

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: P452691

Luminaire Tested: **GALN-SA3C-830-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452691
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-SA3C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA 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: 16647 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 160
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

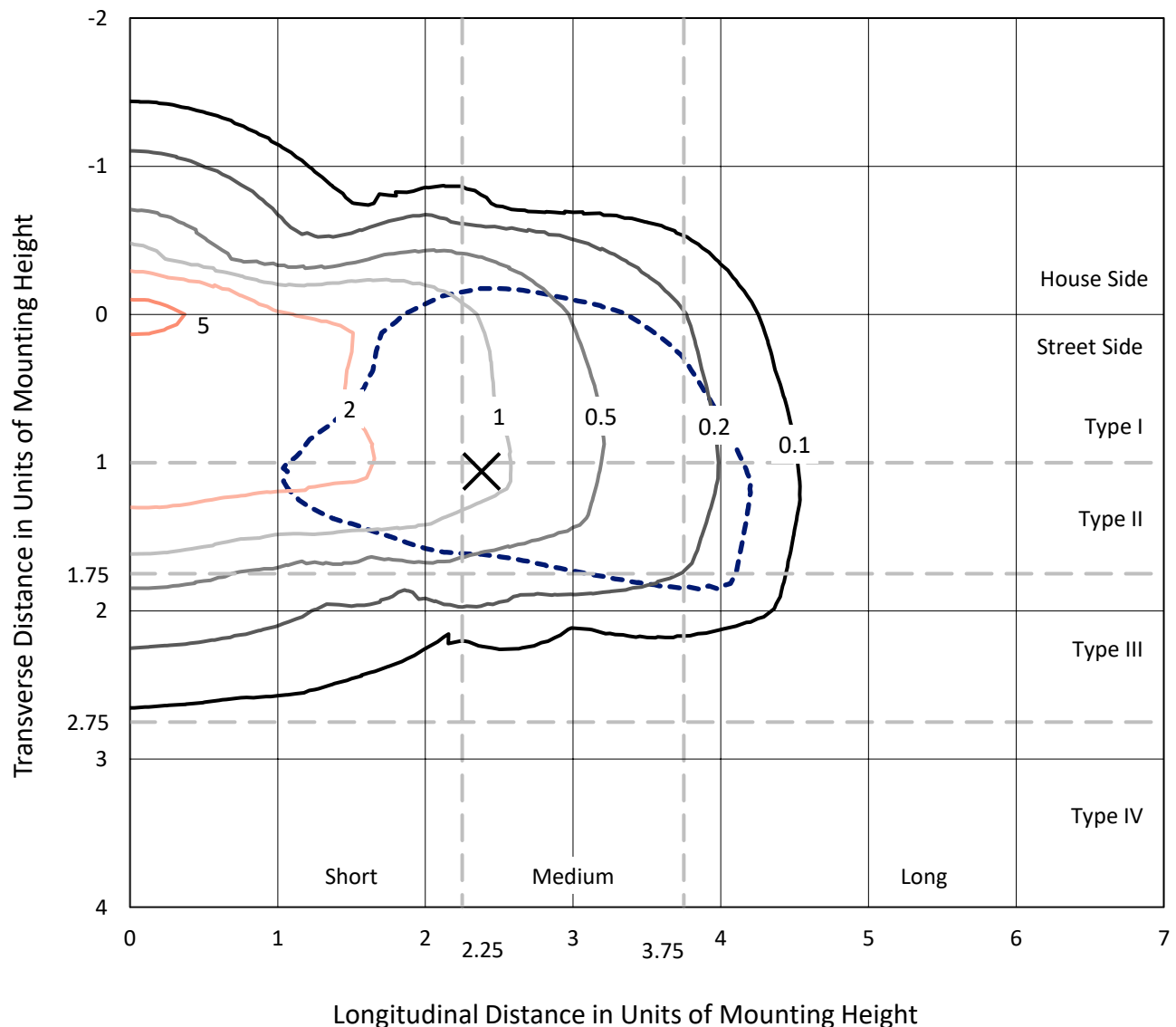


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

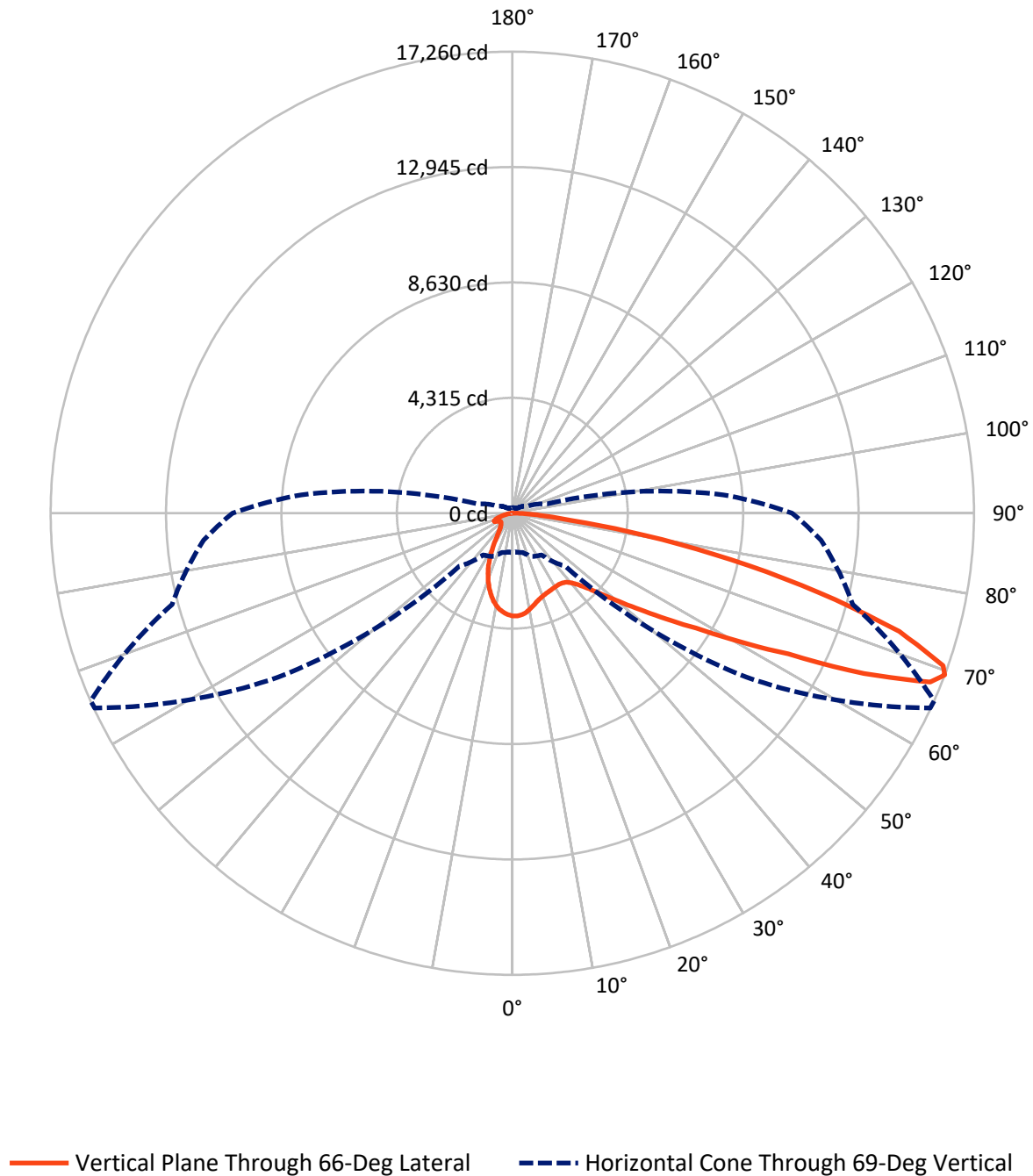


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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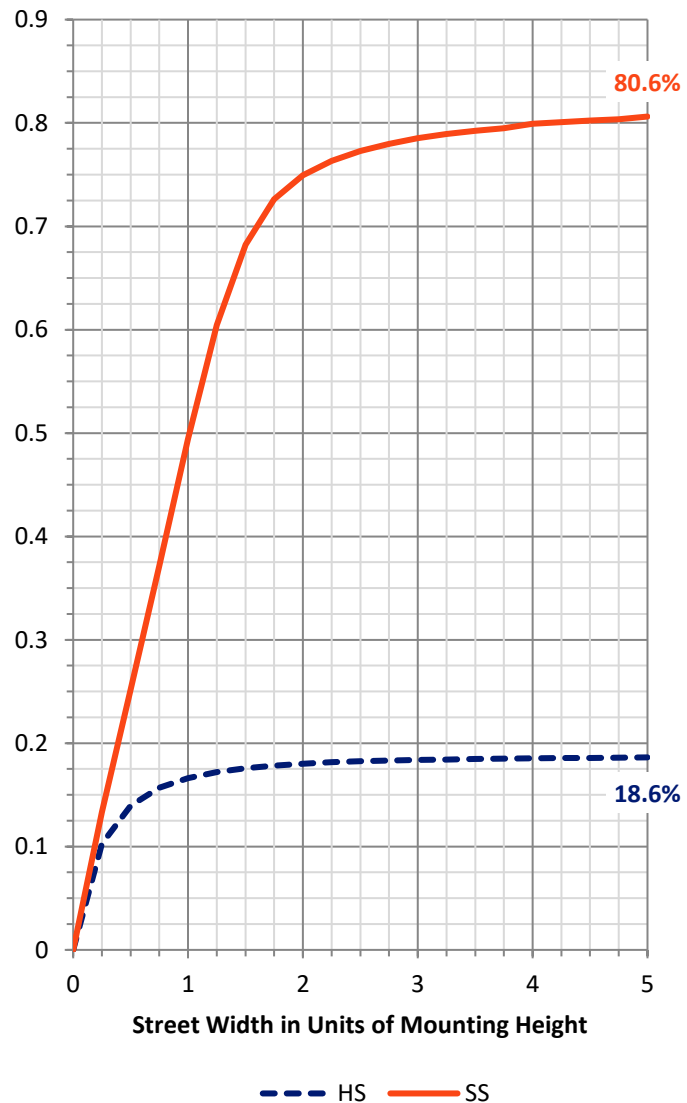
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3130.7	0.0	3130.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	13516.3	0.0	13516.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	16647.0	0.0	16647.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	2.0
10°-20°	791.8	4.8
20°-30°	1078.0	6.5
30°-40°	1448.5	8.7
40°-50°	2162.9	13.0
50°-60°	3440.5	20.7
60°-70°	4231.6	25.4
70°-80°	2753.3	16.5
80°-90°	406.6	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°	16647.0	100.0
0°-180°	16647.0	100.0

Coefficient of Utilization



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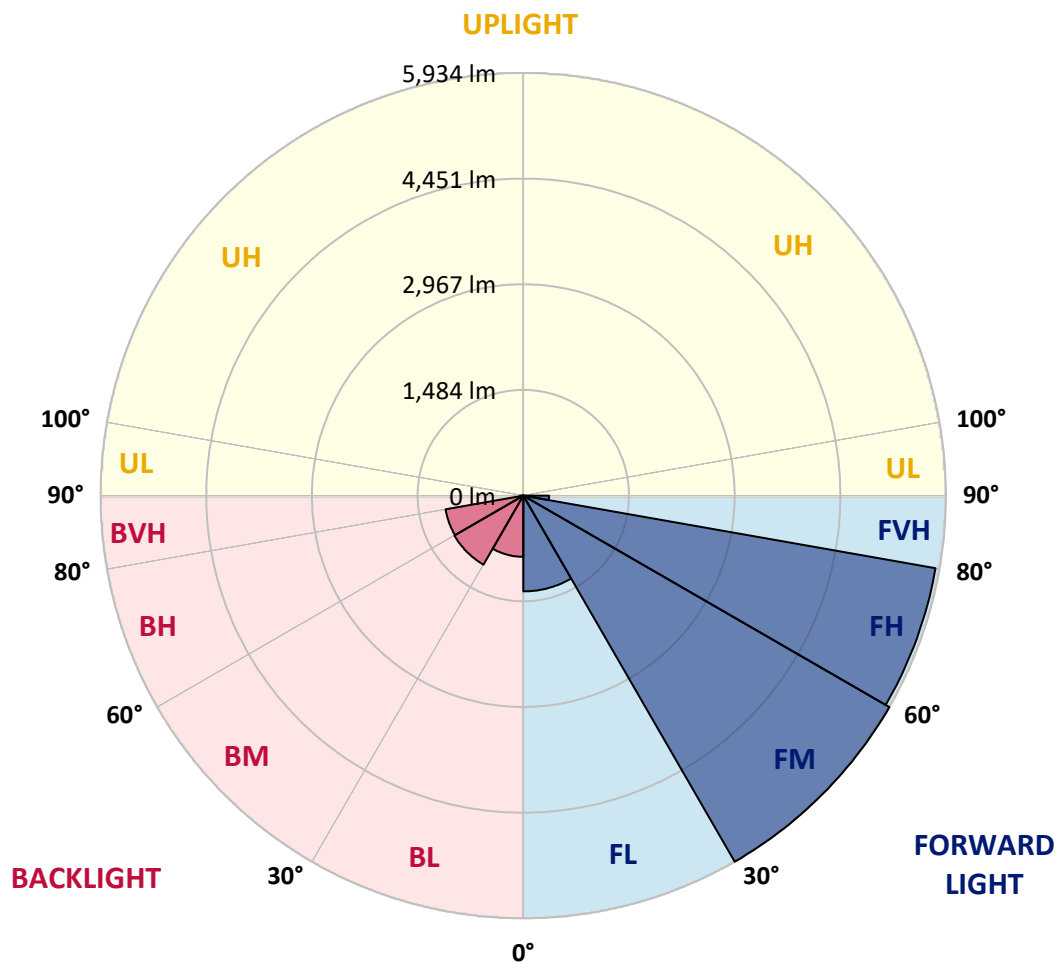
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1344.2	8.1			
FM	(30°-60°)	5934.2	35.6			
FH	(60°-80°)	5876.5	35.3			G3/7500
FVH	(80°-90°)	361.5	2.2			G3/500
BL	(0°-30°)	859.4	5.2	B2/1000		
BM	(30°-60°)	1117.8	6.7	B2/2500		
BH	(60°-80°)	1108.4	6.7	B3/2500		G3/2500
BVH	(80°-90°)	45.1	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3
2.5°	3709.7	3724.4	3741.0	3759.4	3794.5	3813.8	3827.7	3843.3	3845.2	3853.5	3847.0
5°	3435.9	3453.4	3478.3	3513.3	3565.8	3647.9	3732.7	3801.8	3810.1	3848.9	3859.9
7.5°	3207.2	3217.4	3237.7	3293.9	3368.6	3459.8	3583.4	3723.5	3743.8	3836.0	3868.2
10°	3021.0	3031.2	3055.1	3113.2	3187.0	3301.3	3436.8	3621.2	3637.8	3796.3	3870.1
12.5°	2881.8	2891.0	2916.8	2974.0	3058.8	3165.7	3315.1	3510.5	3534.5	3743.8	3852.6
15°	2775.8	2793.3	2814.5	2861.5	2950.9	3054.2	3198.9	3409.1	3428.5	3688.5	3840.6
17.5°	2730.6	2738.9	2753.7	2797.0	2862.4	2963.9	3109.5	3329.8	3352.9	3649.7	3837.8
20°	2732.5	2740.8	2743.5	2767.5	2814.5	2902.1	3045.9	3267.2	3294.8	3615.6	3842.4
22.5°	2795.2	2796.1	2785.9	2777.6	2796.1	2868.9	3000.7	3220.1	3252.4	3600.9	3846.1
25°	2891.9	2908.5	2893.8	2855.1	2821.0	2856.0	2983.2	3194.3	3224.7	3579.7	3841.5
27.5°	3048.7	3051.4	3039.5	2986.9	2898.4	2872.6	2975.8	3175.0	3200.8	3564.0	3818.4
30°	3258.9	3250.6	3239.5	3181.4	3042.2	2936.2	2991.5	3157.5	3184.2	3541.0	3790.8
32.5°	3471.8	3497.6	3487.5	3419.3	3238.6	3059.7	3042.2	3155.6	3177.7	3523.4	3760.4
35°	3697.7	3709.7	3757.6	3722.6	3537.3	3259.8	3137.2	3184.2	3201.7	3524.4	3739.2
37.5°	3874.7	3906.9	4019.4	4049.8	3875.6	3524.4	3291.1	3265.3	3272.7	3569.5	3747.5
40°	4088.6	4143.9	4288.6	4413.1	4298.7	3868.2	3552.9	3415.6	3424.8	3678.3	3801.8
42.5°	4359.6	4398.3	4592.8	4761.5	4743.1	4322.7	3870.1	3661.7	3666.3	3895.0	3954.0
45°	4676.7	4732.0	4950.5	5204.0	5247.4	4837.1	4328.2	4034.2	4031.4	4231.4	4237.9
47.5°	5082.3	5116.5	5333.1	5609.7	5784.8	5483.4	4884.1	4568.9	4539.4	4721.9	4669.3
50°	5455.7	5509.2	5673.3	5975.6	6411.7	6240.2	5615.2	5262.1	5193.0	5363.5	5275.0
52.5°	5612.4	5668.7	5806.9	6182.2	6949.2	7219.3	6543.5	6089.0	5973.8	6104.7	6072.4
55°	5340.5	5413.3	5542.4	5998.7	7185.2	8348.6	7795.4	7045.0	6961.1	6904.9	6914.1
57.5°	4609.4	4678.6	4852.8	5356.1	6903.1	9168.1	9583.0	8273.9	8094.1	7835.1	7879.3
60°	3508.7	3552.0	3642.4	4200.1	6066.9	9381.1	11613.0	9827.3	9713.0	8761.6	8792.9
62.5°	2491.9	2540.7	2603.4	2881.8	4441.6	8780.9	13202.3	11996.5	11588.1	9721.3	9690.8
65°	2023.5	1990.3	2065.9	2195.9	2606.2	6805.3	13560.0	15007.3	14445.0	10985.2	10562.9
67.5°	1664.0	1629.0	1703.6	1935.0	1982.0	3950.3	12271.2	16961.7	16849.3	12359.7	11448.9
69°	1473.2	1454.7	1520.2	1783.8	1902.8	2805.3	10690.2	17233.7	17260.4	13170.0	11585.3
70°	1327.5	1334.9	1398.5	1707.3	1866.8	2313.0	9136.8	16858.5	17085.3	13574.7	11437.8
72.5°	977.2	992.9	1081.4	1414.2	1832.7	1962.7	5437.3	14725.2	15126.3	13598.7	10463.4
75°	683.1	675.7	754.1	1064.8	1731.3	1945.2	3193.4	11388.0	11842.5	11754.0	8792.0
77.5°	447.1	459.1	521.8	752.3	1456.6	1930.4	2081.6	8079.4	8374.4	7860.9	5200.3
80°	315.3	314.4	349.4	513.5	1080.4	1854.8	1704.6	5092.5	5017.8	3089.2	1542.3
82.5°	180.7	193.6	234.2	361.4	722.8	1632.7	1568.1	2435.6	2223.6	880.4	520.9
85°	100.5	105.1	139.2	218.5	422.2	1229.8	1369.0	1108.1	1045.4	367.8	224.0
87.5°	32.3	35.0	58.1	110.6	191.8	580.8	775.3	511.6	472.0	132.8	90.3
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°	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3	3844.3
2.5°	3849.8	3860.8	3831.3	3802.8	3777.0	3741.0	3708.7	3682.0	3663.6	3660.8	3651.6
5°	3862.7	3863.6	3807.4	3731.8	3658.0	3576.9	3493.0	3433.1	3376.9	3345.5	3329.8
7.5°	3871.9	3863.6	3762.2	3639.6	3497.6	3350.1	3202.6	3084.6	2993.4	2957.4	2971.2
10°	3868.2	3842.4	3694.0	3497.6	3291.1	3070.8	2858.8	2692.8	2540.7	2462.4	2464.2
12.5°	3847.9	3805.5	3592.6	3338.1	3034.8	2739.8	2415.3	2191.3	2015.2	1911.1	1878.8
15°	3830.4	3756.7	3473.7	3121.5	2744.4	2323.1	1927.7	1651.1	1503.6	1421.5	1420.6
17.5°	3812.0	3709.7	3343.7	2891.9	2410.7	1868.7	1453.8	1242.7	1173.6	1181.9	1168.0
20°	3792.6	3654.3	3208.2	2636.6	2004.2	1393.9	1088.7	1003.0	1022.4	1060.2	1065.7
22.5°	3770.5	3595.3	3062.5	2355.4	1576.4	1049.1	883.2	870.3	920.0	979.0	987.3
25°	3736.4	3521.6	2879.0	2061.3	1216.0	845.4	773.5	782.7	831.5	881.3	886.9
27.5°	3688.5	3430.3	2693.7	1694.4	913.6	725.5	707.1	719.1	743.0	773.5	780.8
30°	3623.9	3327.1	2480.8	1377.3	732.0	665.6	658.2	664.7	678.5	691.4	695.1
32.5°	3559.4	3227.5	2266.0	1054.6	652.7	626.0	618.6	618.6	618.6	620.4	621.3
35°	3499.5	3133.5	2035.5	821.4	611.2	594.6	584.5	573.4	571.6	565.1	565.1
37.5°	3466.3	3047.7	1790.3	687.7	580.8	568.8	555.0	536.5	526.4	527.3	525.5
40°	3472.7	2991.5	1567.2	612.1	555.9	543.0	521.8	500.6	494.1	494.1	492.3
42.5°	3545.6	2973.1	1353.3	572.5	531.9	517.2	490.4	471.1	467.4	466.5	468.3
45°	3713.3	3018.2	1161.6	546.7	511.6	489.5	462.8	445.3	441.6	441.6	440.7
47.5°	4040.6	3164.8	1024.2	530.1	496.9	468.3	440.7	423.1	416.7	414.8	414.8
50°	4549.5	3482.9	921.9	515.3	478.5	449.0	420.4	400.1	390.0	389.0	388.1
52.5°	5256.6	3978.8	882.2	504.3	458.2	428.7	397.3	378.0	365.1	362.3	360.5
55°	6083.5	4671.2	936.6	496.0	437.0	405.6	373.4	353.1	341.1	335.6	334.6
57.5°	7041.3	5502.7	1143.1	484.9	417.6	380.7	349.4	329.1	316.2	309.8	307.9
60°	7901.5	6357.3	1503.6	478.5	401.0	354.0	321.7	303.3	291.3	284.9	283.9
62.5°	8846.4	7172.3	1934.1	496.0	393.6	328.2	295.9	279.3	269.2	262.7	262.7
65°	9855.9	7988.1	2219.0	555.0	404.7	307.9	268.3	254.4	245.2	240.6	239.7
67.5°	10536.2	8270.2	1828.1	615.8	432.4	285.8	241.5	230.5	224.9	220.3	220.3
69°	10462.5	7913.4	1348.7	631.5	440.7	274.7	226.8	218.5	211.1	209.3	207.4
70°	10229.2	7506.9	1130.2	621.3	434.2	264.6	217.6	207.4	201.0	199.1	198.2
72.5°	9111.0	6510.3	841.7	540.2	369.7	229.5	192.7	183.5	177.9	175.2	175.2
75°	7569.6	5321.1	657.3	429.6	289.5	193.6	165.0	157.6	153.0	151.2	150.3
77.5°	4242.5	2971.2	472.0	336.5	219.4	156.7	138.3	131.8	127.2	125.4	125.4
80°	1181.9	849.1	277.5	222.2	149.3	118.9	109.7	105.1	98.6	94.0	96.8
82.5°	445.3	367.8	158.6	133.7	95.0	79.3	76.5	72.8	70.1	63.6	63.6
85°	216.6	178.8	101.4	71.0	52.5	41.5	39.6	37.8	36.0	31.3	32.3
87.5°	74.7	79.3	44.3	25.8	15.7	10.1	8.3	4.6	4.6	4.6	4.6
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)