

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: P454318

Luminaire Tested: **GALN-SA5B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18626 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 204
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

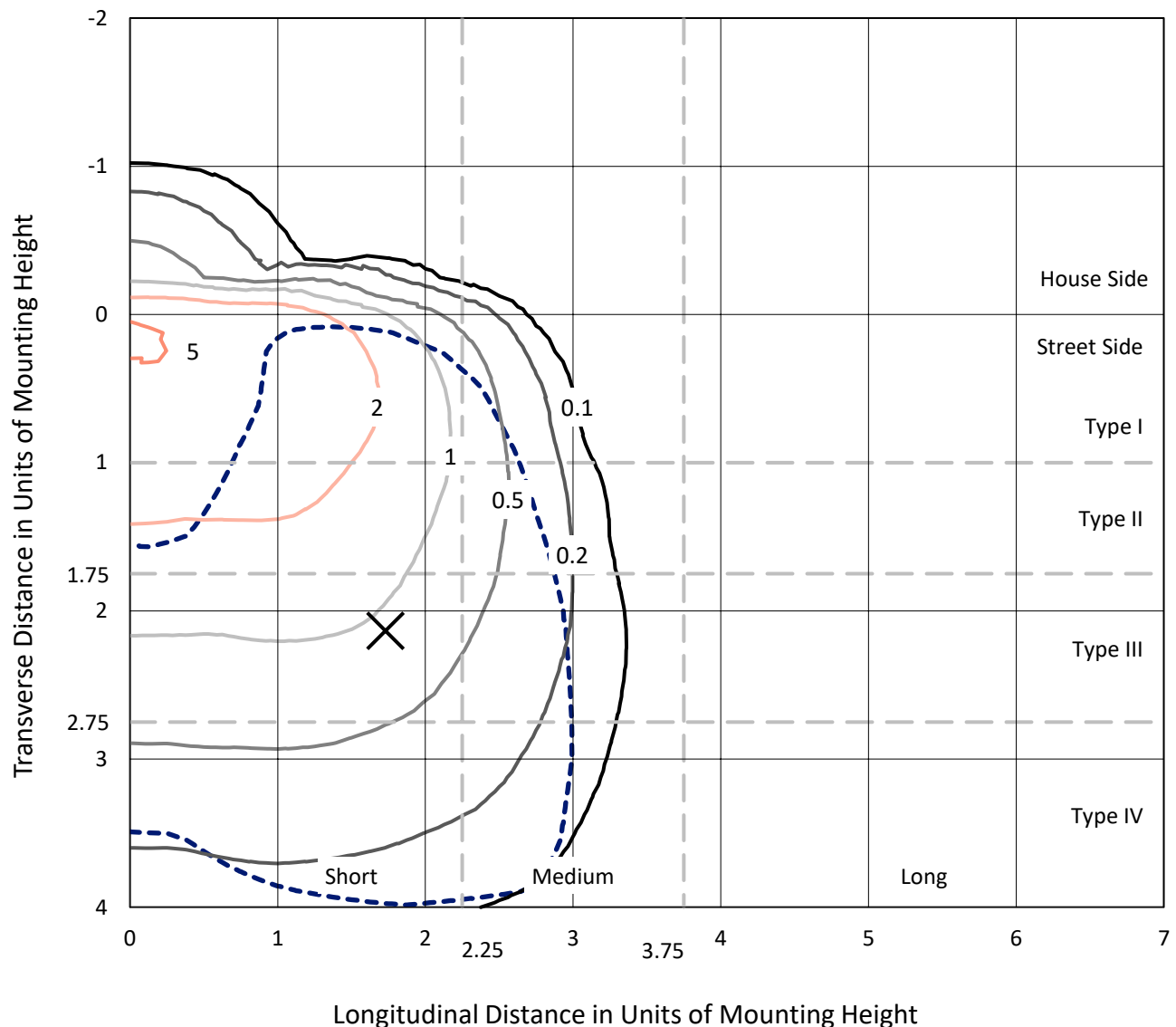


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Iso-Footcandle Lines of Horizontal Illumination

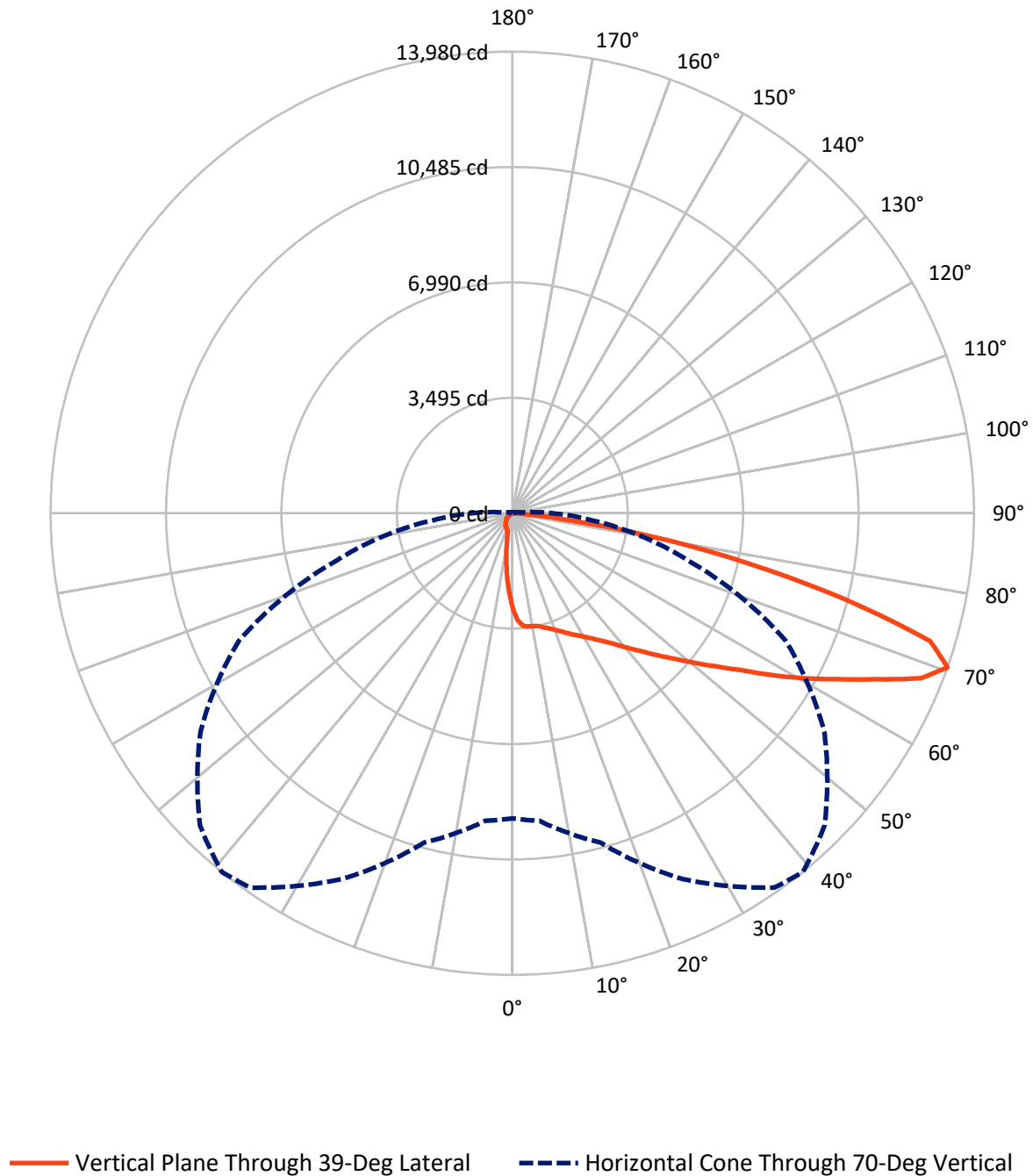
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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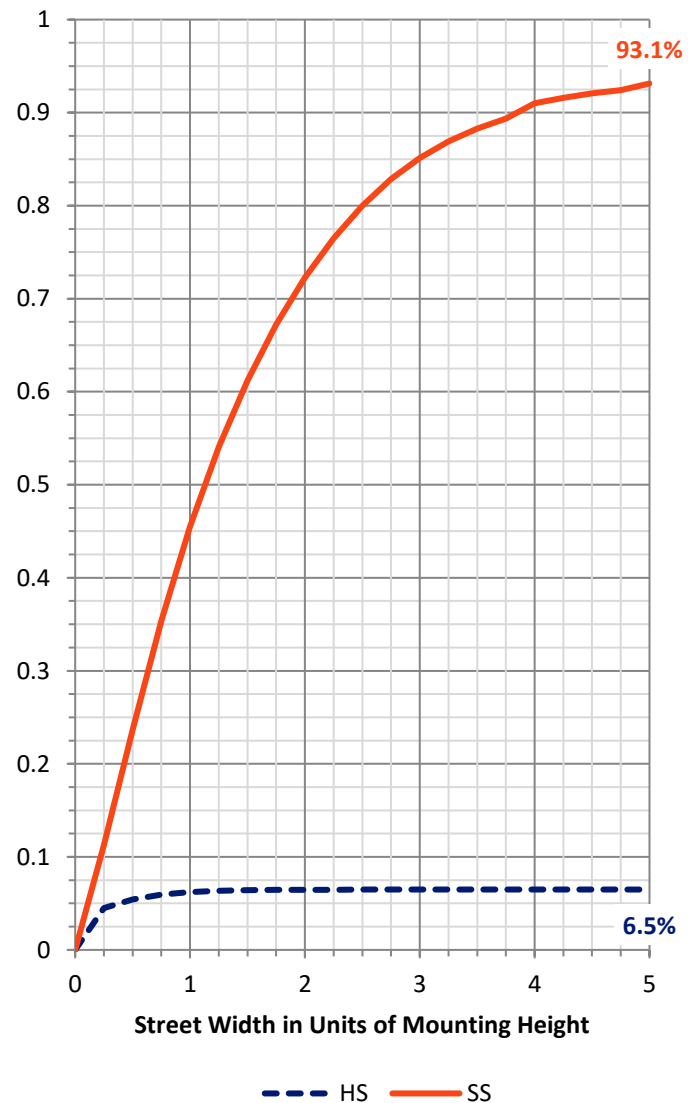
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1214.5	0.0	1214.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	17411.5	0.0	17411.5
	% Fixture	93.5	0.0	93.5
Total	Lumens	18626.0	0.0	18626.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.9	1.3
10°-20°	644.2	3.5
20°-30°	1079.2	5.8
30°-40°	1673.7	9.0
40°-50°	2652.3	14.2
50°-60°	3887.9	20.9
60°-70°	4983.3	26.8
70°-80°	3131.4	16.8
80°-90°	326.2	1.8
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°	18626.0	100.0
0°-180°	18626.0	100.0

Coefficient of Utilization



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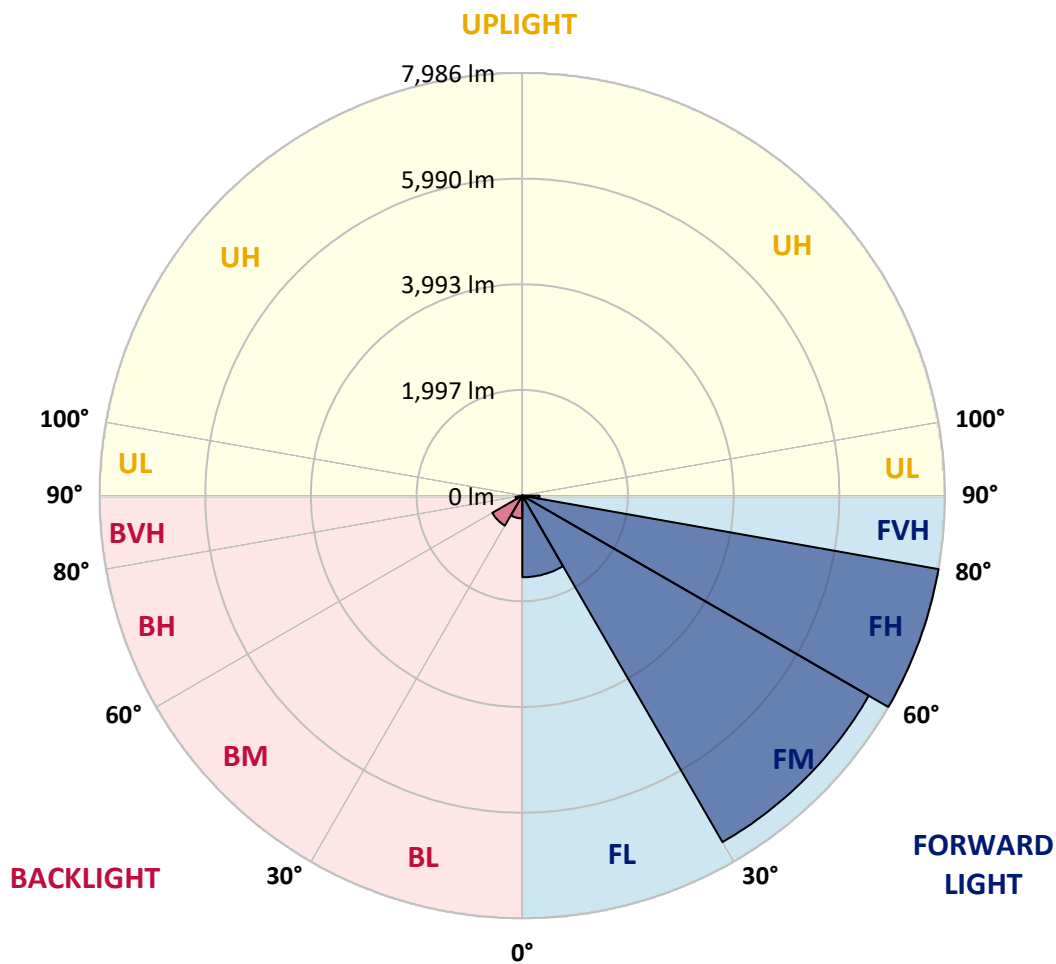
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1541.2	8.3			
FM	(30°-60°)	7560.3	40.6			
FH	(60°-80°)	7986.2	42.9			G4/12000
FVH	(80°-90°)	323.8	1.7			G3/500
BL	(0°-30°)	430.0	2.3	B1/500		
BM	(30°-60°)	653.6	3.5	B1/1000		
BH	(60°-80°)	128.5	0.7	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3
2.5°	3358.1	3346.9	3331.9	3314.3	3264.3	3255.5	3225.5	3161.6	3085.3	3022.7	2936.3
5°	3517.1	3523.4	3512.1	3480.8	3444.5	3423.2	3385.7	3286.8	3187.9	3061.5	2920.1
7.5°	3553.4	3565.9	3552.1	3522.1	3487.1	3464.5	3434.5	3349.4	3234.2	3090.3	2896.3
10°	3549.6	3564.7	3555.9	3528.4	3499.6	3478.3	3445.7	3378.2	3285.5	3134.1	2903.8
12.5°	3543.4	3563.4	3562.2	3548.4	3524.6	3508.3	3488.3	3428.2	3341.9	3197.9	2945.1
15°	3525.9	3550.9	3573.4	3584.7	3585.9	3585.9	3560.9	3497.1	3414.5	3281.8	2998.9
17.5°	3533.4	3562.2	3618.5	3651.0	3673.5	3671.0	3644.8	3575.9	3484.5	3368.1	3055.2
20°	3579.7	3618.5	3697.3	3762.4	3784.9	3777.4	3742.4	3662.3	3558.4	3442.0	3110.3
22.5°	3693.6	3728.6	3827.5	3903.8	3920.1	3900.1	3850.0	3741.1	3647.3	3522.1	3176.6
25°	3863.8	3905.1	3996.5	4054.0	4054.0	4042.8	3972.7	3845.0	3747.4	3633.5	3263.0
27.5°	4070.3	4105.4	4195.5	4246.8	4216.8	4184.2	4114.1	3960.2	3866.3	3773.7	3366.9
30°	4279.3	4301.9	4397.0	4419.5	4388.2	4346.9	4271.8	4117.9	4035.3	3963.9	3517.1
32.5°	4477.1	4525.9	4604.8	4599.8	4557.2	4537.2	4468.3	4304.4	4258.1	4250.6	3727.4
35°	4674.9	4712.4	4782.5	4800.0	4762.5	4758.7	4708.6	4587.2	4588.5	4637.3	4055.3
37.5°	4845.1	4878.9	4961.5	5000.3	5007.8	5026.6	5006.5	4926.4	5040.3	5174.3	4489.6
40°	4987.8	5035.3	5140.5	5208.1	5285.7	5354.5	5358.2	5375.8	5604.8	5835.1	5056.6
42.5°	5099.2	5165.5	5318.2	5443.4	5621.1	5708.7	5778.8	5875.2	6260.7	6604.9	5725.0
45°	5244.3	5320.7	5510.9	5707.5	5985.3	6129.3	6226.9	6484.7	7031.7	7501.0	6410.9
47.5°	5484.7	5524.7	5718.7	6005.3	6370.8	6576.1	6766.3	7156.8	7859.0	8279.6	6981.6
50°	5793.8	5820.1	5966.5	6364.6	6837.7	7108.0	7454.7	7914.1	8717.6	8925.4	7304.5
52.5°	6135.5	6144.3	6254.4	6760.1	7360.9	7701.3	8089.3	8656.3	9417.3	9386.0	7518.6
55°	6532.3	6519.8	6613.6	7189.4	7980.4	8369.7	8821.5	9416.0	10024.3	9712.7	7641.2
57.5°	6986.6	6952.8	7044.2	7758.9	8774.0	9239.6	9698.9	10071.9	10495.0	9986.8	7700.1
60°	7462.2	7394.7	7503.5	8398.5	9708.9	10150.8	10532.5	10632.6	10990.6	10204.6	7598.7
62.5°	7841.5	7842.7	8045.5	9079.4	10670.2	11056.9	11259.7	11349.8	11417.4	10157.0	7065.5
65°	8433.5	8453.5	8777.7	10024.3	11782.9	12118.3	12257.3	11964.4	11436.2	9566.2	6264.4
67.5°	9044.3	9108.1	9701.4	11326.0	13068.3	13338.7	13159.7	12083.3	10925.5	8218.2	4750.0
70°	9243.3	9348.5	10326.0	12222.2	13839.3	13979.5	13373.7	11528.8	9133.2	5494.7	2390.6
72.5°	8469.8	8640.0	9966.8	11895.5	13347.4	13226.0	11965.6	9668.9	5806.3	2086.5	729.7
75°	5972.8	6047.9	8283.3	9867.9	10735.3	10391.1	9101.9	6233.1	2388.1	585.8	250.3
77.5°	3084.0	3047.7	4926.4	6547.3	7656.2	7299.5	5960.3	3226.7	904.9	244.1	155.2
80°	1594.6	1620.9	2131.5	3430.7	4673.6	4300.6	3177.9	1495.7	481.9	135.2	118.9
82.5°	893.7	838.6	1225.3	1498.2	2185.4	1713.5	1219.1	1058.9	210.3	81.4	112.6
85°	162.7	170.2	672.1	809.8	758.5	481.9	393.0	707.2	61.3	45.1	78.9
87.5°	2.5	2.5	130.2	232.8	147.7	67.6	123.9	101.4	12.5	17.5	13.8
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°	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3	2906.3
2.5°	2892.5	2845.0	2756.1	2668.5	2557.1	2465.7	2404.4	2340.6	2275.5	2280.5	2295.5
5°	2842.5	2759.9	2584.6	2399.4	2221.7	2061.4	1903.7	1762.3	1704.7	1652.2	1654.7
7.5°	2792.4	2676.0	2419.4	2129.0	1859.9	1587.1	1389.3	1226.6	1140.2	1075.2	1056.4
10°	2769.9	2615.9	2268.0	1868.7	1486.9	1189.1	935.0	802.3	699.7	667.1	675.9
12.5°	2779.9	2585.9	2131.5	1633.4	1179.0	828.6	650.8	583.3	560.7	557.0	554.5
15°	2798.7	2564.6	1997.6	1373.0	866.1	615.8	547.0	534.4	531.9	529.4	530.7
17.5°	2823.7	2545.8	1854.9	1129.0	664.6	538.2	518.2	511.9	510.7	510.7	510.7
20°	2848.7	2524.5	1696.0	911.2	554.5	508.2	495.6	491.9	490.6	490.6	489.4
22.5°	2877.5	2505.8	1534.5	715.9	510.7	486.9	475.6	473.1	471.9	470.6	470.6
25°	2918.8	2482.0	1363.0	585.8	483.1	466.9	455.6	453.1	451.8	446.8	448.1
27.5°	2973.9	2464.5	1186.5	505.7	458.1	441.8	434.3	430.6	428.1	424.3	425.6
30°	3049.0	2449.4	998.8	461.9	429.3	415.5	408.0	405.5	403.0	399.3	399.3
32.5°	3179.2	2455.7	801.0	426.8	403.0	386.8	379.2	376.7	374.2	370.5	370.5
35°	3374.4	2492.0	640.8	396.8	371.7	355.5	348.0	348.0	344.2	339.2	337.9
37.5°	3693.6	2584.6	514.4	368.0	341.7	326.7	317.9	315.4	311.7	304.1	302.9
40°	4070.3	2728.6	433.1	339.2	314.2	299.1	291.6	284.1	274.1	266.6	265.3
42.5°	4543.4	2876.3	375.5	310.4	287.9	274.1	265.3	252.8	237.8	227.8	226.5
45°	5036.6	3011.4	336.7	284.1	262.8	251.6	241.6	221.5	202.8	190.2	189.0
47.5°	5404.6	3036.5	305.4	259.1	241.6	230.3	216.5	191.5	166.5	155.2	151.4
50°	5578.5	2915.1	272.9	234.1	220.3	207.8	190.2	161.5	133.9	120.2	117.7
52.5°	5639.9	2704.8	246.6	211.5	199.0	184.0	162.7	130.2	105.1	91.4	90.1
55°	5614.8	2439.4	222.8	190.2	174.0	156.5	135.2	103.9	77.6	66.3	63.8
57.5°	5483.4	2101.5	199.0	169.0	148.9	131.4	107.6	77.6	52.6	42.6	41.3
60°	5129.2	1640.9	175.2	145.2	126.4	107.6	85.1	55.1	32.5	23.8	23.8
62.5°	4530.9	1217.8	152.7	121.4	106.4	86.4	60.1	35.0	17.5	12.5	11.3
65°	3786.2	898.7	127.7	102.6	88.9	67.6	42.6	21.3	8.8	3.8	2.5
67.5°	2642.2	554.5	106.4	83.9	72.6	48.8	26.3	8.8	3.8	0.0	0.0
70°	1200.3	264.1	81.4	63.8	55.1	35.0	13.8	5.0	2.5	0.0	0.0
72.5°	373.0	138.9	57.6	46.3	37.5	22.5	7.5	3.8	2.5	0.0	0.0
75°	172.7	88.9	36.3	25.0	21.3	11.3	5.0	2.5	1.3	0.0	0.0
77.5°	128.9	68.8	21.3	13.8	11.3	7.5	3.8	2.5	1.3	0.0	0.0
80°	112.6	35.0	12.5	8.8	6.3	5.0	2.5	1.3	0.0	0.0	0.0
82.5°	101.4	17.5	7.5	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0
85°	55.1	10.0	5.0	3.8	2.5	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.0	5.0	3.8	2.5	2.5	1.3	1.3	1.3	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)