

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: P950188

Luminaire Tested: **GALN-SB4D-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34264 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 293.6
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



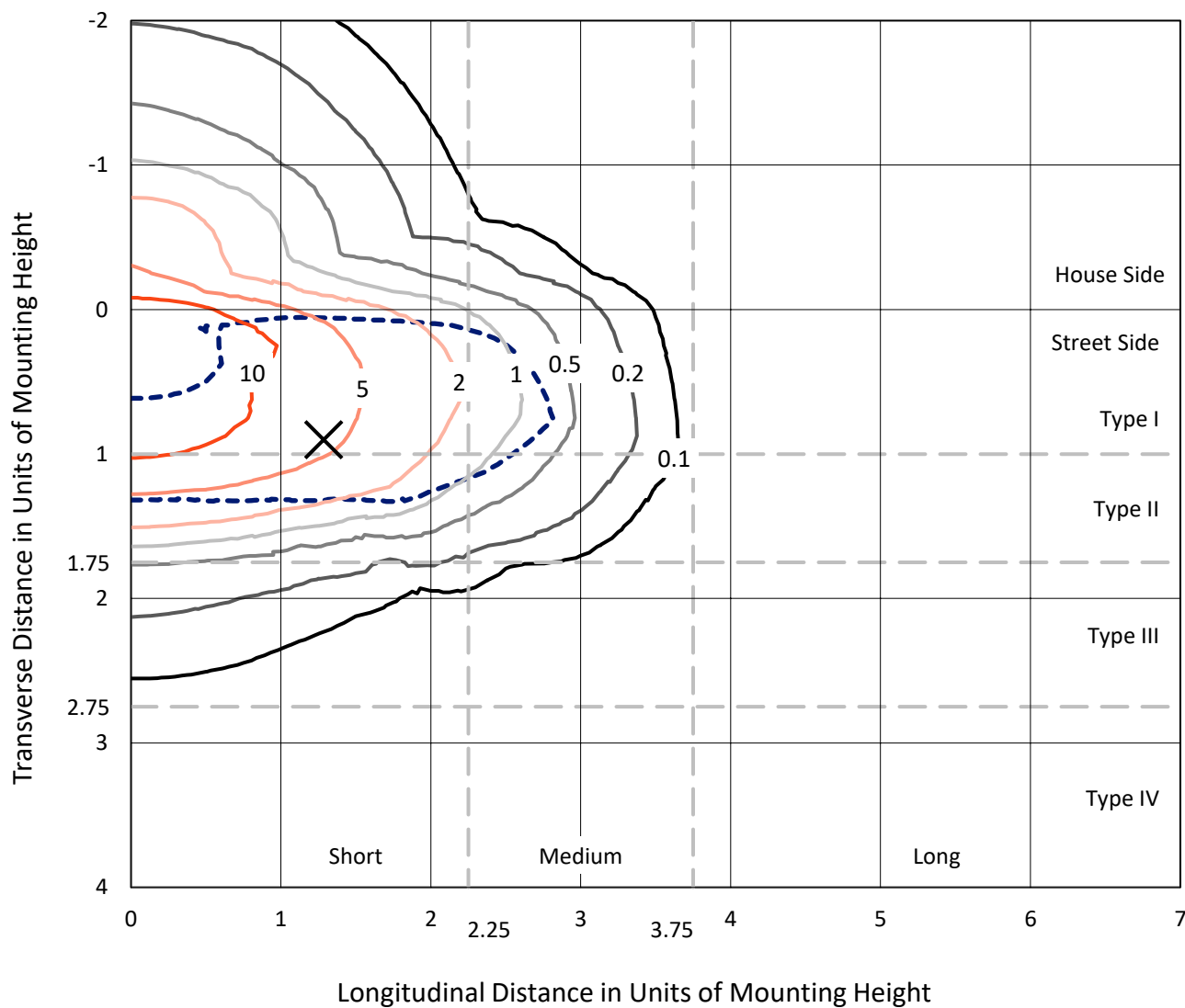
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

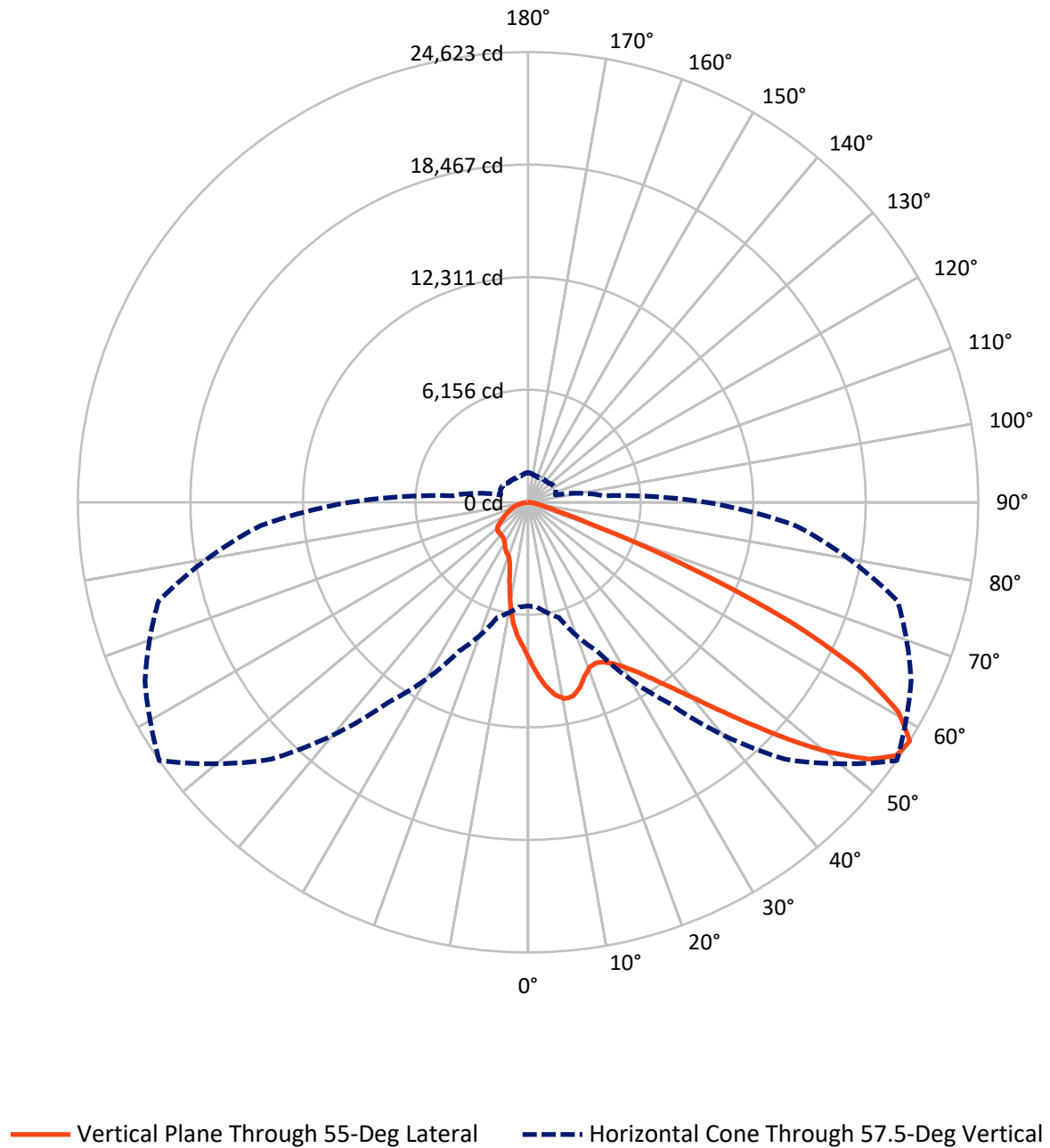
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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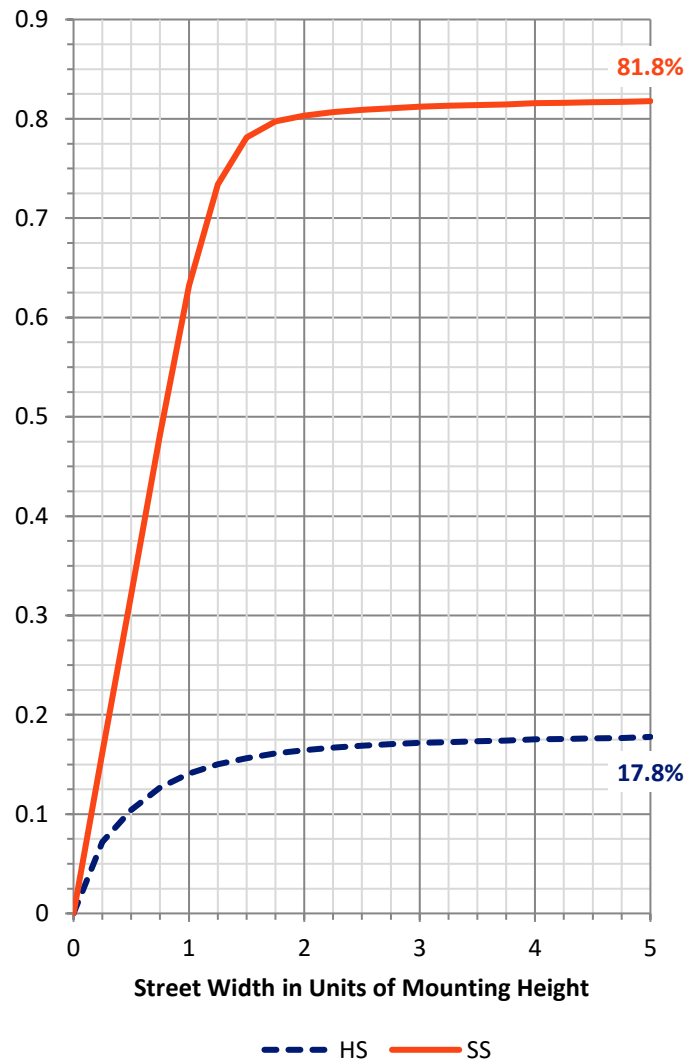
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6199.9	0.0	6199.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28064.1	0.0	28064.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	34264.0	0.0	34264.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.7	2.3
10°-20°	2010.9	5.9
20°-30°	3208.8	9.4
30°-40°	5080.2	14.8
40°-50°	7775.8	22.7
50°-60°	8328.6	24.3
60°-70°	5239.6	15.3
70°-80°	1549.4	4.5
80°-90°	274.0	0.8
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°	34264.0	100.0
0°-180°	34264.0	100.0

Coefficient of Utilization



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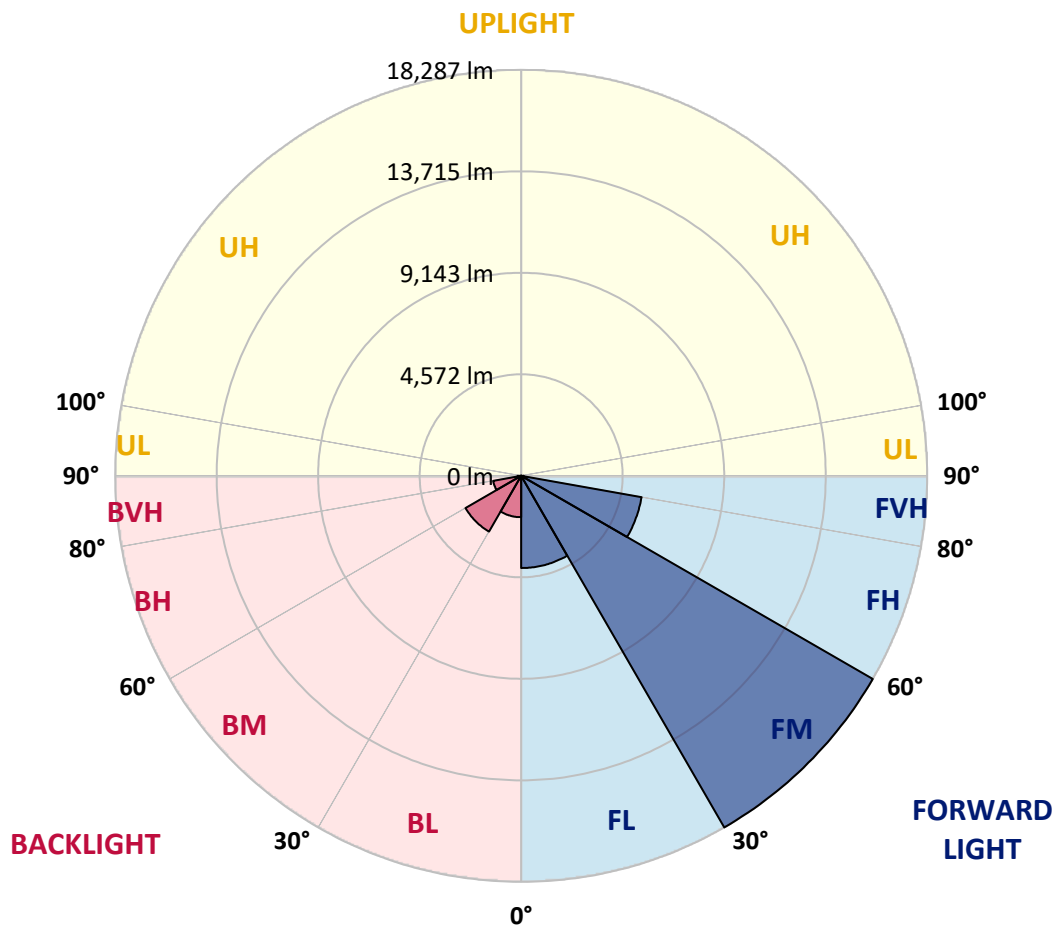
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4152.8	12.1			
FM	(30°-60°)	18286.9	53.4			
FH	(60°-80°)	5508.6	16.1			G3/7500
FVH	(80°-90°)	115.7	0.3			G2/225
BL	(0°-30°)	1863.5	5.4	B3/2500		
BM	(30°-60°)	2897.8	8.5	B3/5000		
BH	(60°-80°)	1280.4	3.7	B3/2500		G3/2500
BVH	(80°-90°)	158.2	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-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4
2.5°	9850.1	9843.1	9882.0	9749.2	9658.8	9536.6	9375.4	9170.0	8948.6	8714.8	8613.8
5°	10737.6	10675.6	10716.3	10617.1	10517.9	10333.7	10094.6	9759.8	9350.6	8884.8	8636.8
7.5°	10597.6	10555.1	10659.6	10748.2	10822.6	10799.6	10624.2	10273.5	9745.6	9069.0	8709.4
10°	9469.3	9421.5	9568.5	9874.9	10324.9	10716.3	10928.9	10711.0	10149.5	9270.9	8780.3
12.5°	8473.9	8450.8	8548.2	8796.2	9295.7	10046.8	10889.9	11093.6	10569.3	9510.1	8875.9
15°	8048.7	8020.4	8082.4	8208.2	8527.0	9226.7	10535.6	11355.7	10982.0	9786.4	9028.3
17.5°	7954.9	7923.0	7949.6	8015.1	8220.6	8753.7	10000.7	11485.0	11412.4	10094.6	9155.8
20°	8128.5	8101.9	8105.4	8101.9	8245.4	8668.7	9628.7	11435.5	11787.9	10378.0	9279.8
22.5°	8548.2	8504.0	8505.7	8411.9	8489.8	8817.5	9531.3	11302.6	12122.7	10626.0	9373.7
25°	9232.0	9152.3	9168.2	8929.1	8907.8	9150.5	9683.6	11199.9	12455.7	10824.4	9391.4
27.5°	10167.2	10076.9	10029.0	9673.0	9503.0	9623.4	9993.6	11235.3	12771.0	10996.2	9347.1
30°	11336.3	11226.4	11129.0	10624.2	10316.0	10271.7	10475.4	11469.1	13143.0	11176.8	9270.9
32.5°	12769.2	12641.7	12464.6	11795.0	11361.1	11129.0	11098.9	11885.4	13578.7	11407.1	9232.0
35°	14475.0	14308.5	14057.0	13190.8	12641.7	12167.0	11920.8	12485.8	14175.6	11754.3	9276.2
37.5°	16232.1	16044.4	15814.1	14783.2	14108.3	13408.7	12923.3	13300.6	14970.9	12225.4	9393.2
40°	17852.8	17642.1	17427.7	16510.2	15785.7	14942.6	14150.8	14331.5	15943.4	12788.7	9591.5
42.5°	18809.3	18653.5	18572.0	18076.0	17516.3	16660.8	15677.7	15553.7	17036.3	13437.0	9818.3
45°	18766.8	18703.1	18954.6	19160.1	19027.2	18552.5	17466.7	16905.2	18132.7	13998.5	10027.3
47.5°	17764.3	17806.8	18368.3	19523.2	20031.5	20279.5	19503.7	18231.9	19085.7	14418.3	10121.2
50°	15036.5	15071.9	16372.0	18862.5	20290.1	21687.7	21524.7	19526.7	19824.3	14675.1	10099.9
52.5°	12877.3	12900.3	13458.3	16903.4	19436.4	22396.2	23345.6	20747.1	20364.5	14746.0	9981.2
55°	9699.6	9779.3	10404.6	13261.7	17215.2	21834.7	24454.4	22004.7	20706.4	14753.1	9857.2
57.5°	5666.4	5753.2	6525.4	9001.7	13380.3	19877.4	24622.7	23120.7	20938.4	14696.4	9782.8
60°	2775.6	2812.8	3149.4	4731.1	8250.7	16106.3	23269.4	23660.9	21067.7	14666.3	9779.3
62.5°	1870.5	1865.2	1879.3	2334.6	4065.1	10347.9	20449.6	22715.0	20998.7	14551.2	9743.9
65°	1608.3	1588.8	1535.7	1638.4	2106.1	4732.9	15799.9	19891.6	20472.6	14262.4	9501.2
67.5°	1390.5	1392.2	1394.0	1362.1	1503.8	2184.0	9655.3	15668.8	18584.4	12895.0	8566.0
70°	1151.3	1167.3	1174.4	1174.4	1225.7	1433.0	4121.8	10739.3	14659.2	10110.5	6899.2
72.5°	1048.6	1014.9	1018.5	1000.8	1000.8	1091.1	1659.7	6087.9	9235.5	5687.6	4210.4
75°	855.5	876.8	880.3	867.9	827.2	832.5	984.8	2554.2	3951.7	2359.4	2081.3
77.5°	738.6	738.6	745.7	736.9	705.0	623.5	657.1	990.2	1344.4	967.1	1039.7
80°	593.4	591.6	621.7	639.4	589.8	460.5	419.8	547.3	596.9	425.1	540.2
82.5°	288.7	306.4	426.9	487.1	448.1	333.0	256.8	340.1	318.8	187.8	242.7
85°	168.3	159.4	191.3	271.0	256.8	184.2	124.0	177.1	166.5	95.6	97.4
87.5°	53.1	49.6	39.0	92.1	74.4	51.4	33.7	51.4	46.1	21.3	21.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4	8585.4
2.5°	8488.0	8279.0	8071.8	7882.2	7767.1	7692.7	7618.3	7535.1	7503.2	7455.4
5°	8403.0	7999.1	7639.6	7329.6	7048.0	6826.6	6603.4	6422.7	6341.2	6396.1
7.5°	8353.4	7768.9	7214.5	6645.9	6098.6	5661.0	5280.2	5012.8	4892.3	4922.4
10°	8309.1	7508.5	6663.6	5765.6	4979.1	4437.1	4047.4	3843.7	3767.5	3783.5
12.5°	8268.4	7216.2	5999.4	4817.9	3981.9	3624.1	3512.5	3514.2	3528.4	3539.0
15°	8261.3	6863.8	5257.2	3988.9	3443.4	3420.4	3540.8	3617.0	3657.7	3670.1
17.5°	8250.7	6442.2	4500.8	3423.9	3312.3	3468.2	3579.8	3629.4	3661.3	3663.0
20°	8208.2	5907.3	3803.0	3154.7	3284.0	3418.6	3487.7	3526.6	3553.2	3562.1
22.5°	8077.1	5312.1	3259.2	3034.2	3170.6	3278.7	3360.1	3404.4	3420.4	3431.0
25°	7841.5	4646.1	2883.7	2919.1	3013.0	3149.4	3214.9	3223.7	3218.4	3234.4
27.5°	7533.3	3932.3	2649.9	2763.2	2883.7	3000.6	3036.0	3030.7	3020.1	3037.8
30°	7161.3	3291.1	2501.1	2587.9	2752.6	2858.9	2890.7	2878.3	2857.1	2876.6
32.5°	6768.1	2766.8	2378.8	2465.6	2644.5	2749.0	2780.9	2768.5	2752.6	2768.5
35°	6401.4	2400.1	2265.5	2384.2	2559.5	2662.2	2703.0	2704.8	2704.8	2724.2
37.5°	6064.9	2185.8	2171.6	2332.8	2501.1	2593.2	2651.6	2655.2	2579.0	2584.3
40°	5753.2	2095.4	2129.1	2299.1	2444.4	2532.9	2536.5	2338.1	2198.2	2194.6
42.5°	5498.1	2077.7	2141.5	2295.6	2403.6	2407.2	2157.4	2003.3	1964.4	1966.1
45°	5259.0	2072.4	2169.8	2295.6	2343.4	2079.5	1911.2	1870.5	1874.0	1888.2
47.5°	4991.5	2051.2	2175.1	2263.7	2169.8	1849.2	1799.6	1781.9	1774.8	1778.4
50°	4699.2	1975.0	2107.8	2199.9	1872.3	1750.0	1688.0	1682.7	1691.6	1696.9
52.5°	4391.0	1851.0	1992.7	2084.8	1735.9	1663.2	1594.2	1606.6	1645.5	1657.9
55°	4189.1	1705.8	1840.4	1854.5	1640.2	1581.8	1523.3	1551.7	1624.3	1647.3
57.5°	4136.0	1551.7	1666.8	1650.8	1518.0	1510.9	1475.5	1500.3	1592.4	1626.0
60°	4120.0	1413.5	1496.7	1484.3	1399.3	1433.0	1424.1	1436.5	1468.4	1479.0
62.5°	3996.0	1303.7	1344.4	1326.7	1293.0	1351.5	1372.8	1346.2	1371.0	1383.4
65°	3680.7	1215.1	1195.6	1183.2	1197.4	1250.5	1293.0	1239.9	1262.9	1298.4
67.5°	3160.0	1094.7	1041.5	1055.7	1100.0	1128.3	1183.2	1123.0	1142.5	1202.7
70°	2556.0	942.3	894.5	935.2	977.8	1036.2	1045.1	1004.3	1050.4	1117.7
72.5°	1808.5	788.2	754.6	837.8	852.0	928.2	908.7	889.2	953.0	976.0
75°	1254.1	635.9	616.4	680.2	731.5	797.1	782.9	805.9	940.6	951.2
77.5°	793.5	494.2	481.8	522.5	593.4	666.0	689.0	951.2	1606.6	1670.3
80°	460.5	368.4	354.3	386.1	448.1	515.4	664.2	1167.3	1059.2	1046.8
82.5°	256.8	253.3	235.6	244.4	299.3	372.0	938.8	821.9	667.8	689.0
85°	120.4	148.8	127.5	122.2	168.3	435.7	627.0	469.4	311.7	304.7
87.5°	31.9	28.3	28.3	31.9	70.9	375.5	249.8	200.2	118.7	115.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)