

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: P941438

Luminaire Tested: **GALN-SB5A-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14173 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

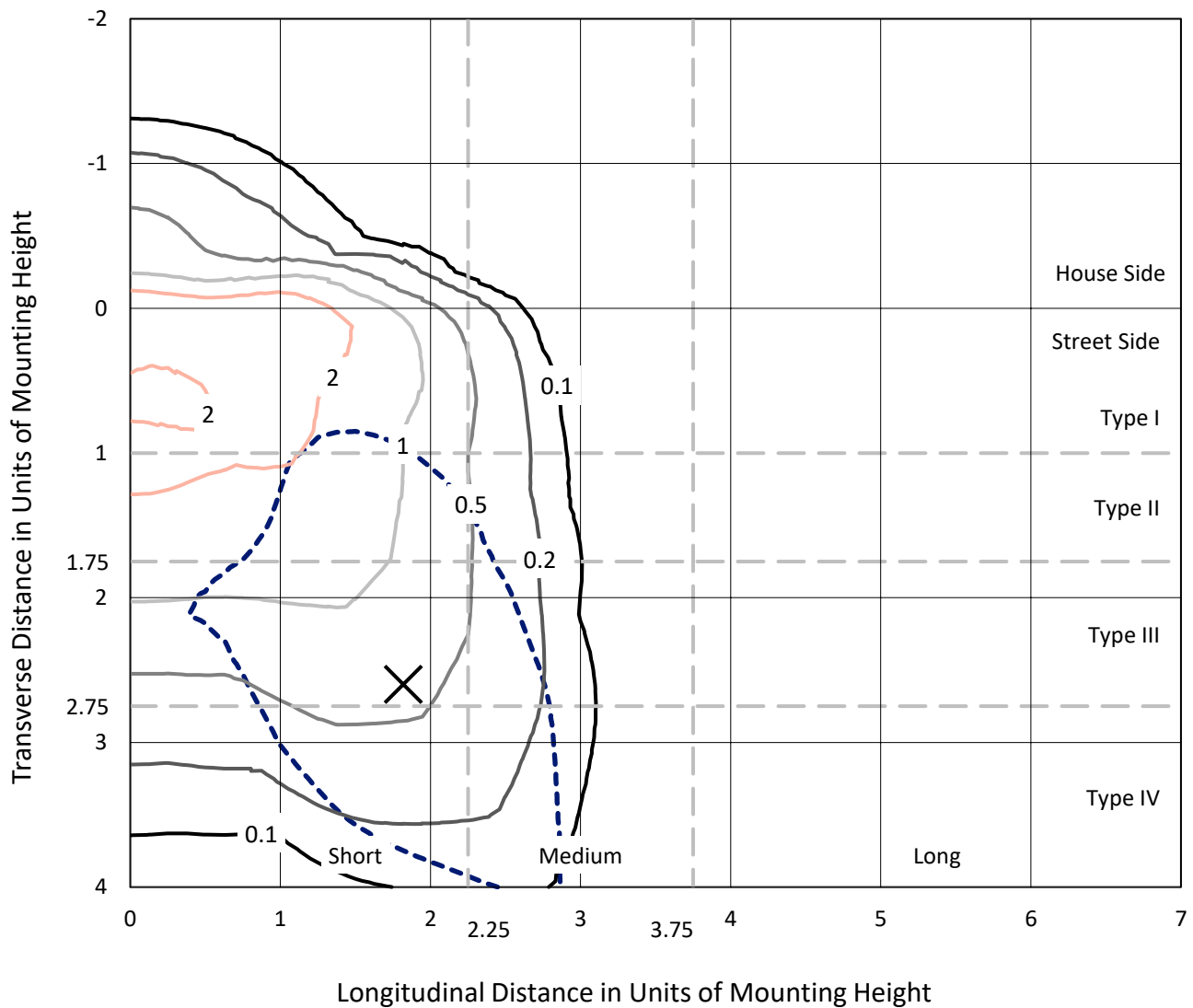
Input Watts (W): 141.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

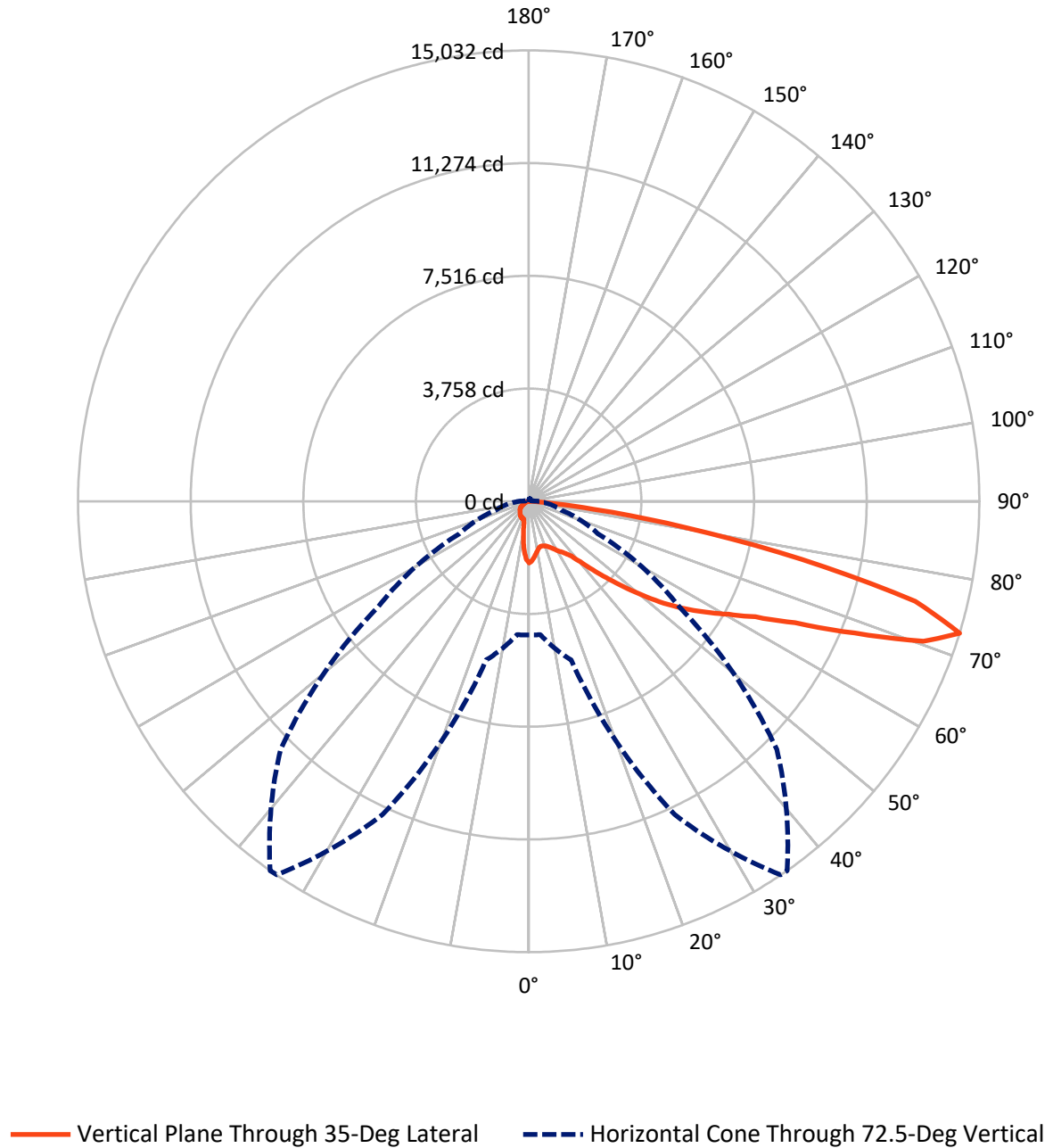
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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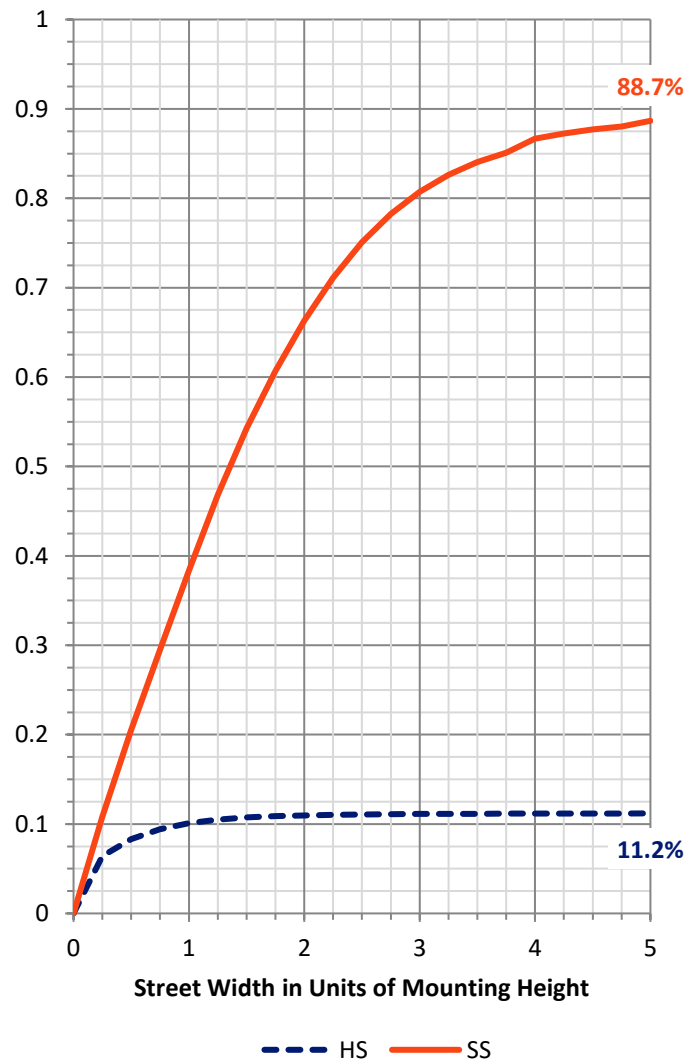
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.1	0.0	1595.1
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	12577.9	0.0	12577.9
	% Fixture	88.7	0.0	88.7
Total	Lumens	14173.0	0.0	14173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	1.2
10°-20°	394.9	2.8
20°-30°	641.5	4.5
30°-40°	1070.3	7.6
40°-50°	2025.0	14.3
50°-60°	3217.7	22.7
60°-70°	3980.5	28.1
70°-80°	2474.3	17.5
80°-90°	200.0	1.4
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°	14173.0	100.0
0°-180°	14173.0	100.0

Coefficient of Utilization



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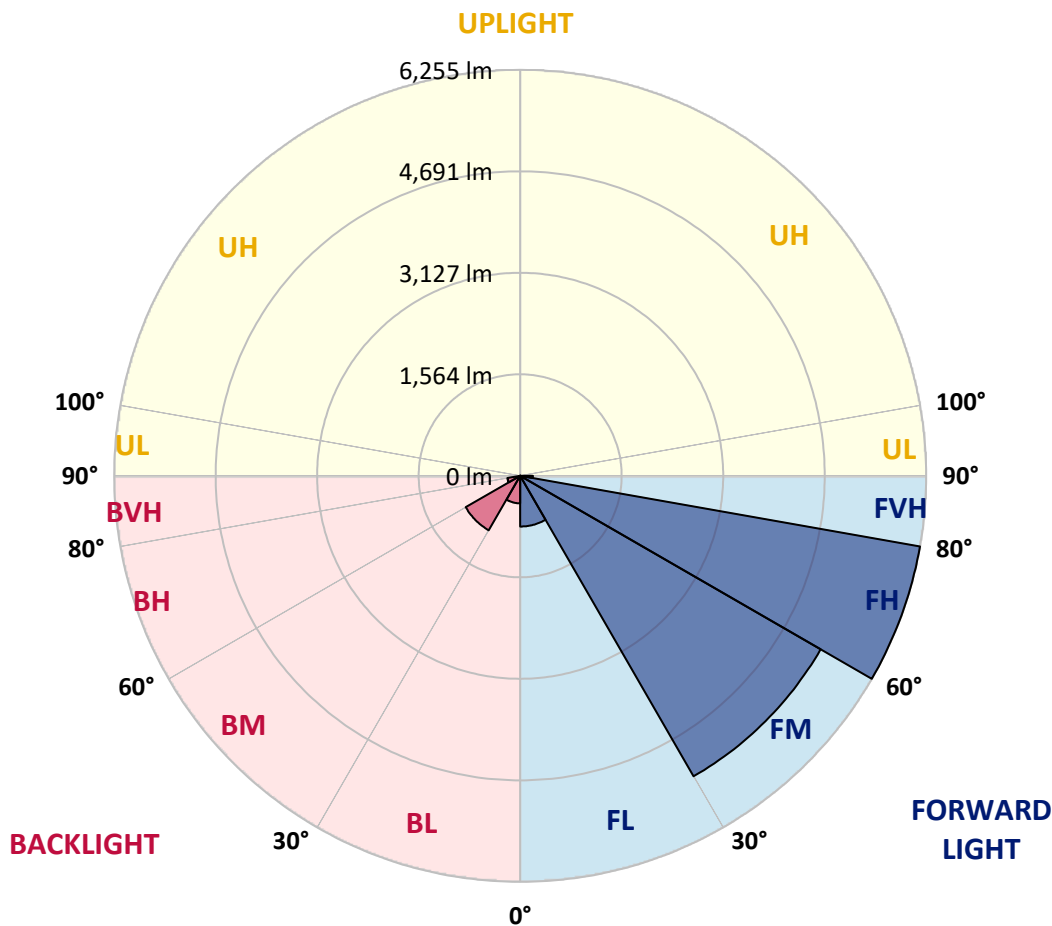
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	781.3	5.5			
FM	(30°-60°)	5344.6	37.7			
FH	(60°-80°)	6254.7	44.1			G3/7500
FVH	(80°-90°)	197.2	1.4			G2/225
BL	(0°-30°)	423.9	3.0	B1/500		
BM	(30°-60°)	968.4	6.8	B1/1000		
BH	(60°-80°)	200.2	1.4	B1/500		G1/500
BVH	(80°-90°)	2.7	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°	34°	35°	45°	55°	65°	75°	85°
0°	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1
2.5°	1962.8	1979.4	1982.5	1987.7	1987.7	1993.9	2004.3	2018.8	2042.7	2055.2	2063.5
5°	1809.1	1821.5	1837.1	1849.6	1873.4	1876.6	1917.1	1956.5	2011.6	2053.1	2082.2
7.5°	1654.3	1668.9	1689.6	1719.7	1750.9	1760.2	1821.5	1888.0	1975.2	2053.1	2101.9
10°	1545.3	1546.3	1565.0	1595.1	1645.0	1656.4	1731.2	1825.7	1934.7	2040.6	2120.6
12.5°	1484.0	1491.3	1499.6	1522.4	1570.2	1577.5	1657.4	1768.6	1894.2	2033.4	2142.4
15°	1484.0	1489.2	1494.4	1505.8	1544.2	1550.5	1621.1	1732.2	1873.4	2036.5	2177.7
17.5°	1499.6	1507.9	1503.7	1517.2	1557.7	1561.9	1624.2	1721.8	1872.4	2056.2	2231.7
20°	1537.0	1543.2	1534.9	1543.2	1583.7	1592.0	1656.4	1741.6	1890.1	2090.5	2299.2
22.5°	1596.2	1599.3	1579.6	1585.8	1627.3	1637.7	1712.5	1797.6	1932.6	2145.5	2389.6
25°	1670.9	1677.2	1647.1	1654.3	1693.8	1706.2	1792.4	1881.8	2000.1	2221.3	2504.8
27.5°	1757.1	1760.2	1734.3	1733.2	1784.1	1801.8	1889.0	1985.6	2090.5	2316.9	2650.2
30°	1855.8	1865.1	1840.2	1836.1	1900.4	1915.0	2001.2	2113.3	2223.4	2460.2	2856.9
32.5°	1933.7	1940.9	1926.4	1936.8	2002.2	2013.6	2137.2	2294.0	2432.2	2663.7	3138.3
35°	2045.8	2050.0	2016.8	2035.4	2110.2	2139.3	2323.1	2547.4	2694.9	2919.2	3506.0
37.5°	2451.9	2451.9	2310.7	2218.2	2289.9	2315.8	2577.5	2866.2	3018.9	3261.9	3969.1
40°	3013.7	3004.4	2797.7	2608.7	2599.4	2650.2	2940.0	3268.1	3437.4	3673.2	4490.5
42.5°	3612.9	3598.4	3317.0	3130.0	3098.9	3116.5	3358.5	3763.5	3935.9	4174.7	5051.2
45°	4144.6	4140.5	3882.9	3631.6	3575.5	3631.6	3880.9	4343.0	4466.6	4717.9	5611.0
47.5°	4590.1	4590.1	4402.2	4238.1	4209.0	4242.3	4588.1	4985.8	4974.4	5296.3	6156.2
50°	5103.2	5099.0	4920.4	4849.8	4879.9	4926.6	5402.3	5662.9	5499.9	5864.4	6643.3
52.5°	5462.5	5487.4	5426.1	5414.7	5568.4	5649.4	6228.9	6325.5	5970.3	6403.4	7007.8
55°	5747.0	5776.1	5846.7	5926.7	6222.7	6328.6	7029.6	6953.8	6363.9	6870.7	7217.5
57.5°	6150.0	6108.4	6217.5	6375.3	6854.1	6981.8	7805.3	7546.7	6680.6	7249.7	7240.4
60°	6639.1	6645.3	6664.0	6863.4	7484.4	7648.5	8569.7	8107.5	6884.2	7482.4	6987.0
62.5°	7226.9	7236.2	7274.7	7581.0	8330.8	8485.5	9383.8	8566.5	6977.6	7416.9	6332.7
65°	7186.4	7225.8	7654.7	8702.6	9617.5	9770.2	10334.1	8888.5	6836.4	6818.8	5156.1
67.5°	6546.7	6611.1	7328.7	10042.2	11557.4	11727.7	11482.6	8951.8	6226.8	5302.6	3363.7
70°	5707.6	5730.4	6593.4	11246.9	13803.7	13976.1	12510.7	8255.0	4725.2	2957.6	1506.9
72.5°	4457.2	4462.4	5474.9	11526.3	15022.9	15032.2	11703.8	6128.2	2541.2	1136.1	523.4
75°	3184.0	3152.9	3666.9	9347.5	13216.9	13322.9	8774.2	2874.6	971.0	536.9	260.7
77.5°	1707.3	1741.6	2074.9	5543.5	9130.4	9311.1	4787.5	828.7	494.3	365.6	172.4
80°	527.6	556.6	850.5	2538.1	5171.7	5280.7	1774.8	368.7	344.8	260.7	113.2
82.5°	166.2	172.4	396.7	1066.5	2146.6	2196.4	514.1	208.7	235.7	172.4	66.5
85°	47.8	48.8	176.5	397.7	530.7	541.1	144.4	81.0	135.0	107.0	34.3
87.5°	5.2	16.6	66.5	66.5	46.7	45.7	15.6	17.7	38.4	13.5	6.2
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°	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1	2054.1
2.5°	2058.3	2059.3	2045.8	2023.0	1998.1	1977.3	1951.3	1930.6	1916.0	1911.9	1919.1
5°	2072.8	2065.6	2027.1	1957.6	1874.5	1802.8	1722.9	1659.5	1618.0	1600.3	1606.6
7.5°	2094.6	2073.9	1989.8	1852.7	1693.8	1552.5	1409.2	1298.1	1227.5	1192.2	1197.4
10°	2113.3	2071.8	1927.4	1701.1	1458.0	1244.1	1051.0	917.0	842.2	806.9	807.9
12.5°	2131.0	2070.8	1846.4	1521.4	1192.2	930.5	750.8	684.4	663.6	656.3	654.3
15°	2164.2	2073.9	1744.7	1315.8	927.4	703.1	637.6	636.6	640.8	638.7	637.6
17.5°	2209.9	2077.0	1629.4	1097.7	715.5	620.0	616.9	626.2	632.4	629.3	628.3
20°	2269.1	2089.5	1506.9	881.7	614.8	599.2	606.5	614.8	620.0	614.8	613.8
22.5°	2352.2	2111.3	1372.9	708.3	582.6	586.7	593.0	602.3	607.5	600.3	599.2
25°	2454.0	2145.5	1241.0	615.8	567.0	572.2	581.6	591.9	598.2	590.9	589.9
27.5°	2585.9	2200.6	1119.5	595.1	551.4	554.6	568.1	583.6	591.9	582.6	582.6
30°	2776.9	2290.9	1014.6	604.4	542.1	534.8	553.5	575.3	584.7	576.4	575.3
32.5°	3030.3	2418.7	950.2	618.9	537.9	512.0	529.6	557.7	573.2	568.1	568.1
35°	3362.6	2612.9	925.3	635.6	534.8	488.1	500.6	530.7	557.7	562.9	562.9
37.5°	3765.6	2882.9	932.6	642.8	525.5	468.4	474.6	500.6	535.9	552.5	556.6
40°	4223.6	3197.5	974.1	635.6	515.1	451.7	452.8	472.5	503.7	528.6	536.9
42.5°	4696.1	3565.2	1051.0	608.6	505.7	437.2	434.1	447.6	468.4	486.0	493.3
45°	5145.7	3943.2	1126.8	571.2	494.3	422.7	415.4	420.6	424.7	432.0	436.2
47.5°	5538.3	4209.0	1105.0	536.9	478.7	406.1	393.6	391.5	379.1	378.0	377.0
50°	5809.3	4267.2	981.4	502.6	455.9	387.4	367.6	355.2	333.4	323.0	324.0
52.5°	5895.5	4037.7	801.7	468.4	418.5	362.4	334.4	314.7	287.7	278.3	277.3
55°	5781.3	3588.0	640.8	426.8	366.6	329.2	298.0	272.1	250.3	238.9	238.9
57.5°	5501.9	3015.8	506.8	378.0	311.5	291.8	260.7	234.7	216.0	204.6	202.5
60°	5038.8	2394.8	400.9	319.9	265.9	251.3	219.1	202.5	185.9	172.4	169.3
62.5°	4335.7	1709.4	314.7	253.4	222.2	205.6	186.9	174.5	154.7	136.0	132.9
65°	3383.4	1045.8	243.0	185.9	178.6	170.3	158.9	147.5	123.6	104.9	101.8
67.5°	2134.1	495.4	173.4	140.2	141.2	137.1	131.9	122.5	104.9	88.3	86.2
70°	939.8	239.9	114.2	107.0	104.9	104.9	109.0	105.9	89.3	73.7	70.6
72.5°	319.9	128.8	85.2	81.0	75.8	74.8	91.4	88.3	71.7	57.1	54.0
75°	167.2	86.2	62.3	58.2	45.7	55.0	72.7	68.5	50.9	37.4	34.3
77.5°	109.0	61.3	42.6	37.4	26.0	36.3	54.0	47.8	30.1	18.7	16.6
80°	68.5	40.5	24.9	17.7	12.5	19.7	29.1	20.8	11.4	4.2	3.1
82.5°	36.3	20.8	9.3	6.2	5.2	6.2	7.3	5.2	2.1	0.0	0.0
85°	14.5	7.3	3.1	2.1	1.0	0.0	2.1	1.0	0.0	0.0	0.0
87.5°	5.2	1.0	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)