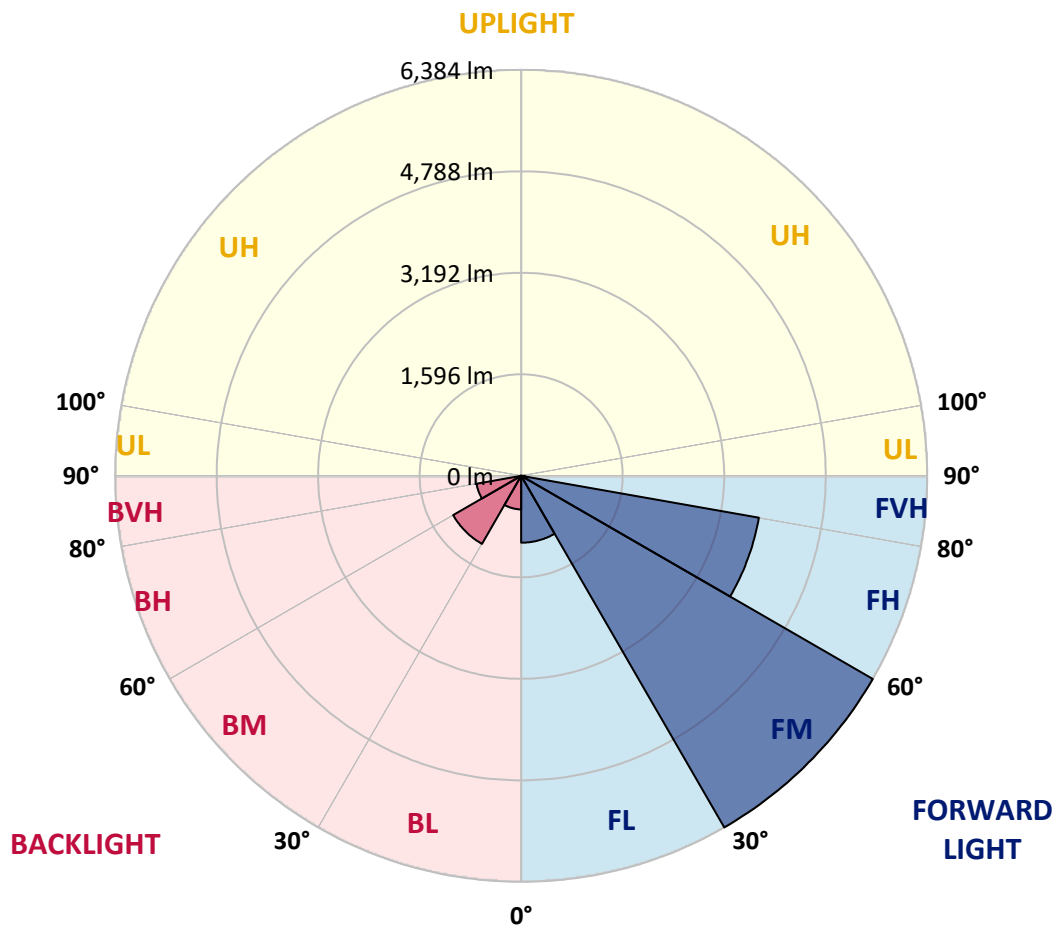
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1051.5	7.6			
FM	(30°-60°)	6383.7	46.3			
FH	(60°-80°)	3794.7	27.5			G2/5000
FVH	(80°-90°)	56.4	0.4			G1/100
BL	(0°-30°)	527.3	3.8	B2/1000		
BM	(30°-60°)	1235.6	9.0	B2/2500		
BH	(60°-80°)	712.6	5.2	B2/1000		G2/1000
BVH	(80°-90°)	21.2	0.2			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4
2.5°	2413.4	2427.3	2419.3	2415.4	2408.4	2398.5	2390.5	2365.7	2339.9	2323.1	2317.1
5°	2462.0	2475.9	2474.9	2478.9	2483.8	2486.8	2484.8	2457.0	2420.3	2391.5	2374.7
7.5°	2420.3	2436.2	2449.1	2468.9	2503.7	2540.4	2558.3	2552.3	2514.6	2474.9	2454.1
10°	2302.2	2319.1	2349.9	2396.5	2469.9	2549.3	2615.8	2646.6	2622.8	2579.1	2550.3
12.5°	2085.9	2102.8	2163.3	2264.5	2387.6	2525.5	2652.5	2734.9	2740.8	2697.2	2663.4
15°	1842.8	1859.6	1924.1	2051.2	2238.7	2460.0	2672.4	2828.2	2880.8	2843.1	2802.4
17.5°	1691.9	1706.8	1755.5	1857.7	2053.2	2329.0	2665.4	2927.4	3047.5	3017.7	2969.1
20°	1646.3	1659.2	1682.0	1753.5	1916.2	2193.1	2619.8	3020.7	3227.1	3210.2	3155.6
22.5°	1694.9	1706.8	1713.8	1745.5	1847.7	2103.8	2562.2	3116.0	3435.5	3437.5	3371.0
25°	1807.1	1819.0	1811.0	1830.9	1875.5	2076.0	2540.4	3228.1	3697.5	3719.3	3643.9
27.5°	1991.6	1992.6	1973.8	1972.8	1979.7	2117.7	2563.2	3348.2	4027.9	4068.6	3975.3
30°	2361.8	2346.9	2274.4	2196.1	2160.3	2242.7	2626.7	3490.1	4417.9	4490.3	4373.2
32.5°	2932.4	2910.5	2777.6	2590.0	2401.5	2444.1	2740.8	3651.8	4842.6	4973.6	4830.7
35°	3551.6	3545.6	3406.7	3127.9	2798.4	2730.9	2926.4	3864.2	5306.0	5514.4	5344.7
37.5°	4127.1	4124.2	4044.8	3716.3	3315.4	3130.8	3224.1	4142.0	5802.2	6103.9	5903.4
40°	4653.1	4662.0	4582.6	4288.9	3885.0	3643.9	3629.0	4485.4	6354.0	6745.9	6507.8
42.5°	5107.6	5117.5	5037.1	4819.8	4447.7	4211.5	4126.2	4906.1	6892.8	7435.6	7153.8
45°	5416.2	5477.7	5465.8	5292.2	5025.2	4780.1	4723.5	5434.1	7507.1	8167.0	7836.5
47.5°	5503.5	5560.1	5649.4	5673.2	5510.5	5269.3	5336.8	6070.1	8128.3	8899.3	8523.2
50°	5288.2	5340.8	5526.3	5773.4	5886.6	5812.1	5933.2	6751.9	8764.4	9629.7	9197.0
52.5°	4863.5	4917.0	5151.2	5542.2	6003.7	6237.9	6531.6	7423.7	9380.6	10321.3	9835.1
55°	4249.2	4305.8	4606.4	5049.0	5780.4	6413.5	7030.7	8094.5	9945.2	10943.5	10410.6
57.5°	3413.7	3455.3	3767.9	4387.1	5218.7	6238.8	7398.9	8826.9	10477.1	11554.8	10981.2
60°	2224.8	2261.5	2624.7	3315.4	4287.9	5655.4	7472.3	9643.6	11183.7	12349.7	11750.3
62.5°	1479.6	1504.4	1719.7	2226.8	3019.7	4535.0	7042.6	10295.5	12219.7	13733.0	13069.1
65°	1015.2	1040.0	1255.3	1608.6	1950.9	2999.8	5807.2	10209.2	13158.4	14831.5	14046.6
67.5°	724.4	745.2	927.8	1261.3	1412.1	1742.6	3936.6	9105.7	13023.5	14873.2	14099.2
70°	519.0	530.9	681.7	982.4	1122.3	1046.9	2189.1	6964.2	11403.0	13734.0	13025.5
72.5°	363.2	367.2	473.3	748.2	904.0	764.1	1042.0	4643.2	8624.4	10779.8	10098.1
75°	246.1	251.1	318.5	548.8	725.4	583.5	551.7	2489.8	5062.9	5966.9	5348.7
77.5°	150.8	152.8	205.4	375.1	542.8	444.6	355.3	1054.9	1958.9	1923.2	1639.3
80°	85.3	85.3	131.0	233.2	370.1	286.8	249.1	448.5	620.2	544.8	480.3
82.5°	47.6	48.6	95.3	144.9	245.1	169.7	136.9	207.4	267.9	237.2	206.4
85°	19.8	21.8	58.5	68.5	117.1	84.3	55.6	87.3	99.2	88.3	64.5
87.5°	2.0	3.0	17.9	12.9	13.9	16.9	7.9	16.9	13.9	13.9	9.9
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°	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4	2283.4
2.5°	2298.3	2283.4	2245.7	2202.0	2144.4	2116.7	2079.0	2053.2	2031.3	2033.3	2013.5
5°	2342.9	2305.2	2220.9	2115.7	1984.7	1891.4	1792.2	1723.7	1668.1	1656.2	1629.4
7.5°	2404.4	2344.9	2197.0	2007.5	1786.2	1618.5	1468.7	1372.4	1303.9	1282.1	1260.3
10°	2483.8	2397.5	2166.3	1871.6	1553.0	1339.7	1178.9	1103.5	1056.8	1041.0	1029.1
12.5°	2576.1	2458.0	2125.6	1705.8	1312.9	1107.5	1005.2	967.5	952.6	947.7	944.7
15°	2692.2	2533.4	2064.1	1509.4	1109.4	965.5	921.9	916.9	918.9	916.9	915.9
17.5°	2830.2	2615.8	1963.8	1306.9	972.5	893.1	877.2	881.2	886.2	885.2	883.2
20°	2981.0	2697.2	1835.8	1127.3	879.2	841.5	832.6	836.5	840.5	838.5	837.5
22.5°	3152.7	2784.5	1693.9	987.4	816.7	793.9	783.9	784.9	784.9	781.0	779.0
25°	3358.1	2880.8	1545.1	888.1	769.1	751.2	739.3	735.3	729.4	717.5	715.5
27.5°	3603.2	2983.0	1402.2	818.7	731.4	714.5	700.6	690.7	675.8	655.9	654.0
30°	3879.1	3107.0	1281.1	775.0	701.6	684.7	668.8	654.0	632.1	607.3	605.3
32.5°	4203.6	3240.0	1192.8	746.2	674.8	656.9	638.1	620.2	596.4	571.6	572.6
35°	4590.6	3400.8	1141.2	726.4	654.0	630.1	609.3	589.5	571.6	549.8	547.8
37.5°	5010.3	3571.4	1125.3	716.5	640.1	603.3	579.5	565.6	563.6	550.7	549.8
40°	5469.8	3773.9	1137.2	710.5	625.2	577.5	551.7	548.8	553.7	530.9	531.9
42.5°	5956.0	4014.0	1157.1	703.6	604.3	551.7	526.9	526.9	523.0	491.2	491.2
45°	6482.0	4290.9	1176.9	686.7	579.5	525.9	507.1	500.1	483.3	452.5	451.5
47.5°	7011.9	4572.7	1191.8	655.9	549.8	504.1	487.2	471.4	446.6	418.8	417.8
50°	7515.0	4825.8	1175.9	610.3	516.0	483.3	465.4	443.6	416.8	397.9	395.0
52.5°	7964.5	5045.1	1108.4	556.7	480.3	461.4	445.6	422.7	400.9	381.1	379.1
55°	8355.5	5222.7	989.4	506.1	448.5	442.6	426.7	397.9	368.2	351.3	349.3
57.5°	8730.6	5357.6	840.5	464.4	419.8	421.7	397.9	372.1	344.3	326.5	324.5
60°	9229.8	5538.3	689.7	425.7	389.0	395.0	369.2	350.3	315.6	292.7	289.8
62.5°	10027.6	5819.1	547.8	378.1	353.3	355.3	344.3	321.5	279.8	253.0	251.1
65°	10660.7	5715.9	431.7	326.5	312.6	315.6	315.6	290.8	246.1	215.3	212.4
67.5°	10589.3	4894.2	344.3	275.9	273.9	275.9	282.8	262.0	218.3	193.5	189.5
70°	9754.7	3893.0	275.9	229.2	238.2	233.2	253.0	239.2	196.5	171.7	168.7
72.5°	7959.6	2804.4	210.4	189.5	182.6	190.5	228.2	215.3	163.7	136.0	133.0
75°	4651.1	1496.5	156.8	149.8	132.0	158.8	202.4	183.6	125.0	100.2	97.2
77.5°	1514.3	522.0	115.1	110.1	98.2	128.0	172.7	154.8	102.2	79.4	76.4
80°	405.9	157.8	78.4	72.4	63.5	95.3	136.9	123.1	73.4	51.6	50.6
82.5°	162.7	66.5	45.6	40.7	34.7	65.5	108.2	99.2	54.6	32.7	32.7
85°	52.6	21.8	16.9	12.9	15.9	40.7	64.5	67.5	38.7	16.9	12.9
87.5°	6.9	3.0	3.0	4.0	3.0	6.9	19.8	18.9	10.9	2.0	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)