

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: P948777

Luminaire Tested: **GALN-SB3D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3D-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25173 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

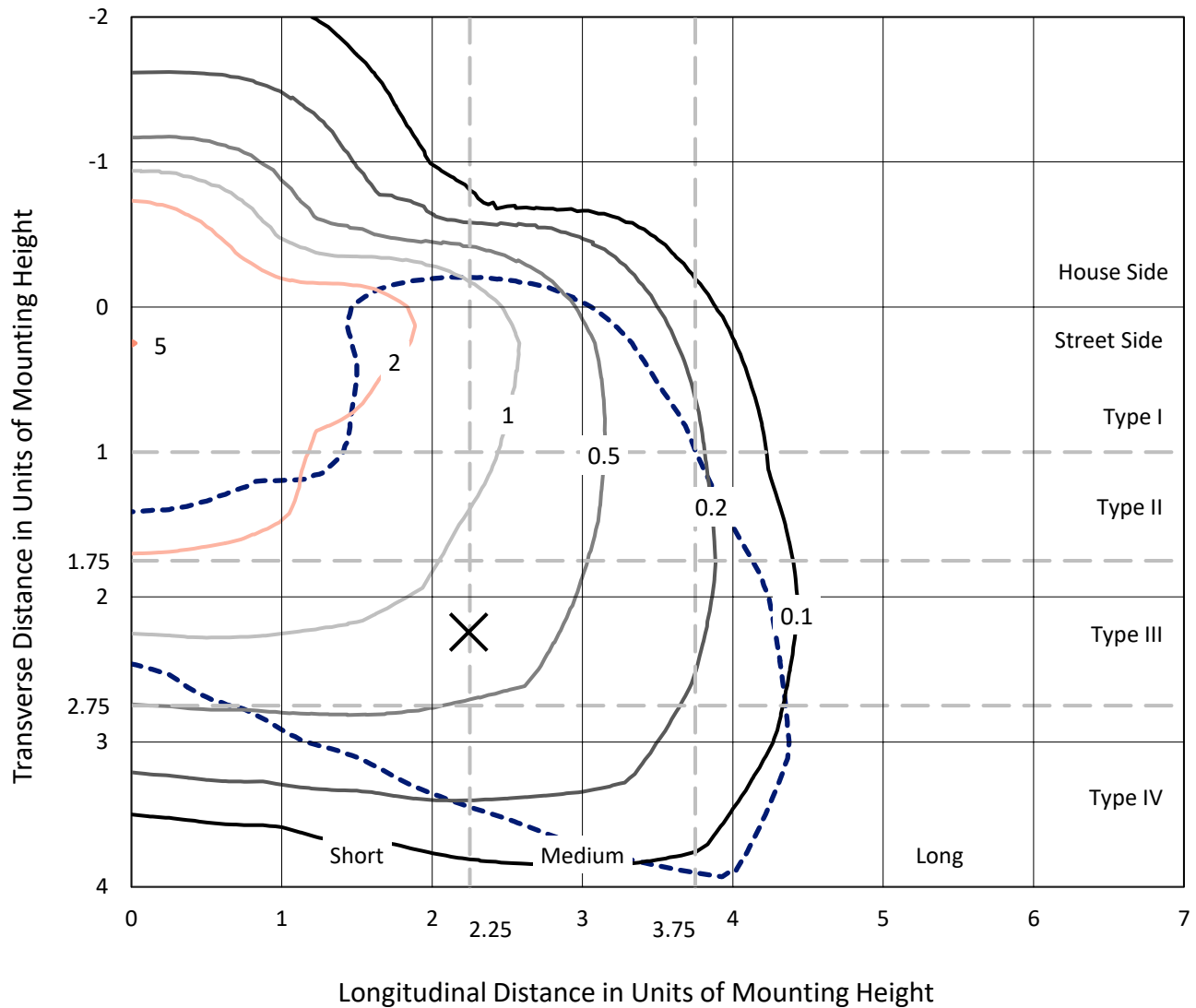


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

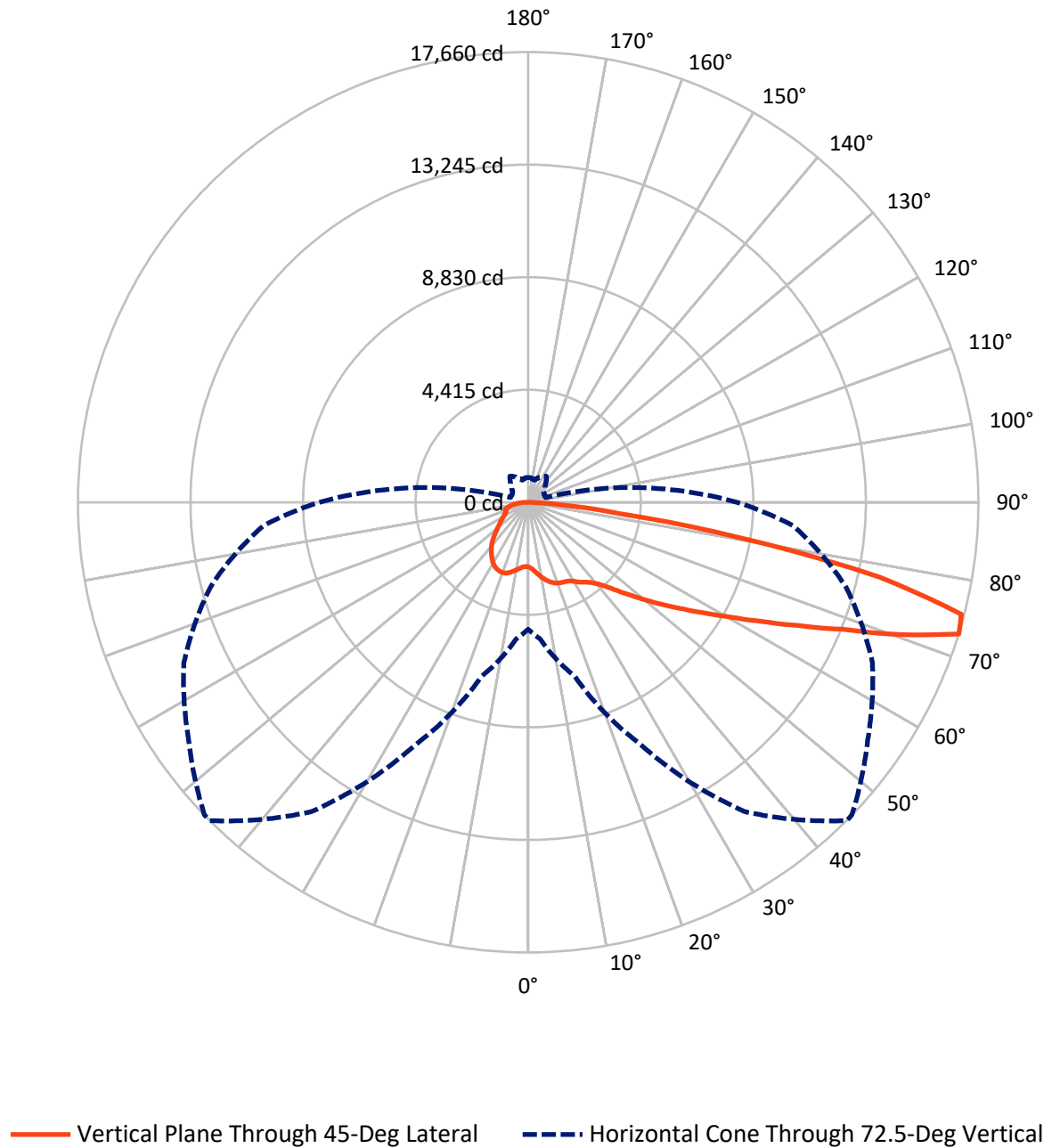


Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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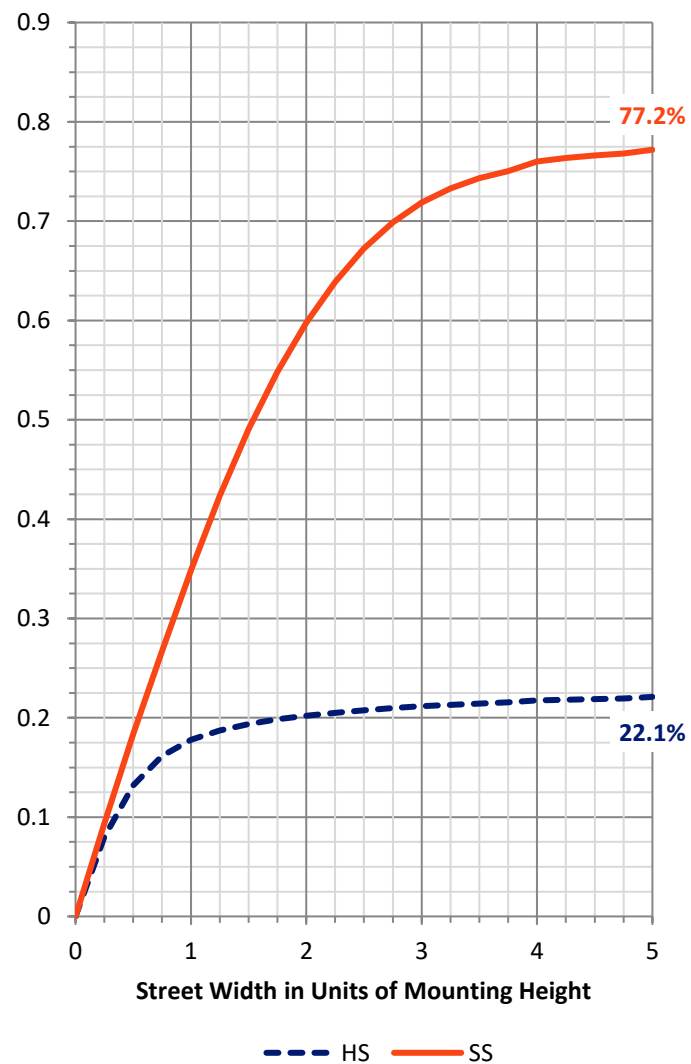
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5690.8	0.0	5690.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	19482.3	0.0	19482.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	25173.0	0.0	25173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.0
10°-20°	861.8	3.4
20°-30°	1499.1	6.0
30°-40°	2149.0	8.5
40°-50°	3026.0	12.0
50°-60°	4634.9	18.4
60°-70°	6714.3	26.7
70°-80°	5361.8	21.3
80°-90°	667.8	2.7
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°	25173.0	100.0
0°-180°	25173.0	100.0

Coefficient of Utilization



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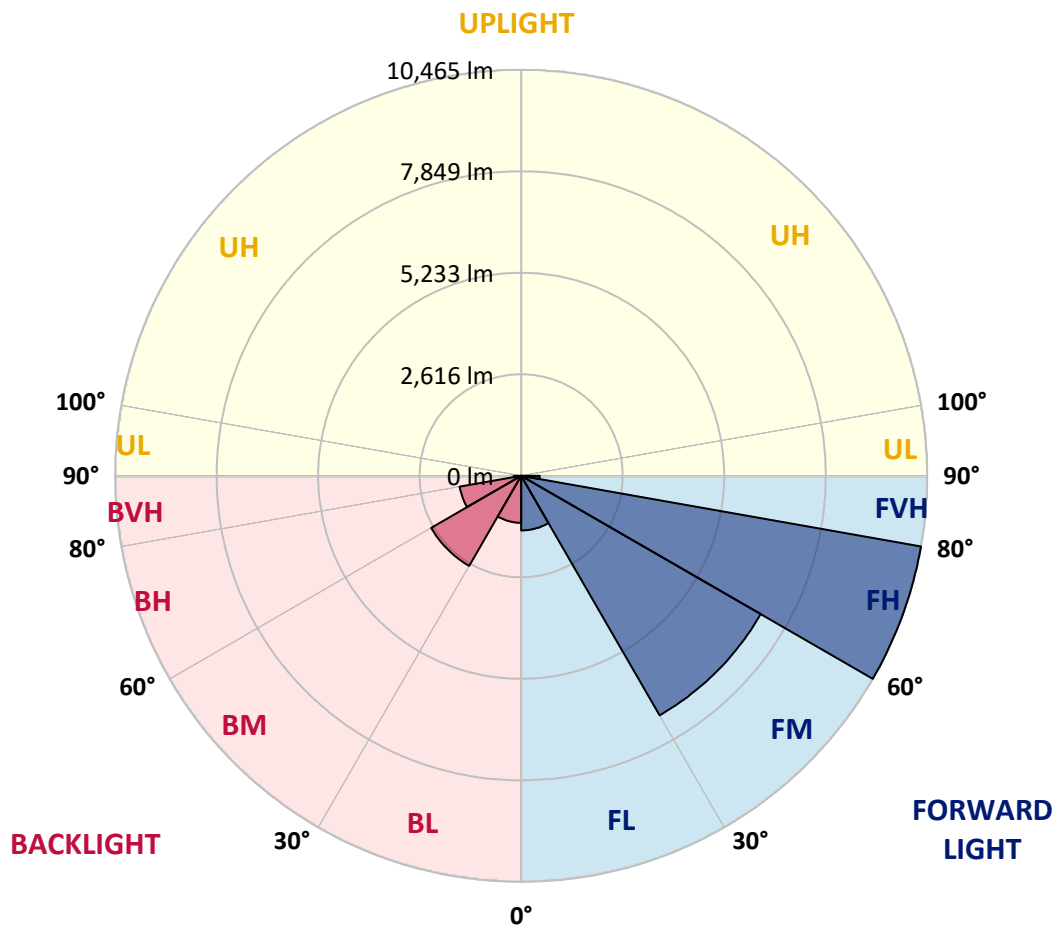
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1407.7	5.6			
FM	(30°-60°)	7130.3	28.3			
FH	(60°-80°)	10465.2	41.6			G4/12000
FVH	(80°-90°)	479.1	1.9			G3/500
BL	(0°-30°)	1211.6	4.8	B3/2500		
BM	(30°-60°)	2679.5	10.6	B3/5000		
BH	(60°-80°)	1610.9	6.4	B3/2500		G3/2500
BVH	(80°-90°)	188.7	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2.5°	2638.9	2656.2	2640.2	2625.7	2619.0	2601.8	2600.5	2589.9	2583.2	2564.7	2559.4
5°	2823.2	2845.8	2819.3	2790.1	2763.6	2721.1	2715.8	2685.3	2650.9	2611.1	2588.5
7.5°	3031.4	3051.3	3020.8	2977.1	2930.7	2860.4	2859.1	2803.4	2749.0	2681.4	2642.9
10°	3213.1	3239.6	3198.5	3138.9	3080.5	3000.9	2991.7	2928.0	2859.1	2771.5	2713.2
12.5°	3373.6	3392.1	3352.4	3279.4	3211.8	3132.2	3120.3	3050.0	2973.1	2873.6	2799.4
15°	3500.9	3524.8	3471.7	3393.5	3321.9	3243.6	3233.0	3169.4	3092.4	2987.7	2892.2
17.5°	3584.4	3604.3	3549.9	3462.4	3393.5	3328.5	3320.5	3267.5	3199.9	3093.8	2991.7
20°	3616.3	3637.5	3580.4	3491.6	3427.9	3377.6	3373.6	3335.1	3288.7	3191.9	3088.5
22.5°	3648.1	3668.0	3593.7	3500.9	3445.2	3413.4	3412.0	3386.8	3368.3	3288.7	3187.9
25°	3776.7	3782.0	3682.6	3548.6	3469.1	3441.2	3439.9	3438.6	3446.5	3384.2	3295.3
27.5°	3888.1	3886.8	3801.9	3675.9	3552.6	3494.3	3492.9	3506.2	3531.4	3479.7	3406.7
30°	4051.2	4036.6	3935.8	3804.6	3691.8	3601.7	3593.7	3581.8	3601.7	3560.6	3518.1
32.5°	4397.3	4350.9	4187.8	3954.4	3807.2	3738.3	3727.6	3653.4	3661.3	3636.1	3614.9
35°	4893.3	4832.3	4614.8	4238.2	3950.4	3852.3	3847.0	3752.8	3736.9	3714.4	3722.3
37.5°	5483.4	5407.8	5154.5	4649.3	4197.1	3984.9	3976.9	3892.1	3827.1	3803.2	3848.3
40°	6076.2	5980.7	5771.2	5150.5	4560.4	4206.4	4181.2	4052.5	3978.3	3938.5	4034.0
42.5°	6651.7	6572.1	6393.1	5712.8	5008.6	4529.9	4474.2	4254.1	4198.4	4161.3	4333.7
45°	7160.9	7089.3	6958.0	6313.5	5533.8	4970.2	4915.8	4556.5	4539.2	4539.2	4788.5
47.5°	7574.6	7558.7	7419.5	6926.2	6153.1	5471.5	5377.3	4976.8	5023.2	5094.8	5434.3
50°	8033.5	7989.7	7841.2	7529.5	6881.1	6045.7	5968.7	5492.7	5666.4	5862.7	6367.9
52.5°	8455.2	8479.0	8313.3	8158.1	7703.3	6686.2	6550.9	6101.3	6476.6	6801.5	7461.9
55°	8888.8	8890.1	8843.7	8822.5	8565.2	7394.3	7245.8	6833.4	7430.1	7833.2	8737.6
57.5°	9295.9	9298.6	9367.5	9554.5	9565.1	8211.2	8042.7	7732.4	8489.6	8900.7	10053.1
60°	9659.3	9677.8	9866.1	10303.7	10444.3	9147.4	8988.3	8794.6	9585.0	9998.7	11436.2
62.5°	9781.3	9848.9	10267.9	10889.9	11312.9	10295.8	10139.3	10023.9	10736.0	11120.6	12592.6
65°	9574.4	9729.5	10539.8	11373.9	12206.7	11660.3	11505.2	11379.2	11932.2	12294.2	13542.0
67.5°	9066.5	9266.7	10523.9	11881.8	13291.4	13302.0	13157.5	12861.8	13214.5	13353.7	13851.0
70°	7728.5	8028.2	9596.9	12071.4	14536.6	15547.1	15407.9	14646.7	14494.2	13820.5	12981.1
72.5°	4979.5	5382.6	7066.7	10510.6	14813.8	17659.6	17651.6	16257.9	14898.6	12913.5	10411.1
75°	1816.7	2063.4	3283.4	6597.3	12434.8	17552.2	17603.9	15982.1	13600.4	9974.9	6485.9
77.5°	661.7	724.0	1071.5	2535.5	7647.6	14083.1	14190.5	12776.9	9680.5	5006.0	2570.0
80°	347.4	381.9	549.0	984.0	3276.8	8363.7	8532.1	7593.2	4549.8	1507.8	770.5
82.5°	192.3	208.2	307.7	534.4	1475.9	3576.5	3677.3	2999.6	1600.6	639.2	318.3
85°	103.4	110.1	144.5	291.7	721.4	1239.9	1267.7	896.4	637.9	375.3	153.8
87.5°	30.5	37.1	47.7	92.8	282.5	278.5	285.1	177.7	252.0	189.6	50.4
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°	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5	2539.5
2.5°	2551.4	2547.4	2532.8	2526.2	2518.2	2516.9	2523.6	2524.9	2526.2	2527.5	2532.8
5°	2575.3	2562.0	2548.7	2540.8	2543.4	2544.8	2558.0	2567.3	2573.9	2579.2	2581.9
7.5°	2621.7	2611.1	2588.5	2587.2	2591.2	2603.1	2620.4	2641.6	2653.5	2662.8	2665.4
10°	2690.6	2670.7	2644.2	2648.2	2656.2	2673.4	2709.2	2726.4	2746.3	2763.6	2759.6
12.5°	2760.9	2743.7	2713.2	2715.8	2729.1	2759.6	2794.1	2815.3	2828.6	2841.8	2847.1
15°	2852.4	2821.9	2788.8	2788.8	2812.6	2845.8	2861.7	2878.9	2886.9	2901.5	2906.8
17.5°	2946.6	2906.8	2863.0	2860.4	2889.6	2905.5	2914.7	2917.4	2920.1	2936.0	2941.3
20°	3040.7	2997.0	2934.6	2929.3	2936.0	2933.3	2932.0	2929.3	2933.3	2953.2	2961.2
22.5°	3133.6	3083.2	2997.0	2973.1	2954.5	2929.3	2928.0	2926.7	2929.3	2949.2	2962.5
25°	3242.3	3181.3	3065.9	2994.3	2932.0	2897.5	2901.5	2902.8	2905.5	2921.4	2942.6
27.5°	3360.3	3292.7	3129.6	2987.7	2875.0	2851.1	2844.5	2848.4	2857.7	2882.9	2908.1
30°	3478.3	3398.8	3187.9	2961.2	2803.4	2770.2	2749.0	2758.3	2787.4	2812.6	2840.5
32.5°	3585.8	3506.2	3234.3	2902.8	2711.9	2660.1	2632.3	2644.2	2673.4	2682.7	2715.8
35°	3711.7	3621.6	3254.2	2810.0	2612.4	2532.8	2495.7	2478.5	2493.1	2483.8	2512.9
37.5°	3852.3	3758.1	3251.6	2688.0	2495.7	2404.2	2352.5	2287.5	2257.0	2225.2	2245.1
40°	4060.5	3925.2	3219.8	2540.8	2351.2	2267.6	2174.8	2064.7	1995.8	1933.4	1937.4
42.5°	4344.3	4157.3	3161.4	2379.0	2188.1	2109.8	1983.8	1855.2	1746.5	1643.0	1633.7
45°	4767.3	4461.0	3088.5	2206.6	2011.7	1934.8	1798.2	1653.6	1530.3	1397.7	1381.8
47.5°	5377.3	4869.4	3019.5	2010.4	1826.0	1755.7	1632.4	1498.5	1352.6	1224.0	1209.4
50°	6215.4	5455.5	2955.9	1819.4	1643.0	1590.0	1491.9	1355.3	1208.1	1104.6	1098.0
52.5°	7281.6	6252.5	2929.3	1635.1	1472.0	1452.1	1373.8	1246.5	1107.3	1019.8	1013.1
55°	8505.6	7206.0	2929.3	1458.7	1322.1	1328.7	1274.4	1156.4	1035.7	957.4	949.5
57.5°	9754.7	8171.4	2876.3	1295.6	1194.8	1222.7	1188.2	1084.7	976.0	895.1	881.9
60°	10905.8	8980.3	2661.5	1147.1	1082.1	1125.9	1103.3	1014.5	881.9	814.2	803.6
62.5°	11790.3	9436.5	2247.7	1029.0	989.3	1039.7	1027.7	921.6	864.6	836.8	827.5
65°	12233.2	9362.2	1718.6	924.3	911.0	989.3	964.1	960.1	915.0	883.2	872.6
67.5°	11961.3	8723.0	1246.5	847.4	865.9	942.9	1039.7	1055.6	972.0	909.7	899.1
70°	10769.2	7566.7	928.3	774.4	808.9	944.2	1185.5	1104.6	953.5	880.5	868.6
72.5°	8192.6	5642.5	720.1	697.5	734.7	950.8	1250.5	1082.1	900.4	973.4	965.4
75°	4685.1	3097.8	578.2	603.4	641.8	888.5	1217.4	1023.7	859.3	893.8	893.8
77.5°	1786.2	1190.8	477.4	510.5	515.8	775.8	1164.3	1019.8	818.2	798.3	728.0
80°	619.3	465.5	395.2	405.8	399.2	689.6	1116.6	887.2	669.7	599.4	579.5
82.5°	253.3	232.1	313.0	299.7	283.8	535.7	901.7	725.4	547.7	484.0	478.7
85°	110.1	147.2	206.9	181.7	164.4	371.3	722.7	614.0	462.8	399.2	397.8
87.5°	22.5	55.7	87.5	82.2	84.9	248.0	513.2	436.3	327.5	245.3	192.3
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)