

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: P949154

Luminaire Tested: **GALN-SB4A-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12845 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - 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

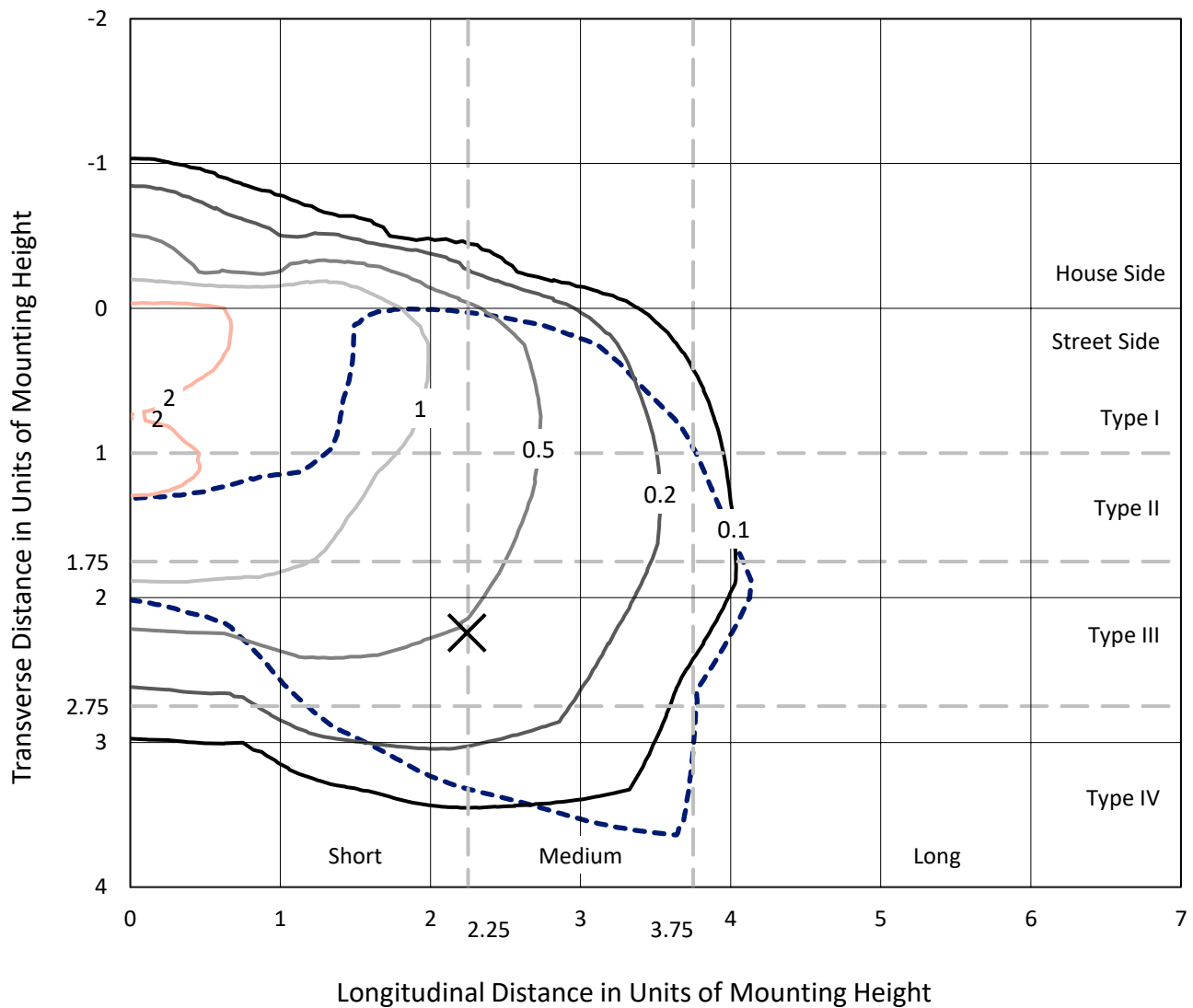


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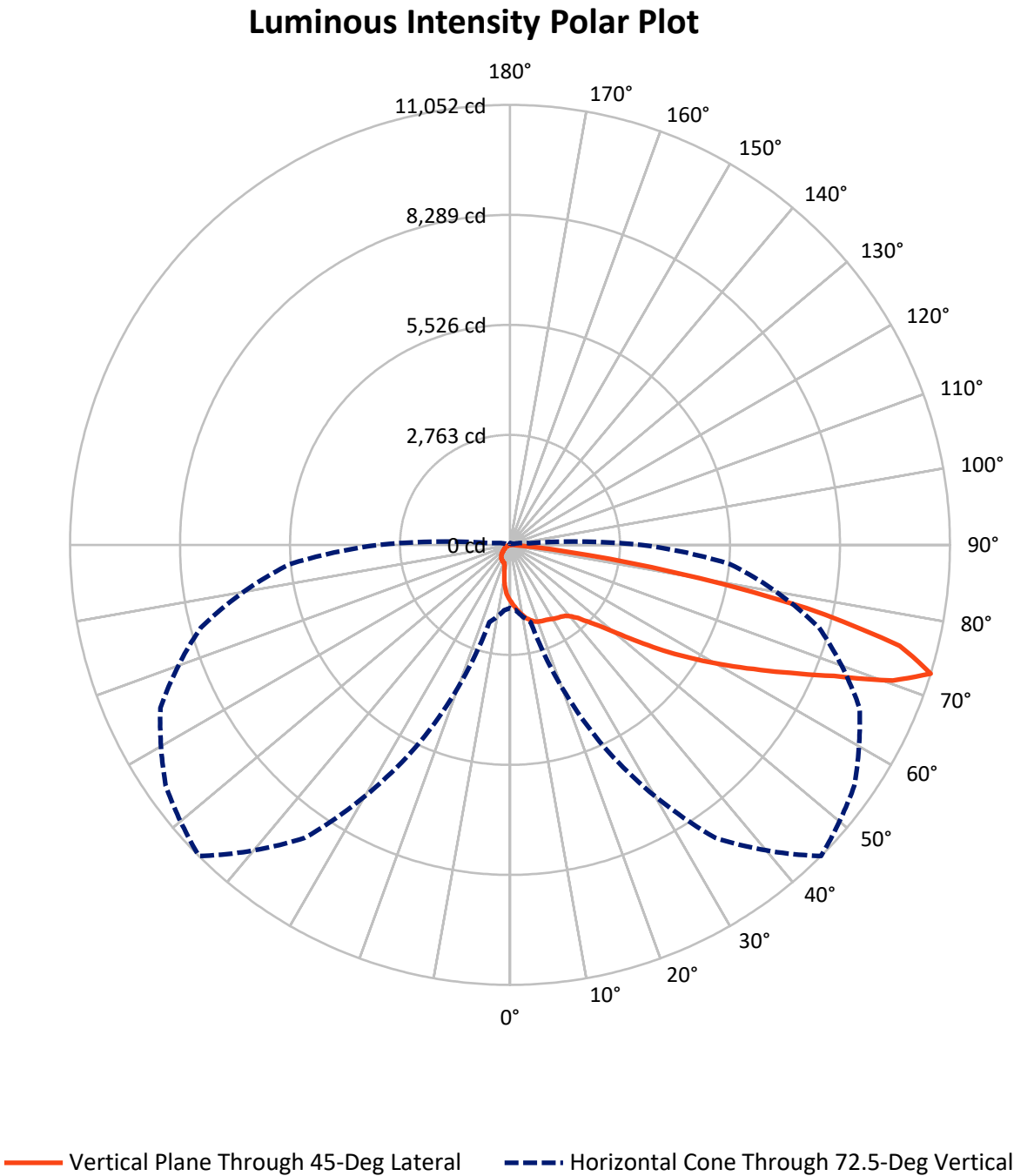
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type IV - Short - N/A

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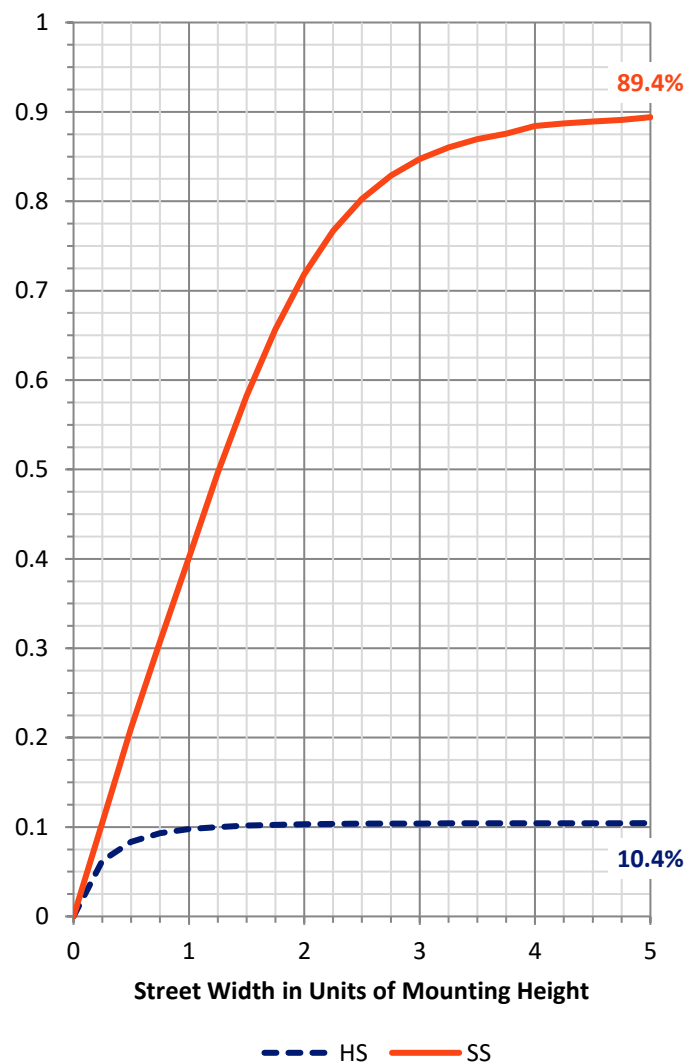
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1349.6	0.0	1349.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11495.3	0.0	11495.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	12845.0	0.0	12845.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.6	1.0
10°-20°	387.5	3.0
20°-30°	636.3	5.0
30°-40°	902.5	7.0
40°-50°	1491.7	11.6
50°-60°	2679.6	20.9
60°-70°	3720.8	29.0
70°-80°	2698.9	21.0
80°-90°	195.1	1.5
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°	12845.0	100.0
0°-180°	12845.0	100.0

Coefficient of Utilization



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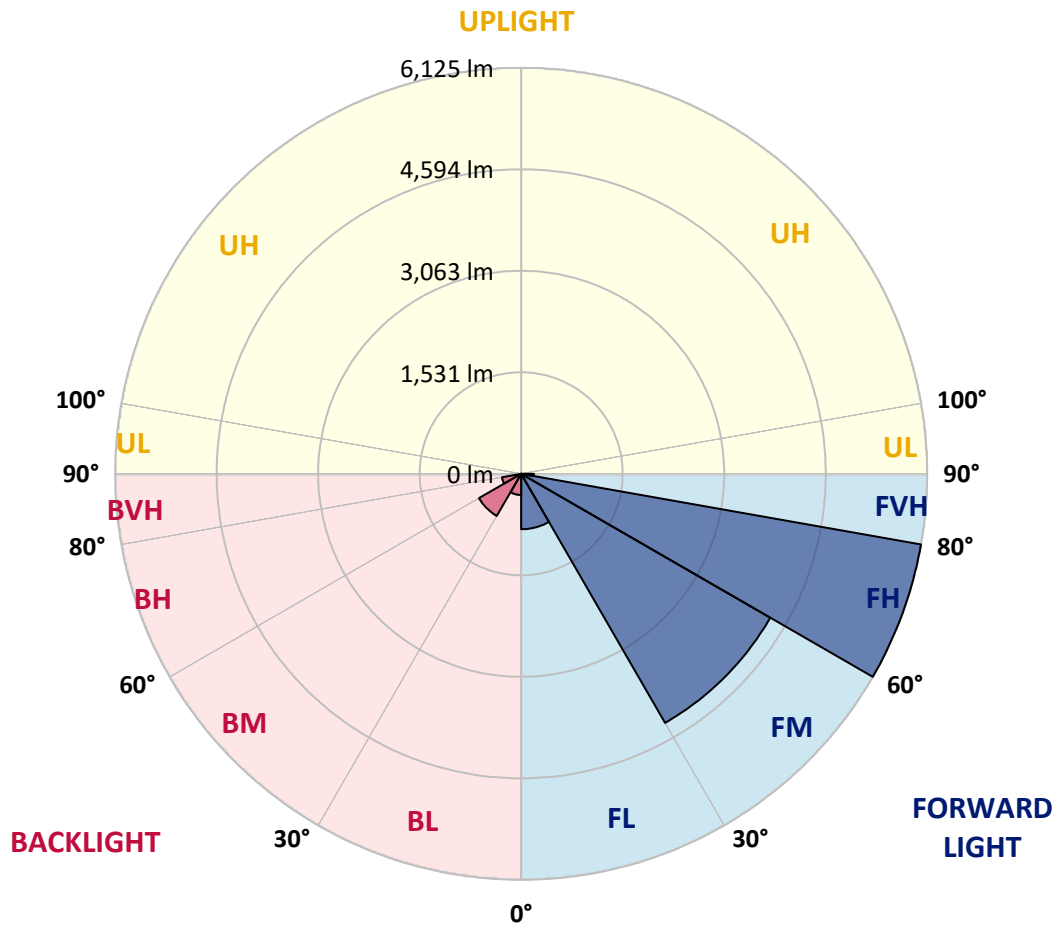
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	836.7	6.5			
FM	(30°-60°)	4339.7	33.8			
FH	(60°-80°)	6125.4	47.7			G3/7500
FVH	(80°-90°)	193.5	1.5			G2/225
BL	(0°-30°)	319.7	2.5	B1/500		
BM	(30°-60°)	734.0	5.7	B1/1000		
BH	(60°-80°)	294.3	2.3	B1/500		G1/500
BVH	(80°-90°)	1.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	1537.0	1539.6	1537.8	1527.3	1509.8	1500.1	1494.9	1477.3	1465.9	1445.8	1424.7
5°	1678.1	1688.6	1682.5	1661.5	1628.1	1604.5	1597.5	1561.5	1529.1	1491.4	1447.5
7.5°	1828.0	1833.3	1821.9	1794.7	1750.0	1709.7	1703.5	1653.6	1601.8	1544.0	1484.4
10°	1957.8	1963.9	1946.4	1906.9	1856.1	1806.1	1797.4	1742.1	1680.7	1609.7	1533.5
12.5°	2066.5	2072.7	2049.9	2002.5	1946.4	1894.7	1885.9	1828.0	1760.5	1681.6	1586.9
15°	2148.9	2160.3	2129.6	2078.8	2018.3	1966.6	1962.2	1905.2	1839.4	1751.8	1650.9
17.5°	2197.2	2208.6	2179.6	2118.2	2066.5	2022.7	2017.4	1970.1	1908.7	1824.5	1713.2
20°	2205.0	2215.6	2184.9	2131.4	2088.4	2053.4	2050.7	2016.5	1971.8	1891.2	1780.7
22.5°	2181.4	2194.5	2166.5	2123.5	2093.7	2075.3	2071.8	2052.5	2027.1	1958.7	1843.8
25°	2156.8	2167.3	2146.3	2108.6	2092.8	2091.1	2093.7	2090.2	2084.9	2027.1	1917.5
27.5°	2155.1	2166.5	2142.8	2106.9	2098.1	2116.5	2119.1	2135.8	2140.2	2089.3	1988.5
30°	2170.0	2177.9	2155.1	2117.4	2113.0	2155.1	2155.9	2185.8	2192.8	2141.9	2058.6
32.5°	2202.4	2211.2	2188.4	2133.2	2127.0	2185.8	2188.4	2227.8	2239.2	2198.0	2132.3
35°	2278.7	2289.2	2262.9	2177.0	2155.1	2214.7	2222.6	2269.1	2291.8	2257.7	2208.6
37.5°	2469.0	2438.3	2402.3	2265.5	2219.1	2260.3	2273.4	2327.8	2368.1	2328.7	2299.7
40°	2941.5	2845.1	2732.9	2416.3	2331.3	2357.6	2368.1	2422.5	2477.7	2439.1	2425.1
42.5°	3650.8	3536.8	3356.2	2763.5	2500.5	2513.7	2521.6	2568.9	2646.9	2616.2	2619.8
45°	4283.0	4241.8	4057.6	3356.2	2817.0	2752.1	2761.8	2786.3	2901.2	2889.8	2912.6
47.5°	4768.7	4745.0	4603.0	4036.6	3351.8	3044.1	3071.3	3082.7	3248.4	3288.7	3350.1
50°	5142.2	5133.4	5006.3	4641.6	4050.6	3474.6	3484.2	3459.7	3707.8	3807.8	3924.4
52.5°	5494.6	5524.5	5430.6	5203.6	4796.7	4038.3	4036.6	3920.9	4255.8	4406.6	4605.6
55°	5812.9	5823.4	5833.1	5777.0	5547.2	4680.1	4663.5	4474.1	4891.4	5047.5	5263.2
57.5°	6111.9	6116.3	6202.2	6317.0	6328.4	5369.3	5338.6	5111.5	5585.8	5697.2	5829.6
60°	6312.7	6332.8	6514.3	6833.5	6972.9	6080.3	6063.7	5832.2	6292.5	6344.2	6319.7
62.5°	6023.3	6146.1	6603.7	7236.8	7581.3	6868.5	6860.6	6643.2	7036.0	6993.9	6783.5
65°	4875.7	5083.4	5888.3	7509.4	8178.4	7748.8	7760.2	7528.7	7799.6	7662.9	7160.5
67.5°	3410.6	3629.8	4581.9	7531.4	8845.6	8782.5	8848.2	8485.3	8610.6	8303.8	7249.9
70°	2358.5	2471.6	3091.4	7059.7	9365.5	10206.3	10204.6	9660.1	9417.3	8595.7	6794.0
72.5°	1586.1	1644.8	2007.8	5600.7	8983.3	11052.4	11001.6	10557.9	9689.1	8039.0	5550.8
75°	669.0	711.9	929.4	3147.6	7107.0	10111.7	9974.0	9330.5	8608.9	6330.2	3463.2
77.5°	212.2	230.6	366.5	1126.6	3914.7	7600.6	7455.1	5826.9	5769.9	3175.6	1266.0
80°	100.8	117.5	206.0	452.4	1540.5	4133.9	4113.7	2643.4	2482.1	857.5	254.3
82.5°	43.8	51.7	114.0	242.0	689.1	1474.7	1504.5	899.6	744.4	325.3	78.0
85°	14.0	18.4	52.6	111.3	291.1	366.5	362.1	213.9	299.9	177.1	27.2
87.5°	0.0	0.0	17.5	25.4	29.8	21.0	23.7	18.4	83.3	49.1	9.6
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°	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2	1407.2
2.5°	1414.2	1400.2	1375.6	1352.8	1332.7	1312.5	1300.2	1282.7	1280.9	1280.9	1285.3
5°	1423.9	1401.1	1357.2	1310.8	1257.3	1206.4	1155.6	1106.5	1090.7	1079.3	1084.6
7.5°	1451.9	1416.0	1346.7	1258.1	1156.4	1045.1	967.1	882.9	850.5	832.9	835.6
10°	1492.2	1443.1	1337.9	1182.7	1017.9	866.2	754.9	663.7	628.6	613.7	613.7
12.5°	1537.0	1476.5	1322.2	1088.9	866.2	684.7	576.0	533.9	528.7	528.7	528.7
15°	1590.4	1516.8	1295.0	978.5	707.5	541.8	503.3	505.0	510.3	513.8	513.8
17.5°	1645.7	1559.8	1252.0	854.8	567.3	487.5	488.4	491.0	495.4	498.9	498.9
20°	1705.3	1602.7	1195.0	723.3	486.6	471.7	474.3	477.0	480.5	482.2	483.1
22.5°	1769.3	1643.0	1127.5	594.4	459.4	458.5	459.4	462.1	466.4	466.4	468.2
25°	1837.7	1687.8	1050.4	500.6	445.4	445.4	447.1	448.9	452.4	452.4	453.3
27.5°	1907.8	1729.0	968.8	451.5	433.1	432.2	432.2	434.9	436.6	437.5	438.4
30°	1985.0	1777.2	887.3	441.0	423.5	419.1	416.5	418.2	420.0	420.8	422.6
32.5°	2063.9	1823.7	814.5	445.4	413.8	405.9	397.2	395.4	395.4	398.9	401.6
35°	2151.6	1874.5	758.4	460.3	408.6	386.7	372.6	364.7	365.6	370.9	373.5
37.5°	2256.8	1935.9	717.2	473.4	405.1	364.7	341.9	332.3	326.2	332.3	330.5
40°	2394.4	2026.2	687.4	484.0	400.7	339.3	308.6	292.8	281.4	284.9	283.2
42.5°	2597.0	2168.2	676.0	484.8	391.0	309.5	274.4	253.4	236.7	237.6	234.1
45°	2881.0	2392.7	734.7	473.4	370.0	277.1	238.5	210.4	199.9	197.3	193.8
47.5°	3270.3	2719.7	870.6	449.8	339.3	245.5	203.4	179.7	171.8	167.5	164.8
50°	3792.0	3139.7	1021.4	423.5	308.6	215.7	174.5	159.6	154.3	149.9	149.0
52.5°	4396.9	3565.8	1145.0	397.2	277.9	189.4	156.1	147.3	142.9	139.4	138.5
55°	4951.9	3859.5	1138.0	369.1	248.1	168.3	142.9	137.7	132.4	128.9	127.1
57.5°	5297.4	3900.7	938.1	338.4	213.9	151.7	130.6	127.1	121.0	116.6	115.7
60°	5456.1	3665.7	657.6	298.1	179.7	135.9	117.5	115.7	107.8	101.7	100.0
62.5°	5485.0	3229.1	438.4	248.1	149.9	121.0	104.3	101.7	91.2	80.7	75.4
65°	5367.5	2604.8	303.4	193.8	128.0	105.2	89.4	84.2	72.8	62.2	58.7
67.5°	4995.8	1828.9	211.3	139.4	108.7	83.3	71.0	69.3	60.5	51.7	49.1
70°	4314.5	1042.5	141.2	104.3	85.9	57.0	56.1	57.9	49.1	42.1	38.6
72.5°	3308.0	477.0	87.7	76.3	58.7	38.6	44.7	45.6	37.7	31.6	28.1
75°	1947.3	204.3	55.2	49.1	29.8	25.4	32.4	33.3	25.4	20.2	17.5
77.5°	662.8	77.2	35.1	28.9	14.9	14.0	21.0	21.0	14.0	7.9	6.1
80°	150.8	28.9	17.5	11.4	7.0	6.1	7.0	6.1	3.5	0.9	0.0
82.5°	43.0	11.4	7.0	4.4	2.6	2.6	0.9	0.0	0.0	0.0	0.0
85°	12.3	5.3	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)