

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: P940598

Luminaire Tested: **GALN-SB3D-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940598
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-SB3D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA 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: 21442 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - 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



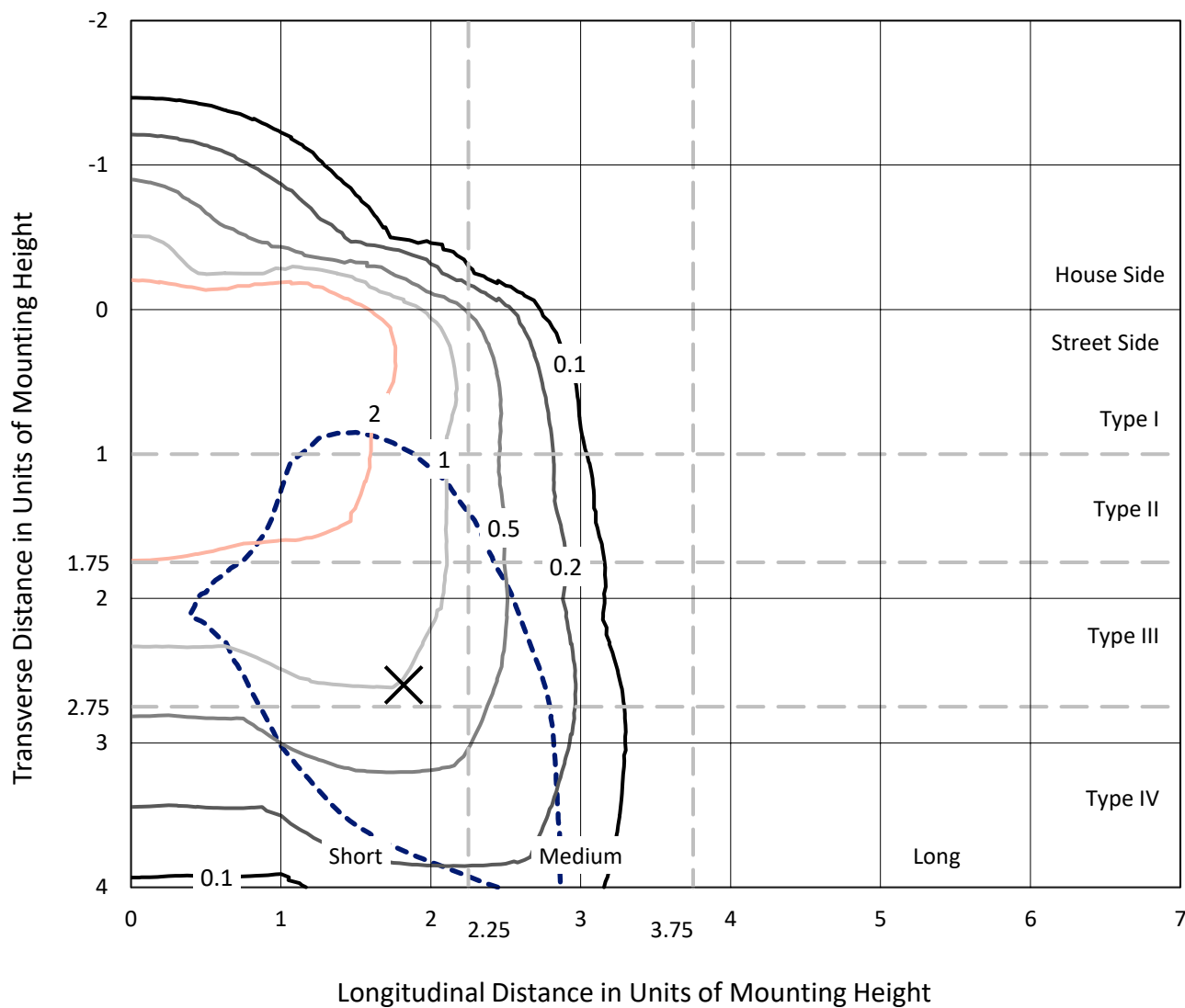
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

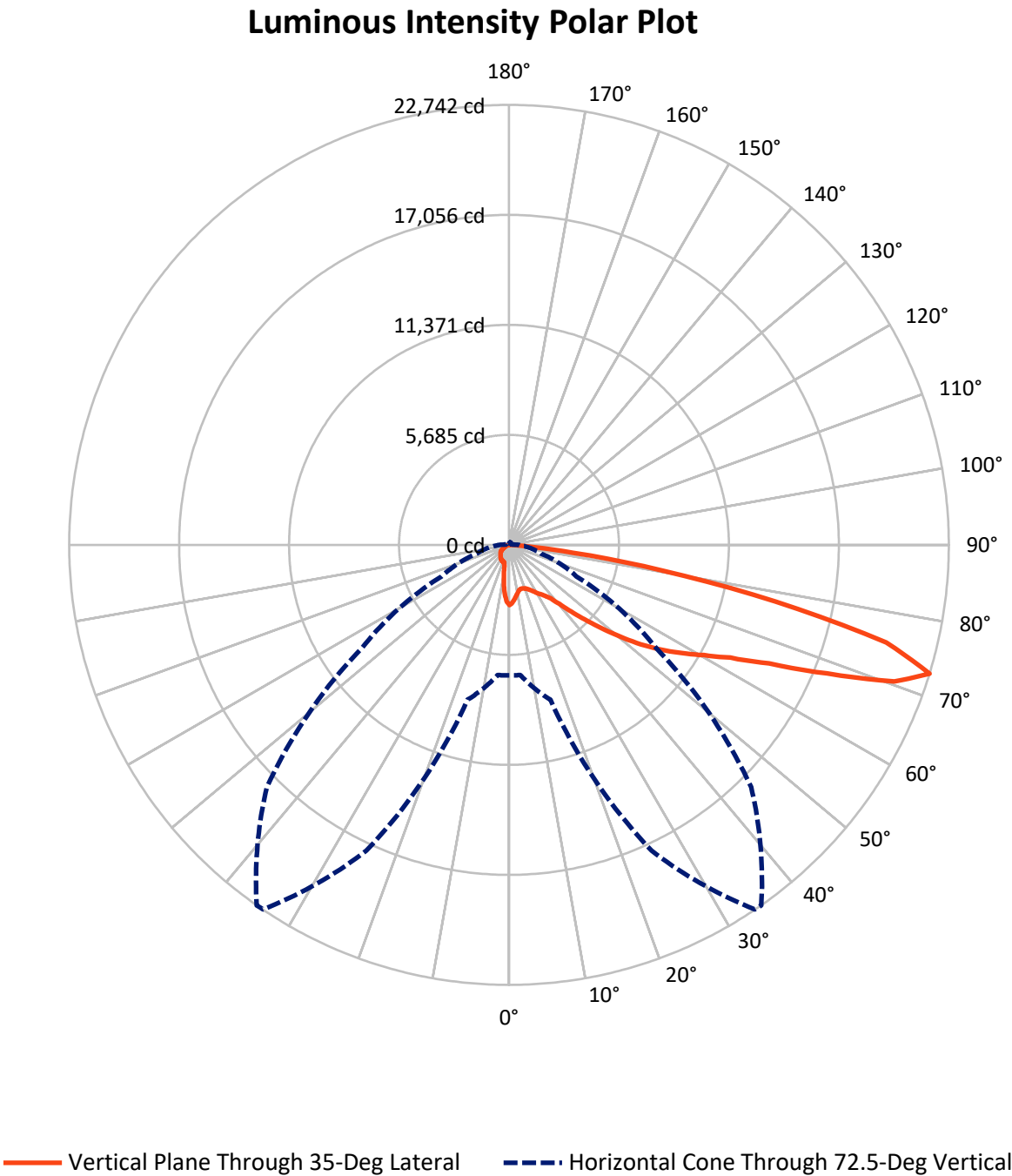
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc

Type IV - Short - N/A

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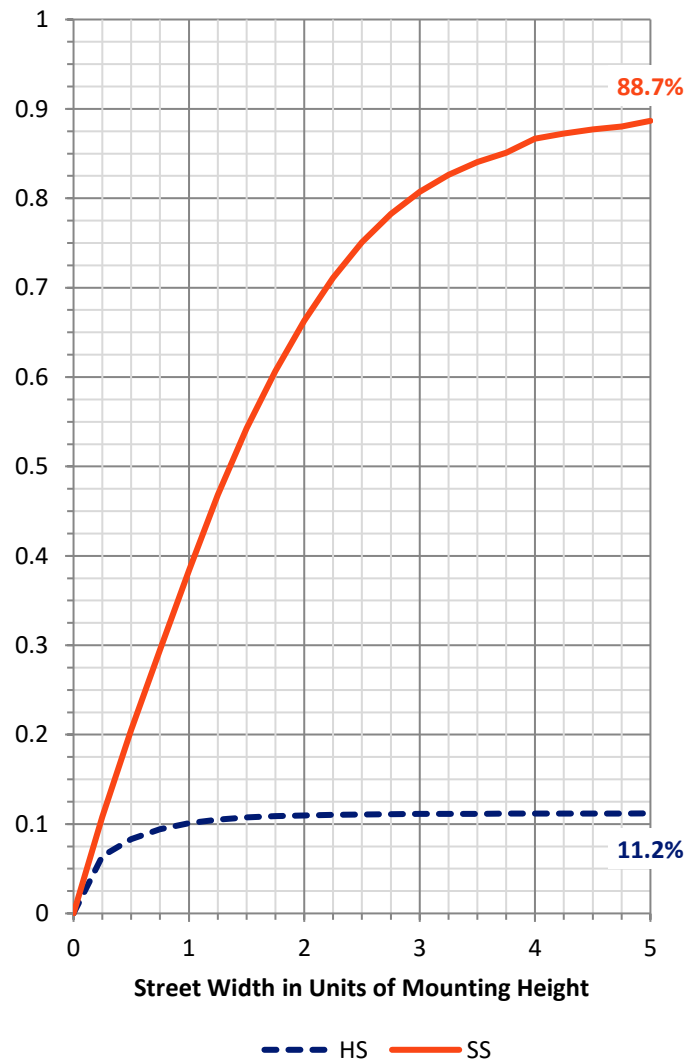
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2413.2	0.0	2413.2
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	19028.8	0.0	19028.8
	% Fixture	88.7	0.0	88.7
Total	Lumens	21442.0	0.0	21442.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.4	1.2
10°-20°	597.4	2.8
20°-30°	970.5	4.5
30°-40°	1619.2	7.6
40°-50°	3063.6	14.3
50°-60°	4868.0	22.7
60°-70°	6022.1	28.1
70°-80°	3743.4	17.5
80°-90°	302.5	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°	21442.0	100.0
0°-180°	21442.0	100.0

Coefficient of Utilization



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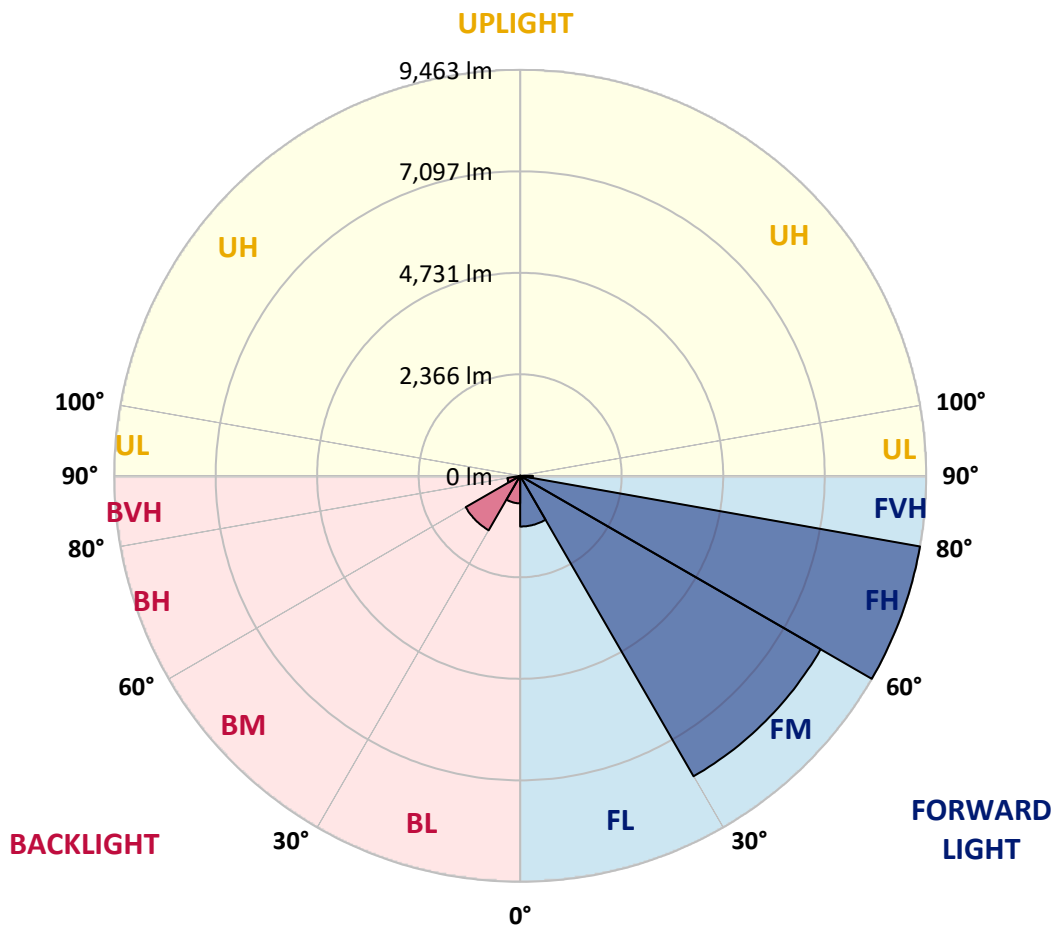
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.0	5.5			
FM	(30°-60°)	8085.8	37.7			
FH	(60°-80°)	9462.6	44.1			G4/12000
FVH	(80°-90°)	298.4	1.4			G3/500
BL	(0°-30°)	641.2	3.0	B2/1000		
BM	(30°-60°)	1465.0	6.8	B2/2500		
BH	(60°-80°)	302.8	1.4	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7
2.5°	2969.4	2994.5	2999.3	3007.1	3007.1	3016.5	3032.3	3054.2	3090.4	3109.2	3121.8
5°	2736.9	2755.7	2779.3	2798.2	2834.3	2839.0	2900.3	2960.0	3043.2	3106.1	3150.1
7.5°	2502.8	2524.8	2556.2	2601.8	2648.9	2663.0	2755.7	2856.3	2988.3	3106.1	3179.9
10°	2337.8	2339.4	2367.7	2413.2	2488.6	2505.9	2619.0	2762.0	2927.0	3087.2	3208.2
12.5°	2245.1	2256.1	2268.7	2303.3	2375.5	2386.5	2507.5	2675.6	2865.7	3076.2	3241.2
15°	2245.1	2253.0	2260.8	2278.1	2336.2	2345.7	2452.5	2620.6	2834.3	3081.0	3294.6
17.5°	2268.7	2281.3	2275.0	2295.4	2356.7	2363.0	2457.2	2604.9	2832.7	3110.8	3376.3
20°	2325.2	2334.7	2322.1	2334.7	2395.9	2408.5	2505.9	2634.8	2859.4	3162.7	3478.4
22.5°	2414.8	2419.5	2389.7	2399.1	2461.9	2477.6	2590.8	2719.6	2923.8	3245.9	3615.1
25°	2527.9	2537.4	2491.8	2502.8	2562.5	2581.3	2711.7	2846.9	3026.0	3360.6	3789.5
27.5°	2658.3	2663.0	2623.8	2622.2	2699.2	2725.9	2857.9	3004.0	3162.7	3505.2	4009.5
30°	2807.6	2821.7	2784.0	2777.7	2875.1	2897.1	3027.5	3197.2	3363.8	3722.0	4322.1
32.5°	2925.4	2936.4	2914.4	2930.1	3029.1	3046.4	3233.4	3470.6	3679.6	4029.9	4747.9
35°	3095.1	3101.4	3051.1	3079.4	3192.5	3236.5	3514.6	3853.9	4077.0	4416.4	5304.1
37.5°	3709.4	3709.4	3495.7	3355.9	3464.3	3503.6	3899.5	4336.3	4567.2	4934.9	6004.8
40°	4559.4	4545.2	4232.6	3946.6	3932.5	4009.5	4447.8	4944.3	5200.4	5557.0	6793.5
42.5°	5465.9	5443.9	5018.1	4735.3	4688.2	4714.9	5081.0	5693.7	5954.5	6315.9	7641.9
45°	6270.3	6264.0	5874.4	5494.2	5409.3	5494.2	5871.3	6570.4	6757.4	7137.6	8488.7
47.5°	6944.3	6944.3	6660.0	6411.7	6367.7	6418.0	6941.2	7542.9	7525.6	8012.7	9313.6
50°	7720.5	7714.2	7443.9	7337.1	7382.7	7453.4	8172.9	8567.3	8320.6	8872.1	10050.4
52.5°	8264.1	8301.8	8209.1	8191.8	8424.3	8546.9	9423.5	9569.7	9032.3	9687.5	10601.9
55°	8694.5	8738.5	8845.4	8966.4	9414.1	9574.4	10634.9	10520.2	9627.8	10394.5	10919.2
57.5°	9304.1	9241.3	9406.3	9645.1	10369.4	10562.6	11808.5	11417.3	10107.0	10968.0	10953.8
60°	10044.1	10053.6	10081.8	10383.5	11323.0	11571.3	12964.8	12265.7	10414.9	11319.9	10570.5
62.5°	10933.4	10947.5	11005.7	11469.1	12603.5	12837.6	14196.6	12960.1	10556.3	11220.9	9580.7
65°	10872.1	10931.8	11580.7	13165.9	14550.1	14781.0	15634.2	13447.2	10342.6	10315.9	7800.6
67.5°	9904.3	10001.7	11087.4	15192.7	17484.9	17742.6	17371.8	13543.0	9420.4	8022.1	5088.8
70°	8634.8	8669.4	9975.0	17015.2	20883.3	21144.1	18927.2	12488.8	7148.6	4474.5	2279.7
72.5°	6743.2	6751.1	8282.9	17437.8	22727.7	22741.9	17706.5	9271.1	3844.5	1718.8	791.8
75°	4817.0	4769.9	5547.6	14141.6	19995.6	20155.8	13274.3	4348.8	1469.0	812.3	394.3
77.5°	2582.9	2634.8	3139.1	8386.6	13813.2	14086.6	7242.8	1253.7	747.9	553.0	260.8
80°	798.1	842.1	1286.7	3839.8	7824.2	7989.1	2685.0	557.7	521.6	394.3	171.3
82.5°	251.4	260.8	600.2	1613.5	3247.5	3322.9	777.7	315.8	356.6	260.8	100.6
85°	72.3	73.8	267.1	601.7	802.8	818.6	218.4	122.5	204.2	161.8	51.8
87.5°	7.9	25.1	100.6	100.6	70.7	69.1	23.6	26.7	58.1	20.4	9.4
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°	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7	3107.7
2.5°	3113.9	3115.5	3095.1	3060.5	3022.8	2991.4	2952.1	2920.7	2898.7	2892.4	2903.4
5°	3135.9	3124.9	3066.8	2961.6	2835.9	2727.5	2606.5	2510.6	2447.8	2421.1	2430.5
7.5°	3168.9	3137.5	3010.3	2802.9	2562.5	2348.8	2132.0	1963.9	1857.1	1803.6	1811.5
10°	3197.2	3134.4	2916.0	2573.5	2205.8	1882.2	1590.0	1387.3	1274.2	1220.8	1222.3
12.5°	3223.9	3132.8	2793.4	2301.7	1803.6	1407.7	1135.9	1035.4	1003.9	992.9	989.8
15°	3274.2	3137.5	2639.5	1990.6	1403.0	1063.6	964.7	963.1	969.4	966.2	964.7
17.5°	3343.3	3142.2	2465.1	1660.7	1082.5	938.0	933.2	947.4	956.8	952.1	950.5
20°	3432.9	3161.1	2279.7	1333.9	930.1	906.5	917.5	930.1	938.0	930.1	928.5
22.5°	3558.6	3194.1	2077.0	1071.5	881.4	887.7	897.1	911.2	919.1	908.1	906.5
25°	3712.5	3245.9	1877.5	931.7	857.8	865.7	879.8	895.5	905.0	894.0	892.4
27.5°	3912.1	3329.2	1693.7	900.2	834.3	839.0	859.4	883.0	895.5	881.4	881.4
30°	4201.2	3465.9	1535.0	914.4	820.1	809.1	837.4	870.4	884.5	872.0	870.4
32.5°	4584.5	3659.1	1437.6	936.4	813.8	774.6	801.3	843.7	867.3	859.4	859.4
35°	5087.3	3952.9	1399.9	961.5	809.1	738.4	757.3	802.8	843.7	851.5	851.5
37.5°	5696.9	4361.4	1410.9	972.5	795.0	708.6	718.0	757.3	810.7	835.8	842.1
40°	6389.7	4837.5	1473.7	961.5	779.3	683.4	685.0	714.9	762.0	799.7	812.3
42.5°	7104.6	5393.6	1590.0	920.7	765.1	661.4	656.7	677.2	708.6	735.3	746.3
45°	7784.9	5965.5	1704.7	864.1	747.9	639.4	628.4	636.3	642.6	653.6	659.9
47.5°	8378.8	6367.7	1671.7	812.3	724.3	614.3	595.5	592.3	573.5	571.9	570.3
50°	8788.8	6455.7	1484.7	760.4	689.7	586.0	556.2	537.3	504.3	488.6	490.2
52.5°	8919.2	6108.5	1212.9	708.6	633.2	548.3	505.9	476.0	435.2	421.1	419.5
55°	8746.4	5428.2	969.4	645.7	554.6	498.0	450.9	411.6	378.6	361.4	361.4
57.5°	8323.8	4562.5	766.7	571.9	471.3	441.5	394.3	355.1	326.8	309.5	306.4
60°	7623.0	3623.0	606.5	483.9	402.2	380.2	331.5	306.4	281.2	260.8	256.1
62.5°	6559.4	2586.1	476.0	383.4	336.2	311.1	282.8	263.9	234.1	205.8	201.1
65°	5118.7	1582.1	367.6	281.2	270.2	257.7	240.4	223.1	187.0	158.7	154.0
67.5°	3228.6	749.4	262.4	212.1	213.7	207.4	199.5	185.4	158.7	133.5	130.4
70°	1421.9	362.9	172.8	161.8	158.7	158.7	165.0	160.3	135.1	111.5	106.8
72.5°	483.9	194.8	128.8	122.5	114.7	113.1	138.3	133.5	108.4	86.4	81.7
75°	252.9	130.4	94.3	88.0	69.1	83.3	110.0	103.7	77.0	56.6	51.8
77.5°	165.0	92.7	64.4	56.6	39.3	55.0	81.7	72.3	45.6	28.3	25.1
80°	103.7	61.3	37.7	26.7	18.9	29.9	44.0	31.4	17.3	6.3	4.7
82.5°	55.0	31.4	14.1	9.4	7.9	9.4	11.0	7.9	3.1	0.0	0.0
85°	22.0	11.0	4.7	3.1	1.6	0.0	3.1	1.6	0.0	0.0	0.0
87.5°	7.9	1.6	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)