

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: P453155

Luminaire Tested: **GALN-SA4A-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453155
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4A-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14350 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 121
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



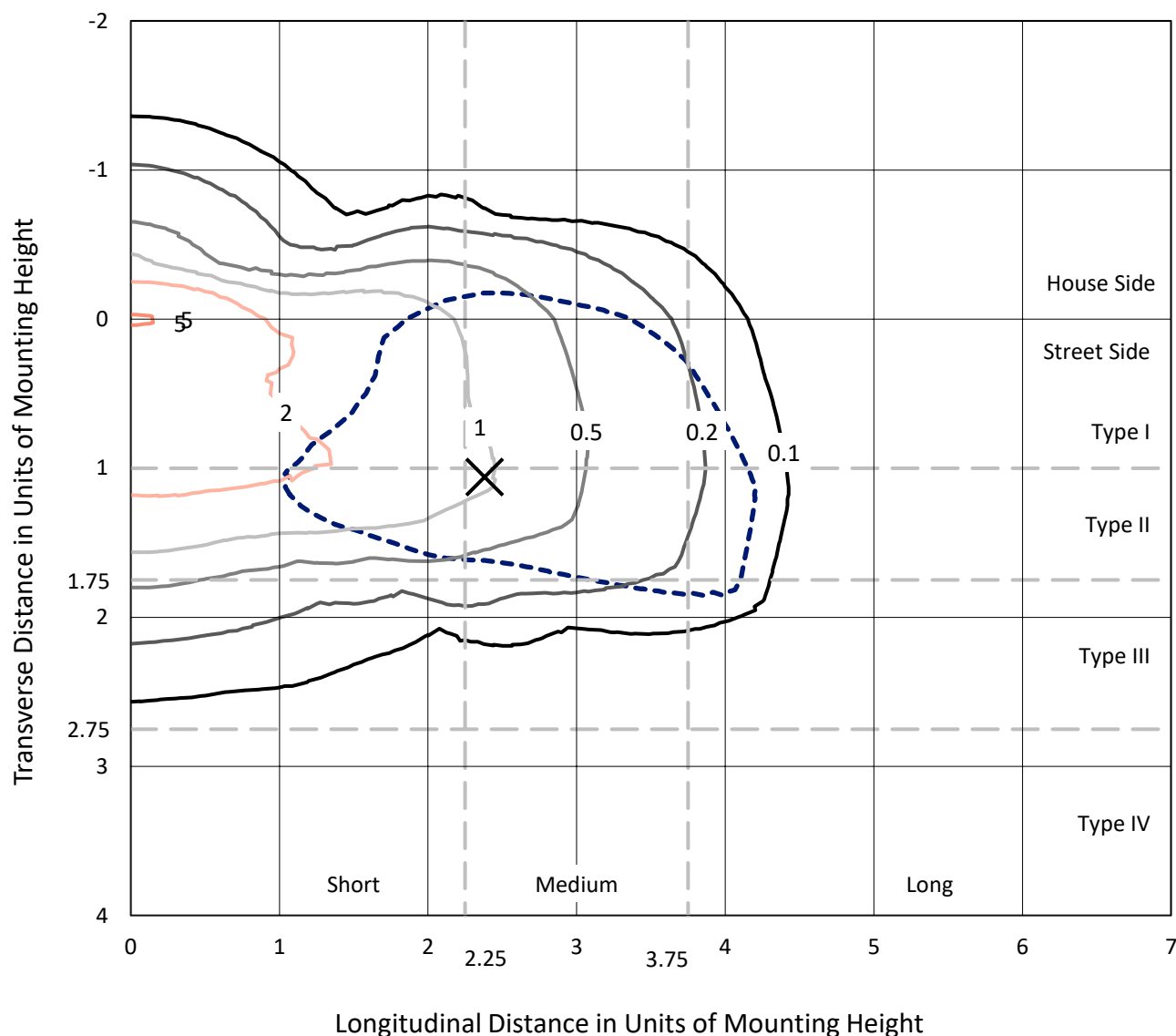
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

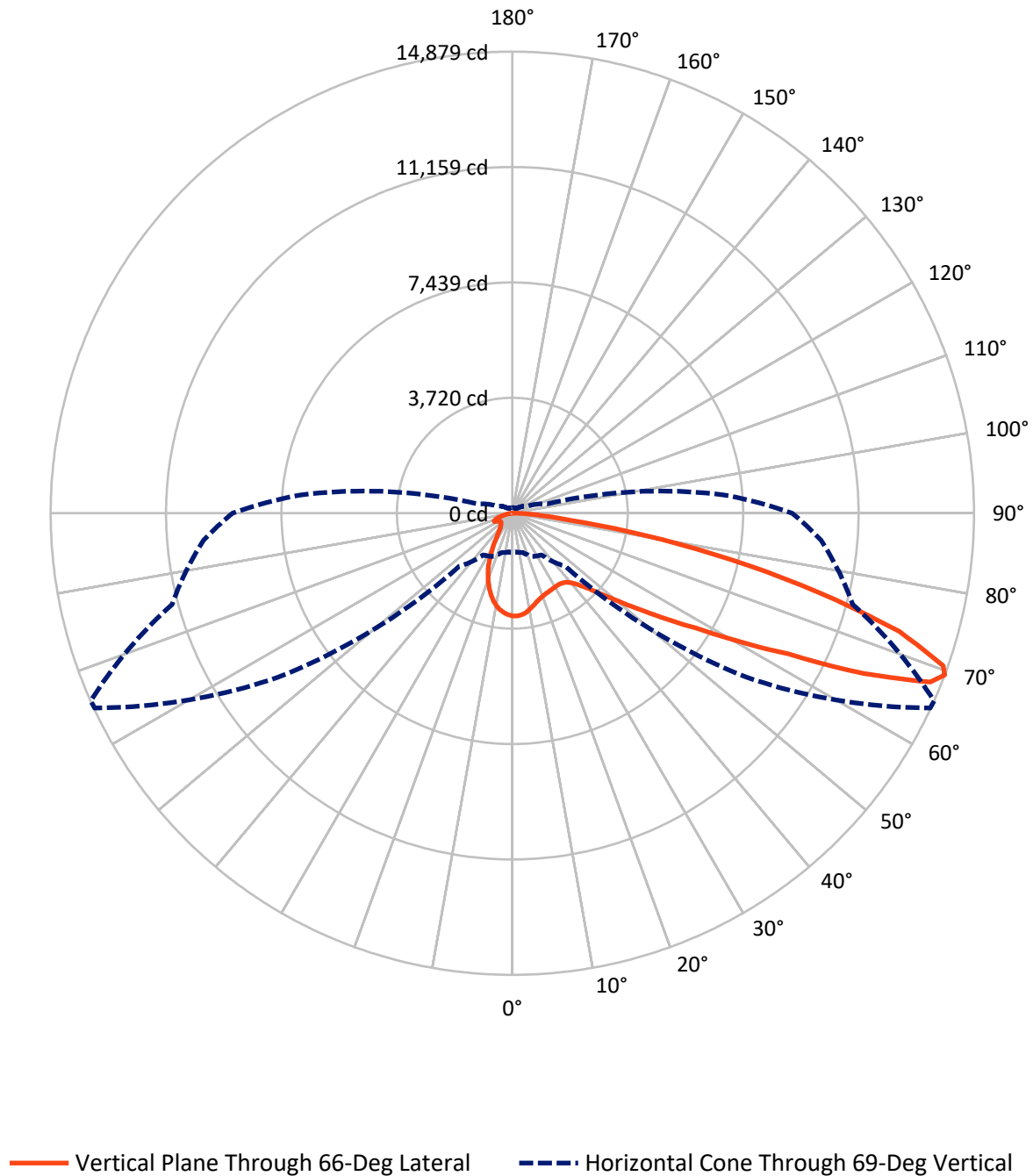


Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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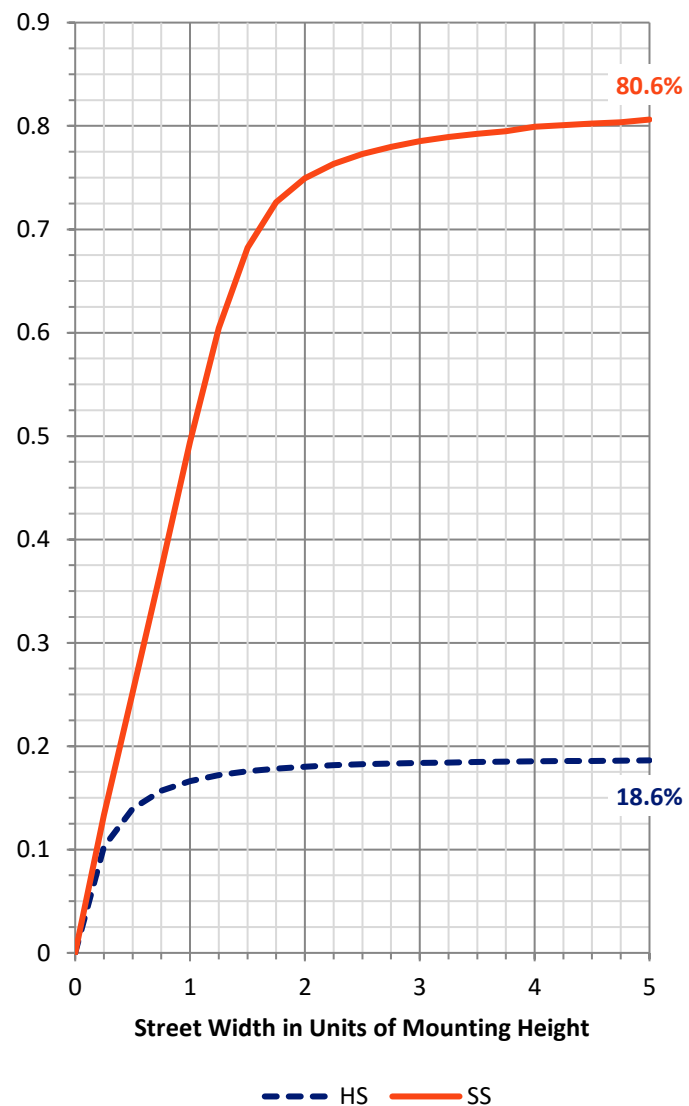
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2698.7	0.0	2698.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	11651.3	0.0	11651.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	14350.0	0.0	14350.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.8	2.0
10°-20°	682.6	4.8
20°-30°	929.2	6.5
30°-40°	1248.7	8.7
40°-50°	1864.5	13.0
50°-60°	2965.8	20.7
60°-70°	3647.7	25.4
70°-80°	2373.4	16.5
80°-90°	350.5	2.4
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°	14350.0	100.0
0°-180°	14350.0	100.0

Coefficient of Utilization



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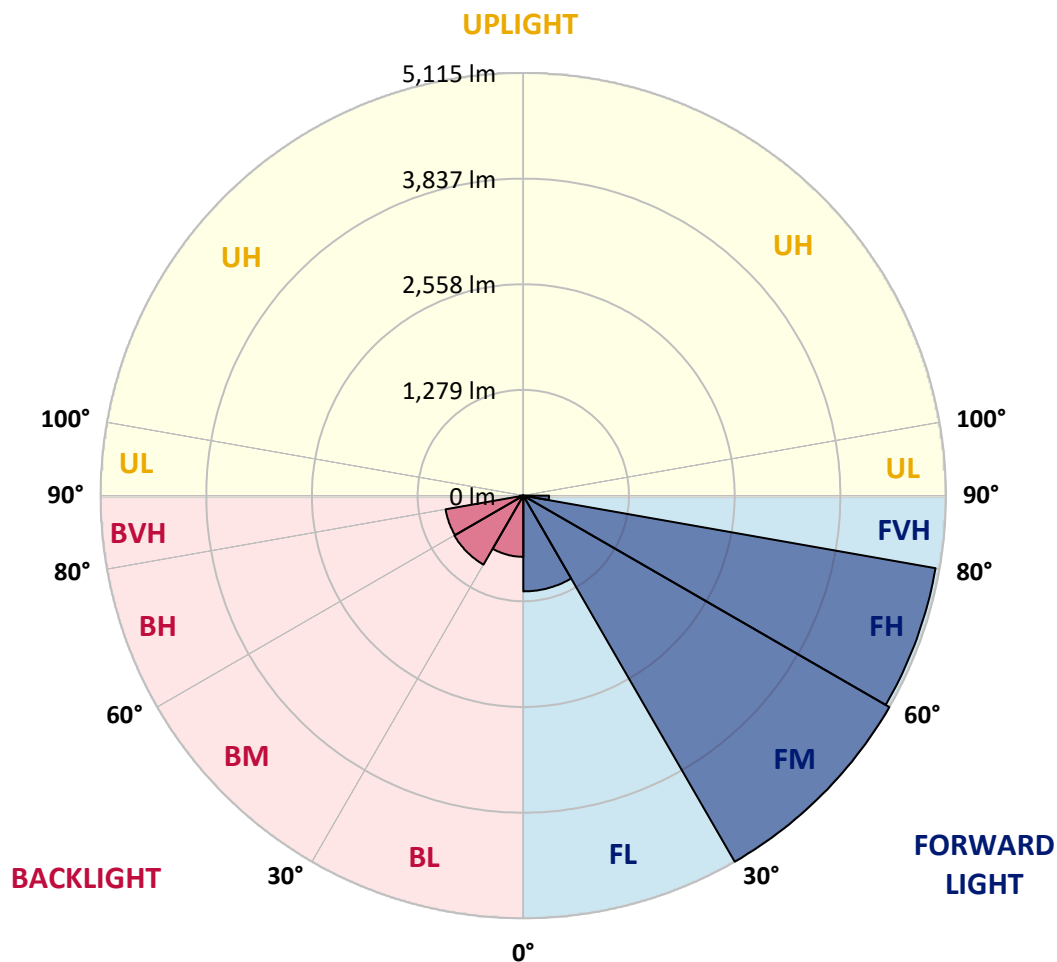
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1158.7	8.1			
FM	(30°-60°)	5115.3	35.6			
FH	(60°-80°)	5065.6	35.3			G3/7500
FVH	(80°-90°)	311.6	2.2			G3/500
BL	(0°-30°)	740.8	5.2	B2/1000		
BM	(30°-60°)	963.6	6.7	B1/1000		
BH	(60°-80°)	955.5	6.7	B2/1000		G2/1000
BVH	(80°-90°)	38.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8
2.5°	3197.8	3210.5	3224.8	3240.7	3270.9	3287.6	3299.5	3313.0	3314.6	3321.8	3316.2
5°	2961.8	2976.9	2998.3	3028.5	3073.8	3144.5	3217.7	3277.3	3284.4	3317.8	3327.3
7.5°	2764.7	2773.4	2790.9	2839.4	2903.8	2982.4	3088.9	3209.7	3227.2	3306.7	3334.5
10°	2604.2	2612.9	2633.6	2683.6	2747.2	2845.7	2962.6	3121.5	3135.8	3272.5	3336.1
12.5°	2484.2	2492.1	2514.4	2563.6	2636.7	2728.9	2857.7	3026.1	3046.8	3227.2	3321.0
15°	2392.8	2407.9	2426.2	2466.7	2543.8	2632.8	2757.5	2938.7	2955.4	3179.5	3310.6
17.5°	2353.8	2361.0	2373.7	2411.1	2467.5	2554.9	2680.5	2870.4	2890.2	3146.1	3308.3
20°	2355.4	2362.6	2365.0	2385.6	2426.2	2501.7	2625.6	2816.3	2840.2	3116.7	3312.2
22.5°	2409.5	2410.3	2401.5	2394.4	2410.3	2473.0	2586.7	2775.8	2803.6	3104.0	3315.4
25°	2492.9	2507.2	2494.5	2461.1	2431.7	2461.9	2571.6	2753.6	2779.8	3085.7	3311.4
27.5°	2628.0	2630.4	2620.1	2574.8	2498.5	2476.2	2565.2	2736.9	2759.1	3072.2	3291.6
30°	2809.2	2802.0	2792.5	2742.4	2622.4	2531.1	2578.7	2721.8	2744.8	3052.4	3267.7
32.5°	2992.8	3015.0	3006.3	2947.5	2791.7	2637.5	2622.4	2720.2	2739.3	3037.3	3241.5
35°	3187.5	3197.8	3239.1	3208.9	3049.2	2810.0	2704.3	2744.8	2759.9	3038.1	3223.2
37.5°	3340.0	3367.9	3464.8	3491.0	3340.8	3038.1	2837.0	2814.8	2821.1	3077.0	3230.4
40°	3524.4	3572.1	3696.8	3804.1	3705.6	3334.5	3062.7	2944.3	2952.2	3170.8	3277.3
42.5°	3758.0	3791.4	3959.1	4104.5	4088.6	3726.3	3336.1	3156.5	3160.4	3357.5	3408.4
45°	4031.4	4079.1	4267.4	4486.0	4523.3	4169.7	3731.0	3477.5	3475.1	3647.6	3653.1
47.5°	4381.1	4410.5	4597.2	4835.6	4986.6	4726.8	4210.2	3938.4	3913.0	4070.3	4025.1
50°	4702.9	4749.0	4890.5	5151.1	5527.0	5379.2	4840.4	4536.0	4476.4	4623.4	4547.2
52.5°	4838.0	4886.5	5005.7	5329.1	5990.3	6223.1	5640.6	5248.9	5149.5	5262.4	5234.6
55°	4603.6	4666.4	4777.6	5171.0	6193.7	7196.6	6719.8	6072.9	6000.6	5952.1	5960.1
57.5°	3973.4	4033.0	4183.2	4617.1	5950.6	7903.1	8260.7	7132.2	6977.3	6754.0	6792.1
60°	3024.6	3061.9	3139.8	3620.6	5229.8	8086.7	10010.6	8471.3	8372.7	7552.6	7579.7
62.5°	2148.0	2190.1	2244.2	2484.2	3828.8	7569.3	11380.6	10341.2	9989.1	8379.9	8353.7
65°	1744.3	1715.7	1780.9	1892.9	2246.6	5866.3	11688.9	12936.6	12451.8	9469.4	9105.4
67.5°	1434.4	1404.2	1468.6	1668.0	1708.6	3405.2	10578.0	14621.3	14524.4	10654.3	9869.1
69°	1269.9	1254.0	1310.4	1537.7	1640.2	2418.2	9215.1	14855.7	14878.8	11352.8	9986.7
70°	1144.3	1150.7	1205.5	1471.7	1609.2	1993.9	7876.1	14532.3	14727.8	11701.7	9859.6
72.5°	842.4	855.9	932.2	1219.0	1579.8	1691.9	4687.0	12693.4	13039.1	11722.3	9019.6
75°	588.9	582.5	650.0	917.9	1492.4	1676.8	2752.8	9816.7	10208.5	10132.2	7578.9
77.5°	385.4	395.8	449.8	648.5	1255.6	1664.1	1794.4	6964.6	7218.9	6776.2	4482.8
80°	271.8	271.0	301.2	442.6	931.4	1598.9	1469.4	4389.8	4325.4	2663.0	1329.5
82.5°	155.8	166.9	201.8	311.5	623.0	1407.4	1351.7	2099.5	1916.8	758.9	449.0
85°	86.6	90.6	120.0	188.3	364.0	1060.1	1180.1	955.2	901.2	317.1	193.1
87.5°	27.8	30.2	50.1	95.4	165.3	500.6	668.3	441.0	406.9	114.4	77.9
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°	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8	3313.8
2.5°	3318.6	3328.1	3302.7	3278.1	3255.8	3224.8	3197.0	3174.0	3158.1	3155.7	3147.7
5°	3329.7	3330.5	3282.0	3216.9	3153.3	3083.4	3011.0	2959.4	2910.9	2883.9	2870.4
7.5°	3337.7	3330.5	3243.1	3137.4	3015.0	2887.9	2760.7	2659.0	2580.3	2549.3	2561.3
10°	3334.5	3312.2	3184.3	3015.0	2837.0	2647.1	2464.3	2321.3	2190.1	2122.6	2124.2
12.5°	3317.0	3280.4	3096.9	2877.5	2616.1	2361.8	2082.1	1889.0	1737.2	1647.4	1619.6
15°	3301.9	3238.3	2994.4	2690.8	2365.8	2002.6	1661.7	1423.3	1296.1	1225.4	1224.6
17.5°	3286.0	3197.8	2882.3	2492.9	2078.1	1610.8	1253.2	1071.2	1011.6	1018.8	1006.9
20°	3269.3	3150.1	2765.5	2272.8	1727.6	1201.6	938.5	864.6	881.3	913.9	918.6
22.5°	3250.2	3099.3	2639.9	2030.4	1358.9	904.3	761.3	750.2	793.1	843.9	851.1
25°	3220.8	3035.7	2481.8	1776.9	1048.2	728.7	666.7	674.7	716.8	759.7	764.5
27.5°	3179.5	2957.0	2322.1	1460.6	787.5	625.4	609.5	619.9	640.5	666.7	673.1
30°	3123.9	2868.0	2138.5	1187.3	631.0	573.8	567.4	573.0	584.9	596.0	599.2
32.5°	3068.3	2782.2	1953.3	909.1	562.6	539.6	533.2	533.2	533.2	534.8	535.6
35°	3016.6	2701.1	1754.7	708.1	526.9	512.6	503.8	494.3	492.7	487.1	487.1
37.5°	2988.0	2627.2	1543.3	592.8	500.6	490.3	478.4	462.5	453.8	454.6	453.0
40°	2993.6	2578.7	1351.0	527.7	479.2	468.1	449.8	431.5	425.9	425.9	424.4
42.5°	3056.3	2562.8	1166.6	493.5	458.5	445.8	422.8	406.1	402.9	402.1	403.7
45°	3201.0	2601.8	1001.3	471.2	441.0	422.0	398.9	383.8	380.7	380.7	379.9
47.5°	3483.1	2728.1	882.9	456.9	428.3	403.7	379.9	364.8	359.2	357.6	357.6
50°	3921.7	3002.3	794.7	444.2	412.4	387.0	362.4	344.9	336.1	335.4	334.6
52.5°	4531.3	3429.8	760.5	434.7	395.0	369.5	342.5	325.8	314.7	312.3	310.7
55°	5244.1	4026.6	807.4	427.5	376.7	349.7	321.8	304.4	294.0	289.3	288.5
57.5°	6069.8	4743.4	985.4	418.0	360.0	328.2	301.2	283.7	272.6	267.0	265.4
60°	6811.2	5480.1	1296.1	412.4	345.7	305.2	277.3	261.4	251.1	245.6	244.8
62.5°	7625.7	6182.6	1667.2	427.5	339.3	282.9	255.1	240.8	232.0	226.5	226.5
65°	8495.9	6885.9	1912.8	478.4	348.9	265.4	231.3	219.3	211.4	207.4	206.6
67.5°	9082.4	7129.1	1575.8	530.8	372.7	246.4	208.2	198.7	193.9	189.9	189.9
69°	9018.8	6821.5	1162.6	544.4	379.9	236.8	195.5	188.3	182.0	180.4	178.8
70°	8817.8	6471.1	974.3	535.6	374.3	228.1	187.5	178.8	173.2	171.7	170.9
72.5°	7853.8	5612.0	725.5	465.7	318.7	197.9	166.1	158.1	153.4	151.0	151.0
75°	6525.1	4586.9	566.6	370.3	249.5	166.9	142.2	135.9	131.9	130.3	129.5
77.5°	3657.1	2561.3	406.9	290.1	189.1	135.1	119.2	113.6	109.7	108.1	108.1
80°	1018.8	731.9	239.2	191.5	128.7	102.5	94.6	90.6	85.0	81.1	83.4
82.5°	383.8	317.1	136.7	115.2	81.9	68.3	66.0	62.8	60.4	54.8	54.8
85°	186.7	154.2	87.4	61.2	45.3	35.8	34.2	32.6	31.0	27.0	27.8
87.5°	64.4	68.3	38.1	22.3	13.5	8.7	7.2	4.0	4.0	4.0	4.0
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)