

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: P944679

Luminaire Tested: **GALN-SB9D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944679
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-SB9D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 84971 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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



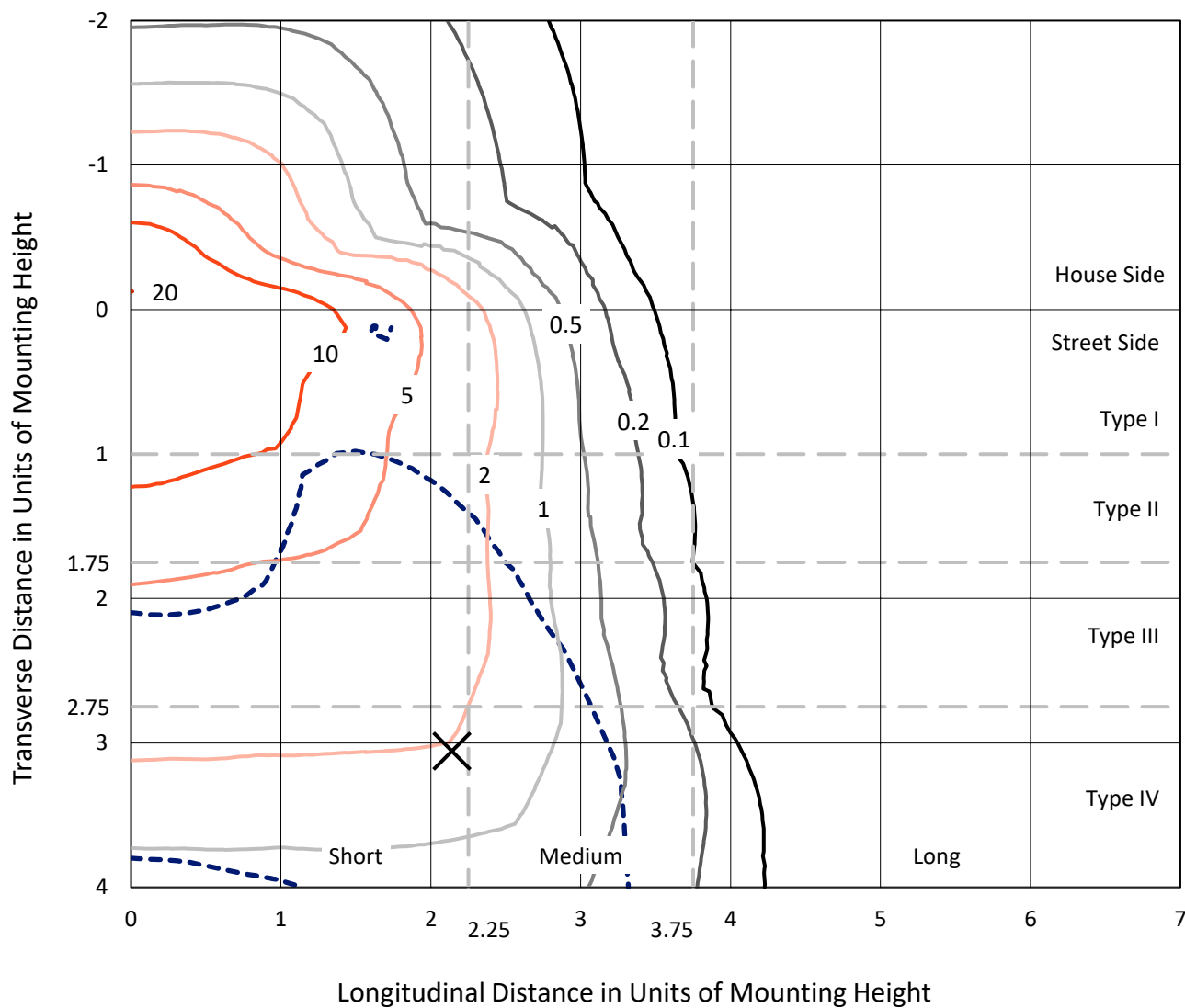
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

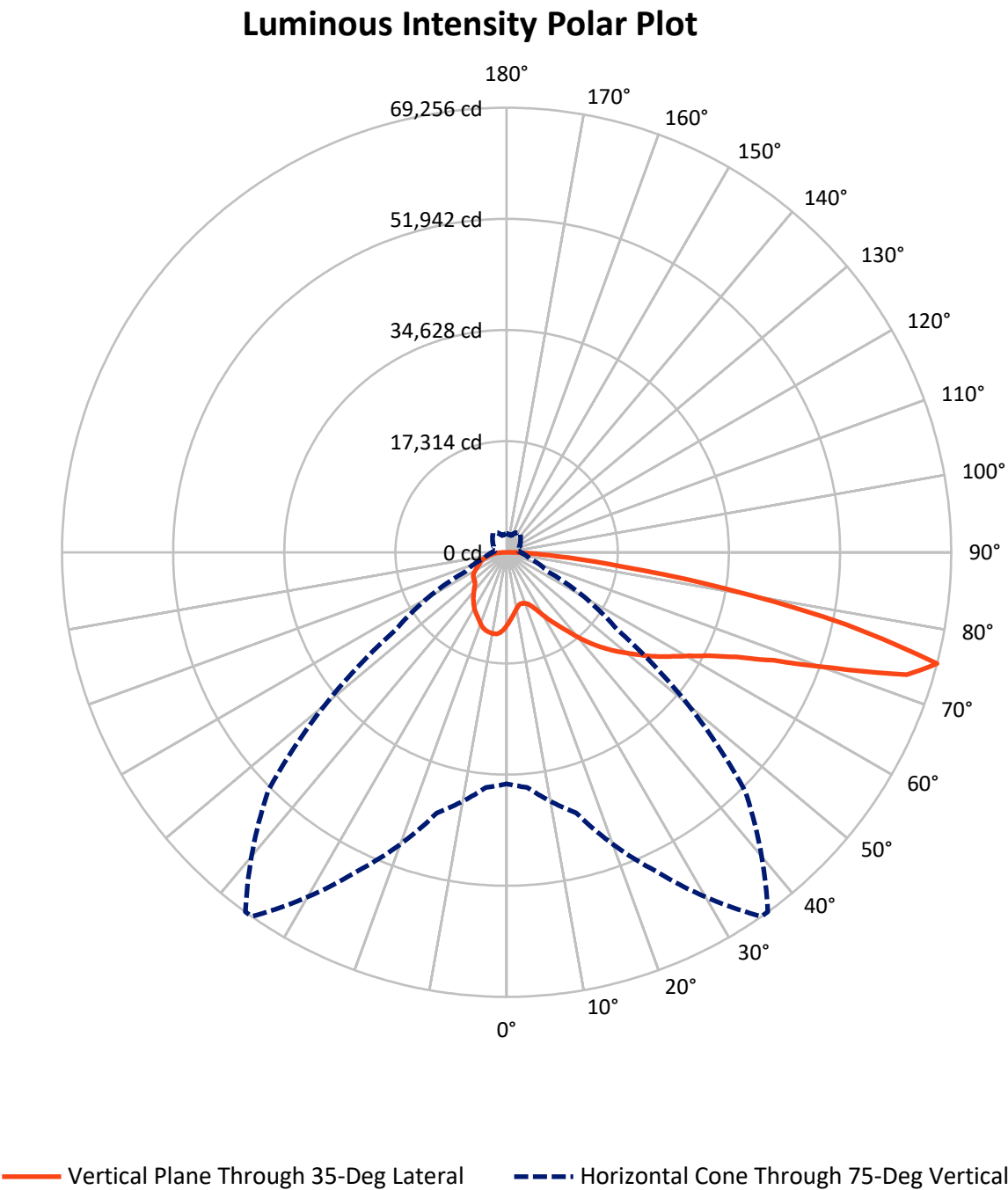
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc

Type IV - Short - N/A

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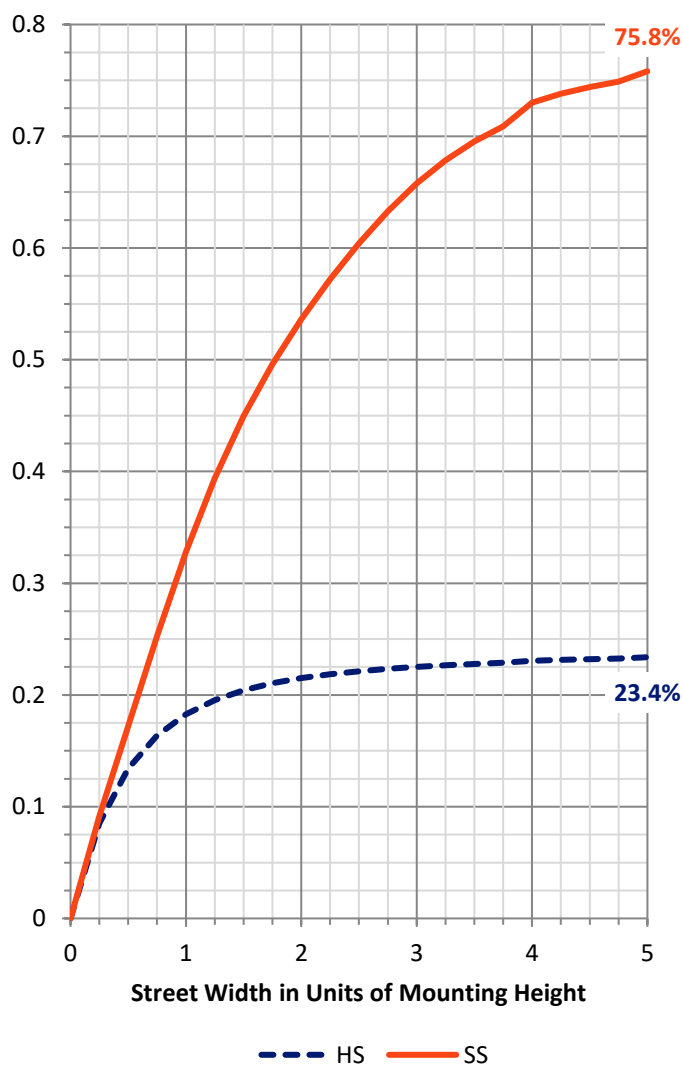
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20221.0	0.0	20221.0
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	64750.0	0.0	64750.0
	% Fixture	76.2	0.0	76.2
Total	Lumens	84971.0	0.0	84971.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1072.1	1.3
10°-20°	3092.3	3.6
20°-30°	5192.7	6.1
30°-40°	8070.2	9.5
40°-50°	11978.4	14.1
50°-60°	16536.9	19.5
60°-70°	20063.0	23.6
70°-80°	16580.6	19.5
80°-90°	2384.8	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°	84971.0	100.0
0°-180°	84971.0	100.0

Coefficient of Utilization



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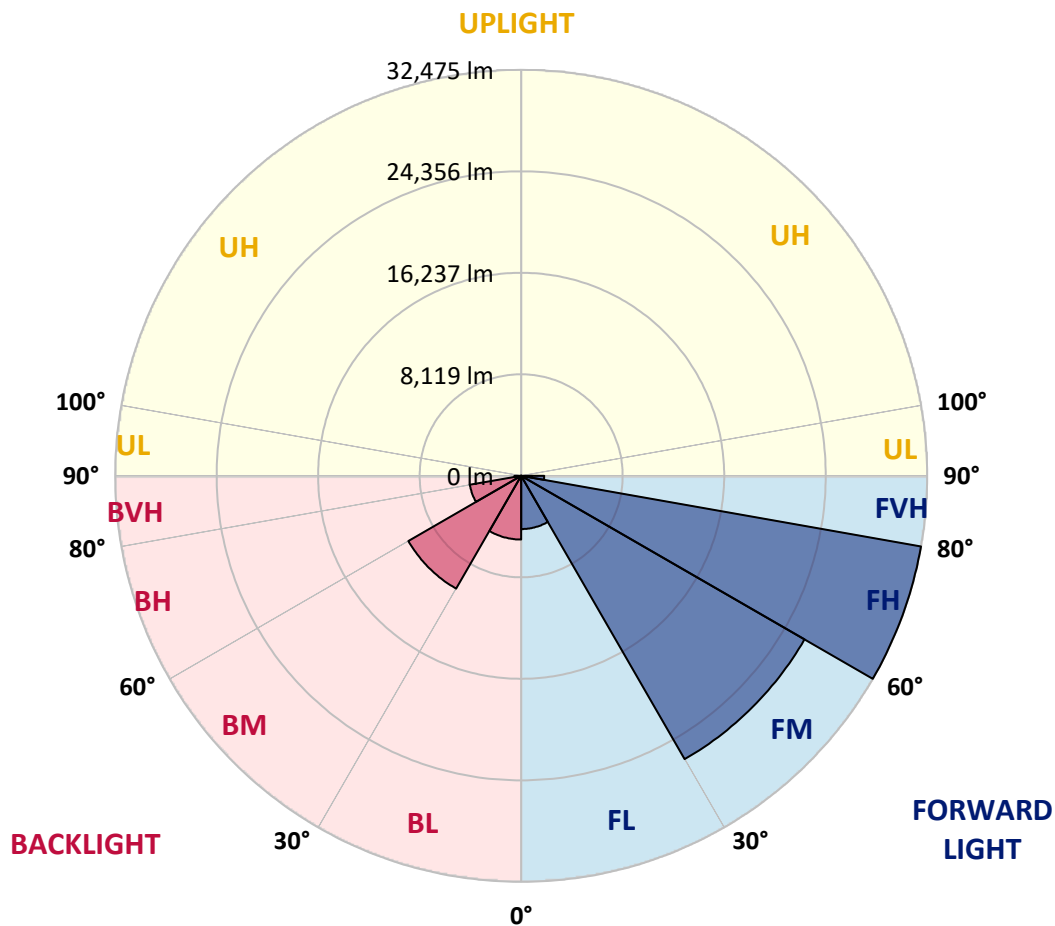
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4261.1	5.0			
FM	(30°-60°)	26166.5	30.8			
FH	(60°-80°)	32474.6	38.2			G5
FVH	(80°-90°)	1847.8	2.2			G5
BL	(0°-30°)	5096.0	6.0	B5		
BM	(30°-60°)	10419.1	12.3	B5		
BH	(60°-80°)	4168.9	4.9	B4/5000		G4/5000
BVH	(80°-90°)	537.0	0.6			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0
2.5°	10441.0	10505.3	10532.9	10519.1	10588.0	10578.8	10675.3	10794.7	10960.1	11120.8	11355.1
5°	9637.1	9706.1	9765.8	9820.9	9954.1	9995.4	10147.0	10376.7	10679.9	10987.6	11373.5
7.5°	8888.4	8948.1	9040.0	9141.1	9366.1	9407.5	9660.1	10018.4	10441.0	10891.2	11424.0
10°	8277.5	8337.2	8433.7	8548.5	8828.7	8879.2	9200.8	9678.5	10229.7	10799.3	11479.1
12.5°	8015.6	8034.0	8089.1	8204.0	8447.4	8479.6	8833.3	9379.9	10023.0	10730.4	11561.8
15°	8001.9	8038.6	8043.2	8102.9	8305.0	8318.8	8645.0	9187.0	9894.4	10716.6	11685.8
17.5°	8139.7	8167.2	8125.9	8162.6	8332.6	8355.6	8612.8	9095.1	9853.0	10776.3	11897.1
20°	8507.1	8530.1	8406.1	8355.6	8479.6	8498.0	8750.6	9154.8	9894.4	10900.4	12186.5
22.5°	9288.0	9301.8	8998.7	8791.9	8801.1	8810.3	9030.8	9398.3	10055.2	11125.4	12554.0
25°	10505.3	10496.1	10013.8	9614.2	9384.5	9334.0	9481.0	9793.3	10326.2	11424.0	13027.1
27.5°	11929.3	11860.4	11378.1	10780.9	10280.2	10206.7	10174.6	10307.8	10712.0	11819.1	13605.9
30°	13537.0	13472.7	12953.7	12172.8	11479.1	11359.7	11056.5	10987.6	11286.2	12356.5	14409.8
32.5°	15300.9	15259.6	14639.5	13693.2	12765.3	12627.5	12117.6	11933.9	12168.2	13169.5	15530.6
35°	16780.0	16743.3	16228.8	15255.0	14120.4	13950.4	13431.4	13224.7	13344.1	14212.3	16995.9
37.5°	18116.7	18098.4	17657.4	16890.3	15718.9	15512.2	14928.9	14860.0	14837.0	15585.7	18773.6
40°	19357.0	19311.0	18851.7	18447.5	17579.3	17391.0	16876.5	16816.8	16642.2	17276.1	20785.6
42.5°	20730.4	20611.0	19944.9	19756.6	19522.3	19366.2	19058.4	19067.6	18681.7	19182.4	22916.9
45°	21851.2	21782.3	21097.9	20987.7	21240.3	21176.0	21442.4	21511.3	20762.6	21180.6	25131.0
47.5°	23054.7	22990.4	22411.7	22333.6	23018.0	23036.4	23978.0	24001.0	22792.9	23256.9	27349.7
50°	24538.4	24446.6	23872.4	23968.8	24736.0	24804.9	26527.4	26371.2	24662.5	25365.3	29549.9
52.5°	25516.9	25572.0	25448.0	25604.1	26651.4	26715.8	29035.5	28635.8	26513.6	27446.1	31708.9
55°	26238.0	26348.3	26734.1	27092.4	28672.6	28736.9	31401.1	30790.2	28047.9	29375.4	33739.2
57.5°	27165.9	27009.7	27730.9	28429.1	30592.7	30762.6	33702.5	32866.4	29407.5	31038.2	35131.0
60°	28498.0	28387.8	28948.2	29981.7	32742.4	33013.4	36137.0	34736.0	30404.3	32356.6	35402.1
62.5°	31199.0	30923.4	31010.7	31924.8	35452.6	35810.9	38883.9	36366.7	30900.4	32871.0	33950.5
65°	35236.7	34763.6	34322.6	34956.5	39269.8	39623.5	41984.5	37648.3	30716.7	31874.2	30096.6
67.5°	40321.7	39853.1	39311.1	39908.3	44892.2	45172.4	45810.9	38369.4	29269.7	28034.1	23284.4
70°	44515.5	44341.0	44988.7	47446.2	53872.5	53881.7	50716.8	37772.3	25305.6	19876.0	13472.7
72.5°	43959.7	43854.1	47267.0	54864.7	65190.9	64947.4	55360.8	33252.3	17046.5	8966.5	5048.2
75°	36063.5	36747.9	42035.1	54731.5	69256.1	69223.9	52517.4	21139.3	7051.0	3716.1	2609.1
77.5°	19338.6	20422.7	27289.9	40409.0	54065.4	54878.5	36922.5	7395.5	3027.1	2379.4	1805.2
80°	6306.9	7253.1	10877.4	20574.3	35131.0	34979.5	15824.6	2903.1	2071.7	1685.8	1249.4
82.5°	2678.0	2788.3	4859.9	9715.2	18029.5	17749.3	5039.1	1667.4	1456.1	1153.0	771.7
85°	1047.3	1171.3	2145.2	4492.4	7808.9	7639.0	1819.0	826.8	932.5	753.3	459.3
87.5°	344.5	418.0	767.1	1538.8	2430.0	2342.7	445.6	284.8	404.2	344.5	165.4
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°	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0	11323.0
2.5°	11419.4	11492.9	11580.2	11708.8	11819.1	11910.9	12007.4	12067.1	12090.1	12159.0	12154.4
5°	11502.1	11662.9	11878.8	12090.1	12296.8	12420.8	12531.0	12586.2	12636.7	12673.4	12682.6
7.5°	11639.9	11846.6	12186.5	12462.1	12636.7	12737.8	12811.3	12792.9	12811.3	12820.4	12834.2
10°	11759.3	12048.7	12453.0	12714.8	12848.0	12852.6	12834.2	12769.9	12737.8	12742.3	12751.5
12.5°	11901.7	12223.3	12659.7	12880.2	12916.9	12815.8	12737.8	12627.5	12586.2	12567.8	12558.6
15°	12094.7	12462.1	12884.7	12967.4	12875.6	12746.9	12613.7	12434.6	12342.7	12269.2	12292.2
17.5°	12328.9	12733.2	13059.3	12999.6	12802.1	12590.8	12374.9	12103.9	11915.5	11837.4	11842.0
20°	12655.1	13018.0	13192.5	12930.7	12632.1	12310.6	11943.1	11612.4	11437.8	11359.7	11350.5
22.5°	13050.1	13399.2	13321.1	12811.3	12388.7	11874.2	11414.8	11171.4	11084.1	11029.0	11038.2
25°	13523.2	13821.8	13413.0	12636.7	11989.0	11295.4	10941.7	10863.6	10822.3	10780.9	10780.9
27.5°	14138.8	14299.5	13481.9	12379.5	11364.3	10679.9	10551.3	10565.0	10551.3	10482.4	10496.1
30°	14951.8	14919.7	13546.2	11961.5	10647.7	10124.1	10133.2	10193.0	10202.1	10156.2	10179.2
32.5°	16022.1	15696.0	13578.4	11419.4	9963.3	9637.1	9646.3	9710.6	9756.6	9678.5	9715.2
35°	17317.5	16600.9	13527.8	10739.6	9435.0	9173.2	9104.3	9122.7	9136.5	9063.0	9113.5
37.5°	18828.7	17616.0	13302.8	9986.3	8998.7	8718.4	8571.5	8447.4	8373.9	8305.0	8351.0
40°	20487.0	18723.1	12889.3	9251.3	8511.7	8236.1	8015.6	7781.4	7533.3	7441.5	7482.8
42.5°	22223.3	19862.3	12388.7	8548.5	7951.3	7726.3	7492.0	7152.1	6780.0	6591.7	6614.6
45°	24024.0	21029.0	11897.1	7854.9	7377.1	7280.7	7009.7	6600.8	6196.6	5957.8	5939.4
47.5°	25787.9	22131.4	11176.0	7156.7	6839.7	6945.4	6734.1	6357.4	5907.2	5530.6	5489.2
50°	27473.7	23165.0	9995.4	6449.3	6403.3	6844.3	6642.2	6100.2	5585.7	5103.4	5062.0
52.5°	29145.7	24001.0	8484.2	5806.2	6169.1	6816.7	6522.8	5925.6	5296.3	4791.0	4735.9
55°	30565.1	24432.8	7028.0	5255.0	5829.1	6582.5	6380.4	5718.9	4887.5	4350.0	4304.1
57.5°	31373.6	24083.7	5815.4	4712.9	5360.6	6196.6	6136.9	5277.9	4400.6	3987.2	3932.0
60°	31024.5	22668.9	4823.2	4239.8	4915.0	5778.6	5714.3	4841.5	4028.5	3638.0	3582.9
62.5°	29099.8	19972.5	4037.7	3826.4	4510.8	5351.4	5291.7	4506.2	3743.7	3367.0	3307.3
65°	25222.9	16247.2	3426.7	3481.9	4102.0	4836.9	4924.2	4226.0	3518.6	3151.1	3091.4
67.5°	19237.5	11768.5	2949.0	3183.3	3702.4	4331.7	4584.3	4023.9	3330.3	2981.2	2926.1
70°	10964.7	6683.5	2544.8	2893.9	3348.7	3863.1	4322.5	3863.1	3128.2	2838.8	2802.0
72.5°	4157.1	3068.5	2200.3	2604.5	3008.7	3468.1	4033.1	3610.5	2893.9	2678.0	2641.3
75°	2218.7	1869.6	1851.2	2264.6	2618.3	3082.2	3670.2	3362.4	2719.3	2829.6	2921.5
77.5°	1511.3	1322.9	1548.0	1938.5	2191.1	2655.0	3284.3	2985.8	2356.5	2347.3	2163.5
80°	1047.3	937.1	1258.6	1561.8	1695.0	2232.4	2866.3	2563.2	1920.1	1791.5	1713.4
82.5°	629.3	610.9	941.7	1166.7	1198.9	1722.6	2374.8	2149.8	1571.0	1368.9	1378.0
85°	344.5	362.9	601.7	684.4	698.2	1203.5	1860.4	1662.8	1208.1	1015.2	1024.3
87.5°	96.5	124.0	220.5	271.0	335.3	624.7	1107.0	987.6	606.3	422.6	422.6
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)