

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: P941447

Luminaire Tested: **GALN-SB5A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941447
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21032 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - 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

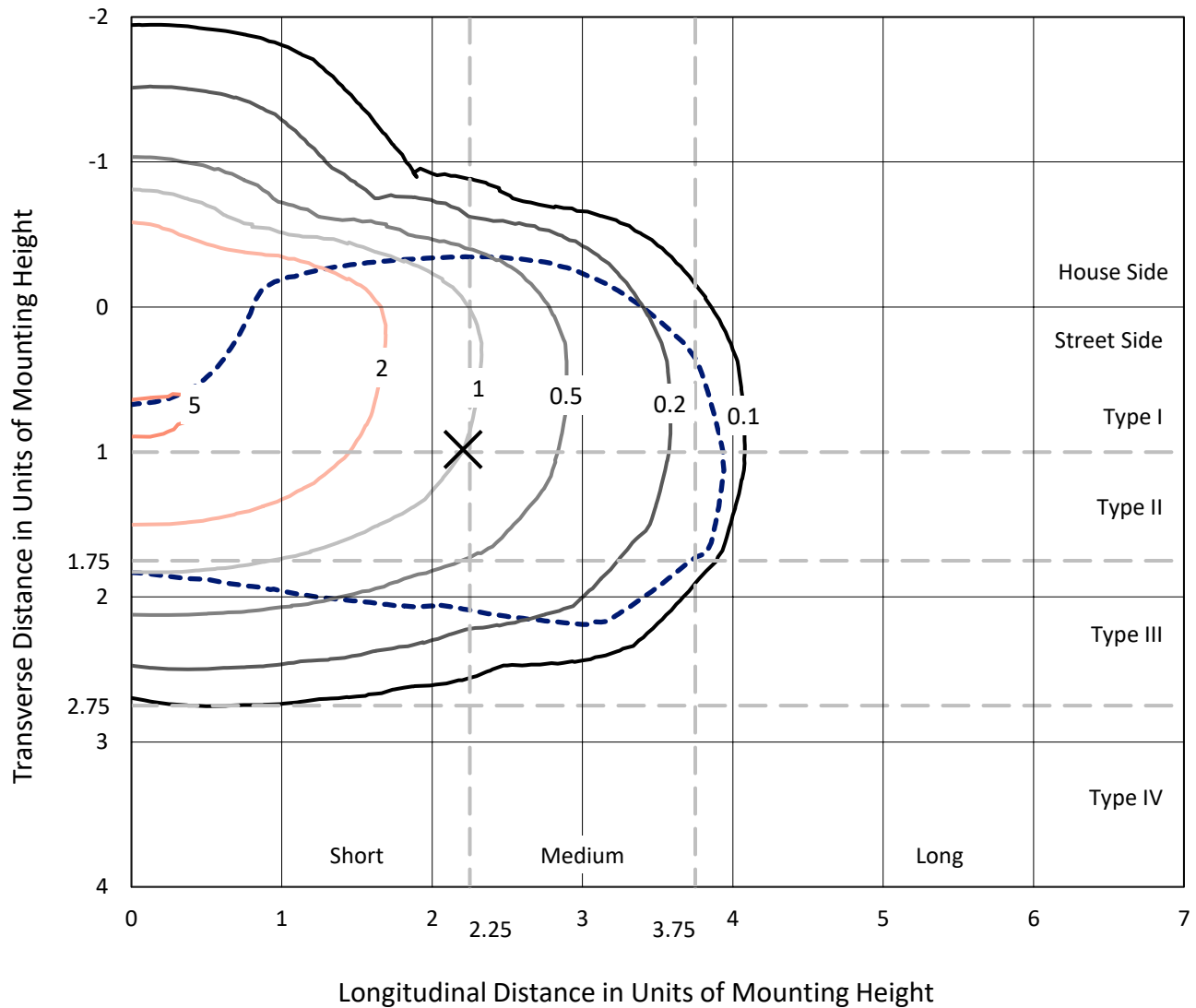


REPORT NUMBER: P941447

CATALOG NUMBER: GALN-SB5A-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

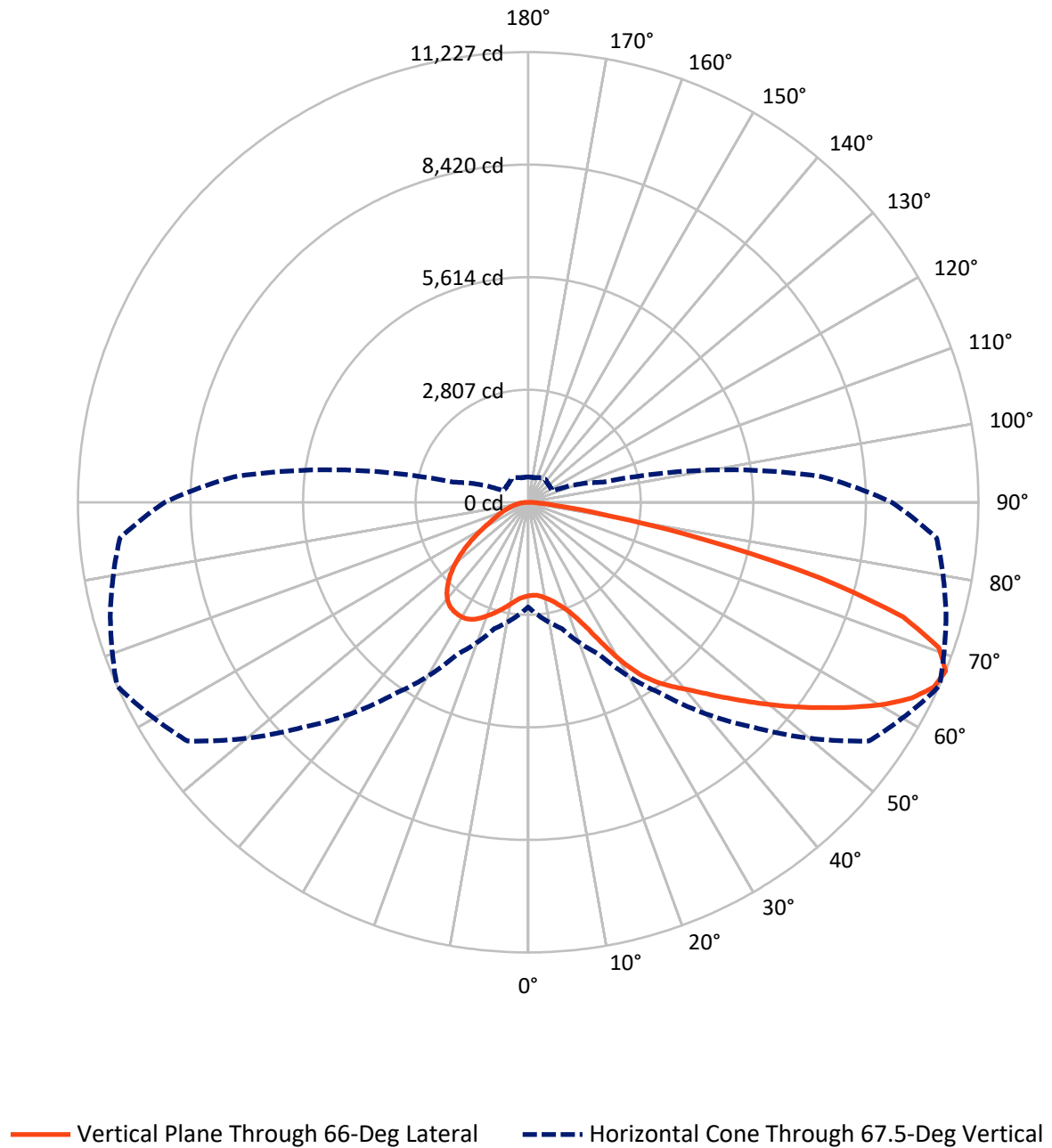


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Short - N/A

REPORT NUMBER: P941447

CATALOG NUMBER: GALN-SB5A-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P941447

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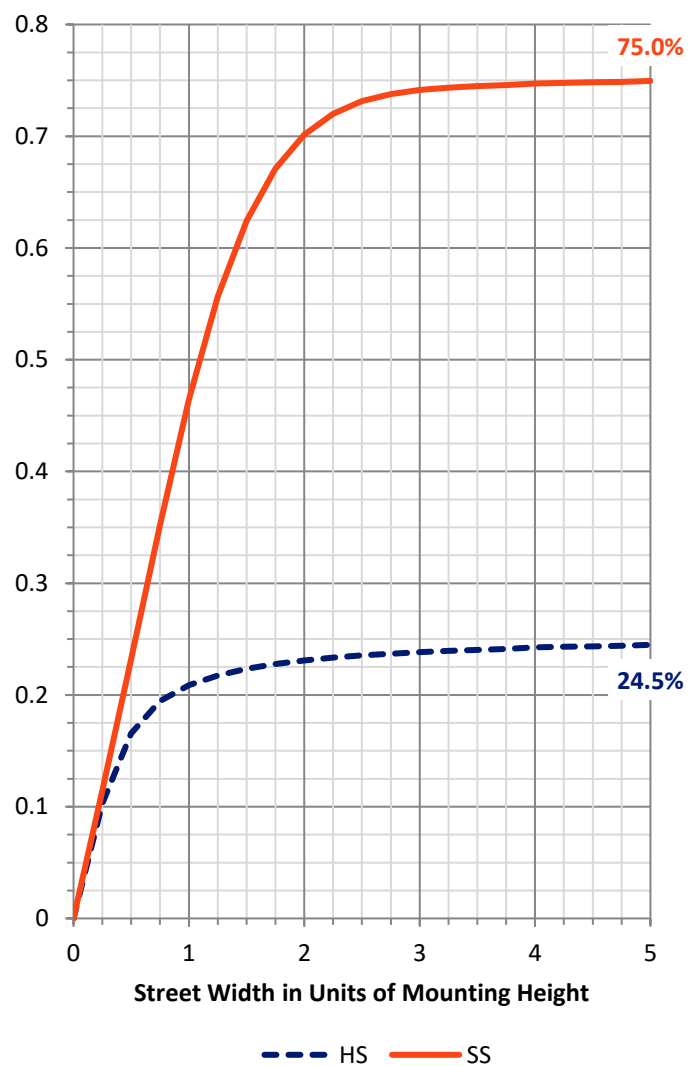
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5229.6	0.0	5229.6
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	15802.5	0.0	15802.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	21032.0	0.0	21032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.1
10°-20°	764.1	3.6
20°-30°	1472.8	7.0
30°-40°	2582.4	12.3
40°-50°	3839.1	18.3
50°-60°	4866.5	23.1
60°-70°	4761.7	22.6
70°-80°	2271.4	10.8
80°-90°	242.8	1.2
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°	21032.0	100.0
0°-180°	21032.0	100.0

Coefficient of Utilization



REPORT NUMBER: P941447

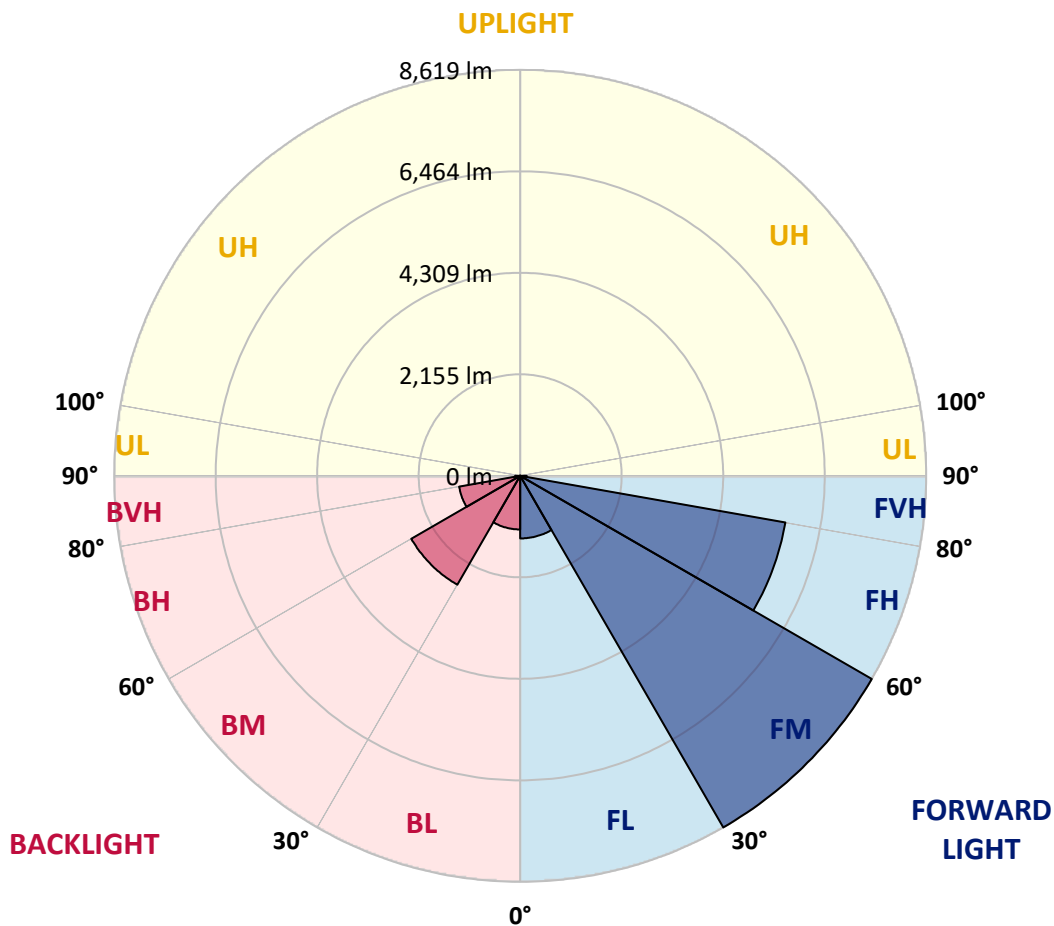
CATALOG NUMBER: GALN-SB5A-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.0	6.3			
FM	(30°-60°)	8618.7	41.0			
FH	(60°-80°)	5717.1	27.2			G3/7500
FVH	(80°-90°)	137.6	0.7			G2/225
BL	(0°-30°)	1139.2	5.4	B3/2500		
BM	(30°-60°)	2669.2	12.7	B3/5000		
BH	(60°-80°)	1316.0	6.3	B3/2500		G3/2500
BVH	(80°-90°)	105.1	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 III Short



REPORT NUMBER: P941447

CATALOG NUMBER: GALN-SB5A-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2308.4	2321.7	2318.4	2312.8	2311.7	2313.9	2317.3	2320.6	2319.5	2325.0	2333.8
5°	2301.8	2315.0	2313.9	2313.9	2318.4	2327.2	2332.7	2338.3	2332.7	2339.4	2351.5
7.5°	2306.2	2316.2	2320.6	2325.0	2336.0	2352.6	2365.9	2378.0	2371.4	2379.1	2394.6
10°	2362.6	2370.3	2374.7	2374.7	2382.5	2401.2	2414.5	2436.6	2431.1	2443.2	2463.1
12.5°	2465.3	2473.1	2473.1	2468.6	2474.2	2486.3	2490.7	2515.1	2505.1	2525.0	2544.9
15°	2591.3	2606.8	2594.6	2586.9	2589.1	2601.3	2600.1	2618.9	2609.0	2625.6	2643.2
17.5°	2730.5	2750.4	2730.5	2729.4	2725.0	2738.3	2739.4	2756.0	2738.3	2750.4	2762.6
20°	2895.2	2922.8	2906.2	2911.8	2901.8	2907.3	2912.9	2937.2	2909.6	2918.4	2915.1
22.5°	3127.2	3160.4	3142.7	3163.7	3157.1	3152.7	3151.6	3194.7	3151.6	3154.9	3122.8
25°	3465.4	3505.2	3474.2	3503.0	3503.0	3517.3	3533.9	3589.2	3517.3	3496.3	3413.4
27.5°	3964.9	4004.6	3943.9	3961.5	3956.0	3991.4	3973.7	4110.7	4033.4	3999.1	3832.3
30°	4566.0	4636.7	4521.8	4517.4	4511.9	4568.2	4593.6	4684.2	4605.8	4571.5	4370.4
32.5°	5215.8	5289.8	5152.8	5113.0	5092.0	5126.3	5105.3	5178.2	5124.0	5071.0	4822.4
35°	5903.1	5976.0	5845.6	5768.3	5684.3	5612.5	5537.3	5556.1	5505.3	5424.6	5167.1
37.5°	6552.9	6686.6	6548.4	6465.6	6310.8	6170.5	5960.6	5873.3	5825.7	5751.7	5492.0
40°	7214.8	7291.0	7186.0	7115.3	6947.3	6727.4	6391.5	6207.0	6142.9	6071.1	5851.2
42.5°	7702.1	7775.0	7718.7	7670.0	7538.5	7283.3	6849.0	6618.0	6525.2	6444.6	6257.8
45°	8088.8	8143.0	8107.6	8125.3	8069.0	7821.4	7323.1	7059.0	6962.8	6864.5	6717.5
47.5°	8244.7	8302.1	8358.5	8463.5	8559.6	8377.3	7832.5	7536.3	7434.7	7334.1	7189.4
50°	8227.0	8285.5	8449.1	8672.3	8970.7	8909.9	8369.5	8044.6	7950.7	7835.8	7702.1
52.5°	8085.5	8151.8	8361.8	8733.1	9208.2	9308.8	8916.5	8569.5	8481.1	8344.1	8210.4
55°	7714.2	7754.0	8069.0	8595.0	9264.6	9587.3	9452.5	9128.7	9040.3	8849.1	8703.2
57.5°	7025.8	7083.3	7541.9	8222.6	9123.2	9776.2	9923.2	9716.6	9631.5	9356.3	9203.8
60°	6127.4	6219.1	6744.0	7597.1	8762.9	9775.1	10350.9	10294.5	10223.8	9855.8	9696.7
62.5°	5110.8	5216.9	5721.9	6713.1	8133.1	9497.8	10618.3	10778.5	10742.0	10316.6	10113.3
65°	3925.1	3998.0	4500.8	5569.4	7152.9	8902.2	10649.2	11108.9	11115.5	10666.9	10331.0
67.5°	2613.4	2823.4	3259.9	4179.2	5840.1	7928.6	10377.4	11163.1	11227.1	10787.3	10221.6
70°	1275.2	1551.5	1979.1	2716.2	4179.2	6435.7	9666.8	10718.8	10861.4	10435.9	9569.6
72.5°	529.3	618.8	852.0	1340.4	2399.0	4342.8	8239.1	9514.3	9778.4	9246.9	8045.8
75°	356.9	386.8	487.3	687.3	1092.9	2141.6	5941.8	7094.3	7519.8	6983.8	5708.6
77.5°	275.2	293.9	354.7	480.7	649.8	810.0	3180.3	4275.4	4495.3	4161.6	2970.3
80°	216.6	231.0	265.2	350.3	460.8	433.2	1084.0	1937.1	2064.2	1731.6	954.7
82.5°	187.9	193.4	190.1	237.6	306.1	253.1	355.8	715.0	789.0	572.4	311.6
85°	135.9	151.4	158.0	147.0	162.4	128.2	145.9	253.1	278.5	248.6	175.7
87.5°	55.3	81.8	100.6	95.0	59.7	36.5	45.3	74.0	85.1	92.8	57.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P941447

CATALOG NUMBER: GALN-SB5A-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7	2332.7
2.5°	2334.9	2342.7	2348.2	2354.8	2359.2	2365.9	2379.1	2386.9	2388.0	2393.5	2392.4
5°	2355.9	2367.0	2379.1	2396.8	2416.7	2433.3	2458.7	2476.4	2483.0	2488.5	2487.4
7.5°	2401.2	2416.7	2438.8	2469.8	2498.5	2520.6	2551.5	2572.5	2593.5	2601.3	2602.4
10°	2468.6	2490.7	2522.8	2564.8	2595.7	2624.5	2656.5	2674.2	2695.2	2704.0	2708.4
12.5°	2552.6	2575.8	2617.8	2676.4	2705.1	2725.0	2736.1	2731.6	2736.1	2743.8	2746.0
15°	2648.8	2674.2	2721.7	2784.7	2804.6	2786.9	2762.6	2740.5	2737.2	2739.4	2747.1
17.5°	2762.6	2781.4	2836.6	2889.7	2875.3	2802.4	2749.3	2714.0	2696.3	2690.8	2698.5
20°	2921.7	2921.7	2967.0	3000.2	2904.0	2780.3	2697.4	2639.9	2603.5	2588.0	2584.7
22.5°	3115.1	3097.4	3126.1	3102.9	2898.5	2718.4	2603.5	2504.0	2448.8	2426.7	2423.3
25°	3360.4	3339.4	3331.7	3188.0	2858.7	2620.0	2433.3	2312.8	2264.2	2252.1	2254.3
27.5°	3730.6	3677.6	3577.0	3234.4	2785.8	2465.3	2234.4	2122.8	2095.1	2096.2	2099.6
30°	4223.4	4117.4	3870.9	3242.2	2666.4	2246.5	2031.1	1951.5	1938.2	1943.8	1962.5
32.5°	4679.8	4579.3	4171.5	3206.8	2483.0	2032.2	1848.7	1795.7	1775.8	1782.4	1791.3
35°	5037.8	5010.2	4450.0	3157.1	2257.6	1831.0	1685.2	1639.9	1601.2	1592.4	1599.0
37.5°	5376.0	5364.9	4658.8	3087.5	2034.4	1688.5	1553.7	1494.0	1437.6	1406.7	1407.8
40°	5747.3	5736.2	4795.8	2980.3	1836.6	1564.7	1435.4	1357.0	1287.4	1231.0	1236.5
42.5°	6165.0	6099.8	4861.0	2826.7	1668.6	1459.7	1339.3	1233.2	1141.5	1089.6	1092.9
45°	6621.4	6474.4	4859.9	2631.1	1527.2	1363.6	1236.5	1086.2	1001.2	952.5	950.3
47.5°	7105.4	6832.4	4800.3	2414.5	1390.1	1257.5	1077.4	962.5	906.1	876.3	869.7
50°	7604.8	7167.3	4698.6	2165.9	1249.8	1137.1	978.0	899.5	856.4	828.8	818.8
52.5°	8074.5	7471.1	4575.9	1884.1	1107.2	1019.9	933.8	873.0	827.7	796.7	783.5
55°	8511.0	7733.0	4402.5	1595.7	991.2	941.5	912.8	861.9	810.0	773.5	759.2
57.5°	8898.8	7903.2	4103.0	1324.9	908.3	887.3	890.7	843.1	783.5	752.5	732.6
60°	9221.5	8028.1	3659.9	1074.1	840.9	834.3	856.4	807.8	738.2	702.8	687.3
62.5°	9414.9	8025.9	3116.2	879.6	783.5	785.7	811.1	763.6	692.9	659.7	649.8
65°	9398.3	7829.2	2519.5	752.5	728.2	730.4	763.6	715.0	655.3	635.4	634.3
67.5°	9065.7	7349.6	1932.7	669.7	667.4	677.4	716.1	681.8	632.1	629.9	633.2
70°	8165.1	6353.9	1392.3	603.3	604.5	618.8	669.7	660.8	619.9	624.3	623.2
72.5°	6547.3	4844.5	934.9	533.7	534.8	558.0	625.4	644.2	607.8	666.3	675.2
75°	4360.5	3021.2	601.1	459.7	460.8	490.6	586.8	612.2	574.6	664.1	669.7
77.5°	2095.1	1358.1	435.4	386.8	386.8	414.4	507.2	548.1	489.5	516.1	473.0
80°	723.8	510.5	342.6	311.6	305.0	323.8	427.6	475.2	422.1	389.0	364.7
82.5°	285.1	265.2	275.2	242.0	219.9	232.1	332.6	392.3	310.5	280.7	279.6
85°	163.5	172.4	194.5	160.2	127.1	142.5	244.2	281.8	234.3	206.6	211.1
87.5°	44.2	60.8	89.5	82.9	57.5	60.8	116.0	155.8	134.8	103.9	107.2
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)