

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: P456174

Luminaire Tested: **GALN-SA7B-830-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456174
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-SA7B-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 25906 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 286
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

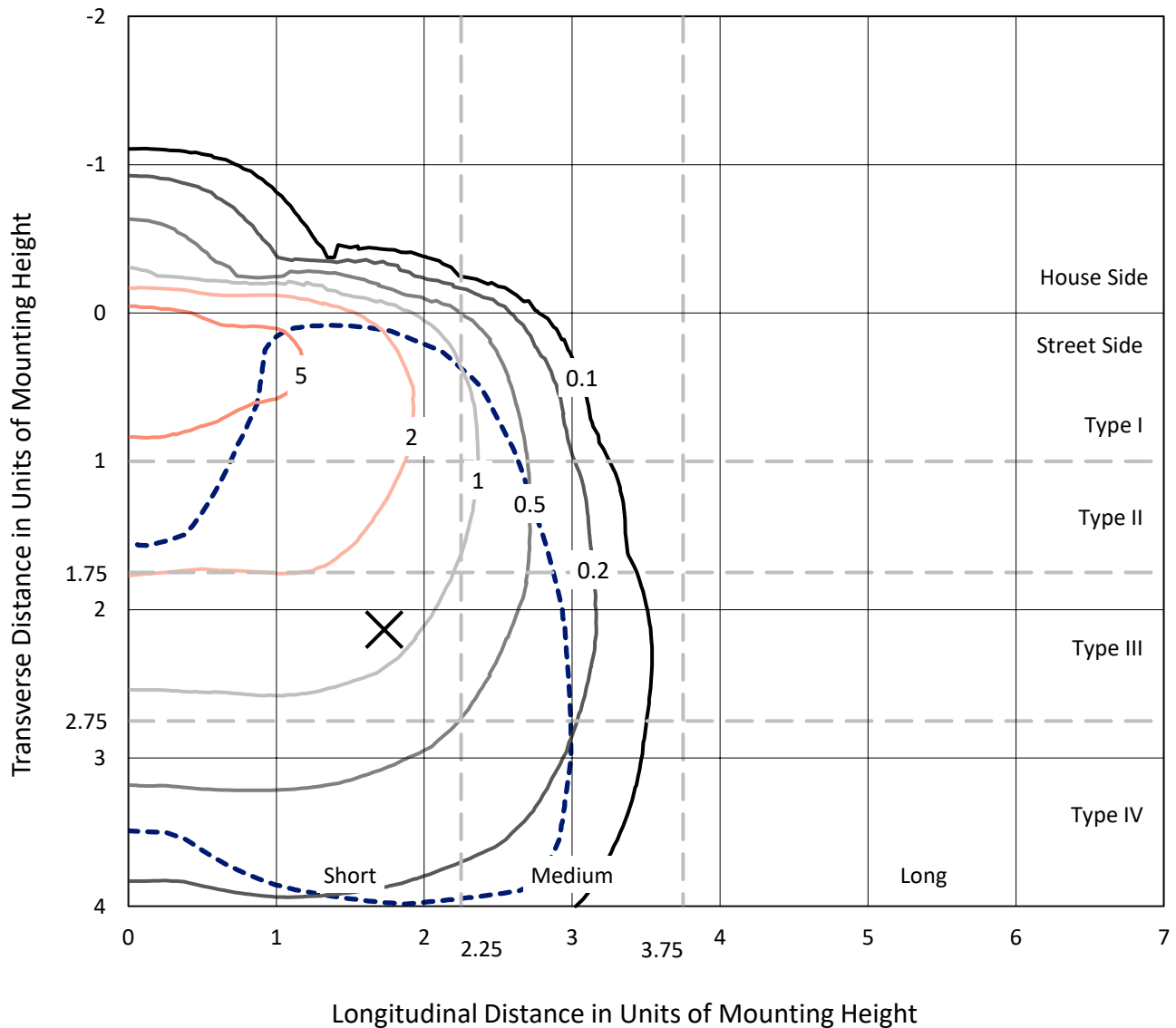


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Iso-Footcandle Lines of Horizontal Illumination

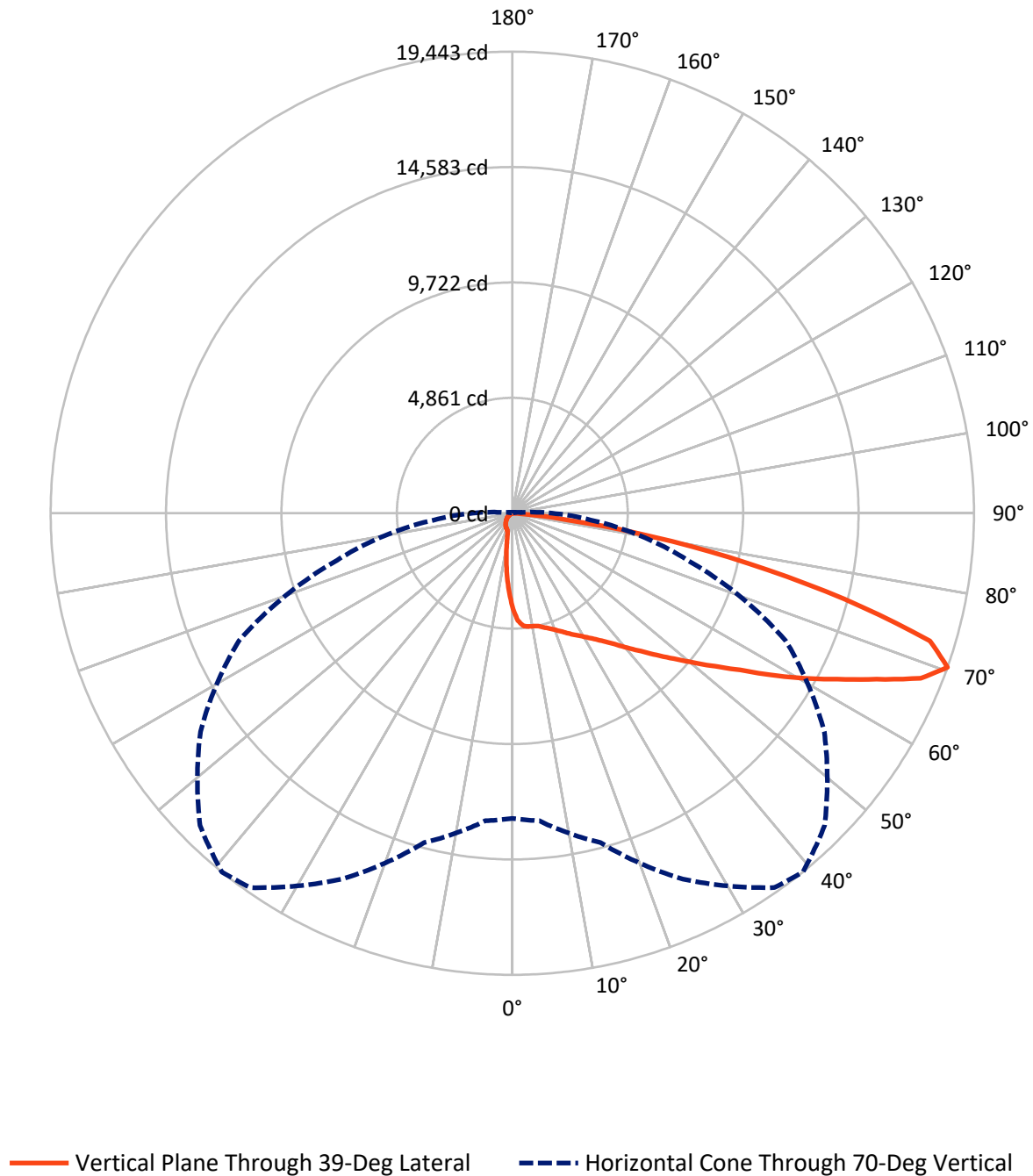
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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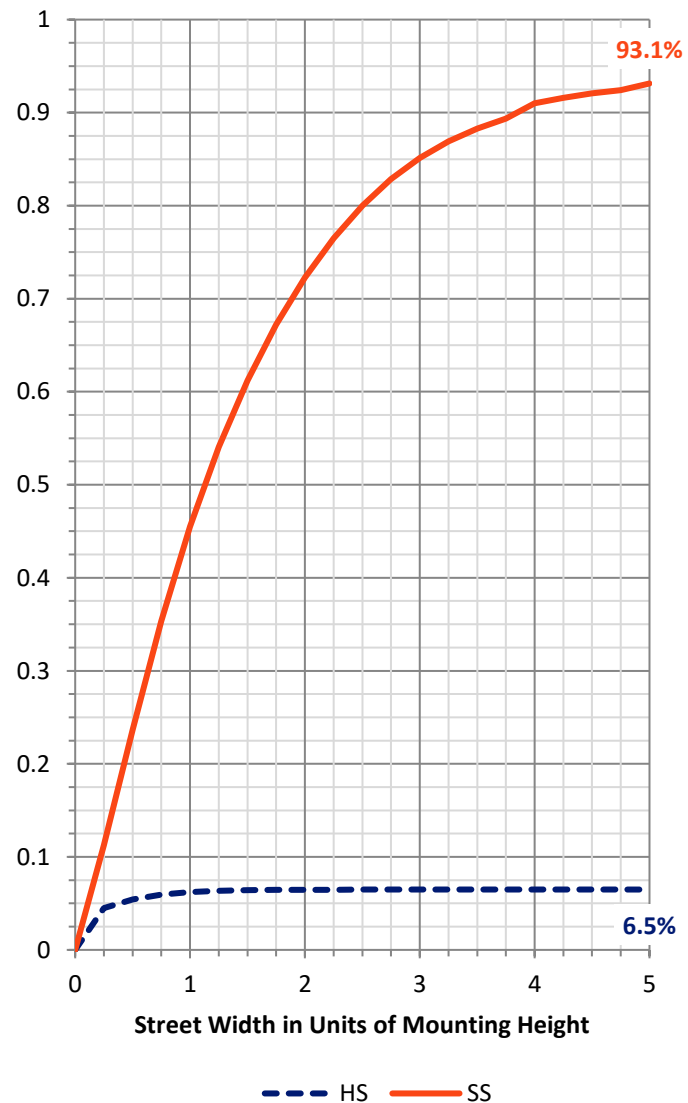
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1689.2	0.0	1689.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	24216.8	0.0	24216.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	25906.0	0.0	25906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.8	1.3
10°-20°	896.0	3.5
20°-30°	1501.0	5.8
30°-40°	2327.9	9.0
40°-50°	3688.9	14.2
50°-60°	5407.5	20.9
60°-70°	6931.0	26.8
70°-80°	4355.2	16.8
80°-90°	453.7	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°	25906.0	100.0
0°-180°	25906.0	100.0

Coefficient of Utilization



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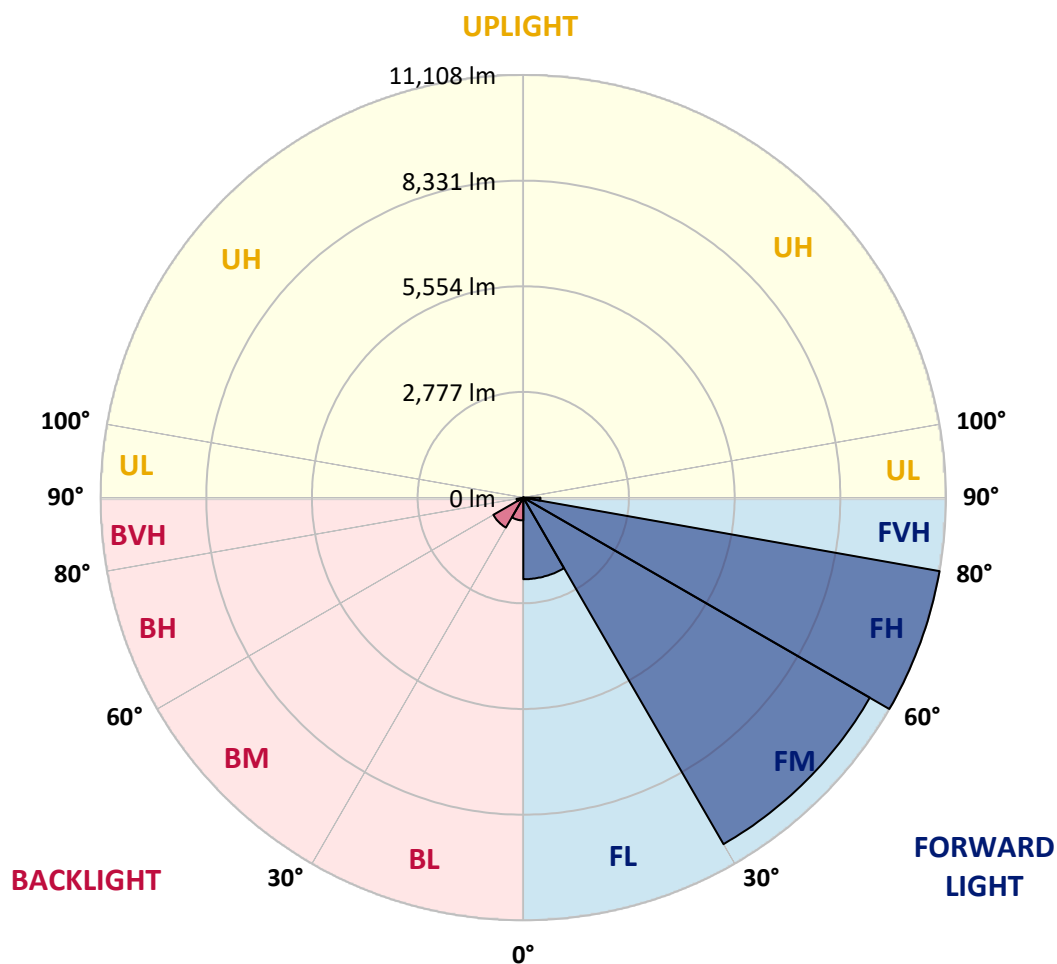
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2143.6	8.3			
FM	(30°-60°)	10515.2	40.6			
FH	(60°-80°)	11107.6	42.9			G4/12000
FVH	(80°-90°)	450.4	1.7			G3/500
BL	(0°-30°)	598.1	2.3	B2/1000		
BM	(30°-60°)	909.1	3.5	B1/1000		
BH	(60°-80°)	178.6	0.7	B1/500		G1/500
BVH	(80°-90°)	3.3	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°	35°	39°	45°	55°	65°	75°	85°
0°	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2
2.5°	4670.7	4655.0	4634.1	4609.7	4540.1	4527.9	4486.1	4397.4	4291.2	4204.1	4084.0
5°	4891.8	4900.5	4884.8	4841.3	4790.8	4761.2	4709.0	4571.4	4433.9	4258.1	4061.4
7.5°	4942.2	4959.6	4940.5	4898.7	4850.0	4818.6	4776.9	4658.5	4498.3	4298.1	4028.3
10°	4937.0	4957.9	4945.7	4907.4	4867.4	4837.8	4792.5	4698.5	4569.7	4359.1	4038.7
12.5°	4928.3	4956.2	4954.4	4935.3	4902.2	4879.6	4851.7	4768.2	4648.0	4447.8	4096.2
15°	4903.9	4938.8	4970.1	4985.8	4987.5	4987.5	4952.7	4863.9	4749.0	4564.5	4171.0
17.5°	4914.4	4954.4	5032.8	5078.0	5109.4	5105.9	5069.3	4973.6	4846.5	4684.6	4249.4
20°	4978.8	5032.8	5142.4	5233.0	5264.3	5253.8	5205.1	5093.7	4949.2	4787.3	4326.0
22.5°	5137.2	5186.0	5323.5	5429.7	5452.3	5424.4	5354.8	5203.4	5072.8	4898.7	4418.2
25°	5374.0	5431.4	5558.5	5638.6	5638.6	5622.9	5525.4	5347.9	5212.1	5053.7	4538.4
27.5°	5661.2	5709.9	5835.3	5906.7	5864.9	5819.6	5722.1	5508.0	5377.4	5248.6	4682.9
30°	5951.9	5983.3	6115.6	6146.9	6103.4	6045.9	5941.5	5727.4	5612.5	5513.2	4891.8
32.5°	6227.0	6294.9	6404.5	6397.6	6338.4	6310.5	6214.8	5986.7	5922.3	5911.9	5184.2
35°	6502.0	6554.3	6651.7	6676.1	6623.9	6618.7	6549.0	6380.2	6381.9	6449.8	5640.3
37.5°	6738.8	6785.8	6900.7	6954.6	6965.1	6991.2	6963.3	6851.9	7010.4	7196.6	6244.4
40°	6937.2	7003.4	7149.6	7243.6	7351.6	7447.3	7452.5	7476.9	7795.5	8115.8	7033.0
42.5°	7092.2	7184.4	7396.8	7570.9	7818.1	7940.0	8037.4	8171.5	8707.7	9186.4	7962.6
45°	7294.1	7400.3	7664.9	7938.2	8324.7	8524.9	8660.7	9019.3	9780.0	10432.8	8916.6
47.5°	7628.3	7684.1	7953.9	8352.5	8860.9	9146.4	9411.0	9954.1	10930.7	11515.6	9710.4
50°	8058.3	8094.9	8298.6	8852.2	9510.2	9886.2	10368.4	11007.3	12124.9	12413.9	10159.5
52.5°	8533.6	8545.8	8699.0	9402.3	10237.9	10711.4	11251.0	12039.6	13098.1	13054.5	10457.2
55°	9085.4	9068.0	9198.6	9999.4	11099.6	11641.0	12269.4	13096.3	13942.4	13508.9	10627.8
57.5°	9717.4	9670.4	9797.4	10791.5	12203.3	12850.9	13489.7	14008.5	14596.9	13890.1	10709.6
60°	10378.9	10284.9	10436.3	11681.0	13503.7	14118.2	14649.1	14788.4	15286.3	14193.0	10568.6
62.5°	10906.3	10908.1	11190.1	12628.0	14840.6	15378.6	15660.6	15785.9	15879.9	14126.9	9827.0
65°	11729.8	11757.6	12208.5	13942.4	16388.2	16854.8	17048.0	16640.7	15906.0	13305.2	8712.9
67.5°	12579.3	12668.1	13493.2	15752.8	18176.1	18552.1	18303.2	16806.0	15195.8	11430.3	6606.5
70°	12856.1	13002.3	14361.9	16999.3	19248.4	19443.4	18600.8	16034.9	12702.9	7642.3	3325.0
72.5°	11780.2	12017.0	13862.3	16544.9	18564.3	18395.4	16642.4	13448.0	8075.7	2902.0	1014.9
75°	8307.3	8411.7	11520.9	13724.8	14931.2	14452.4	12659.4	8669.4	3321.5	814.7	348.2
77.5°	4289.4	4238.9	6851.9	9106.3	10648.7	10152.6	8289.9	4487.9	1258.6	339.5	215.9
80°	2217.8	2254.4	2964.6	4771.6	6500.3	5981.5	4420.0	2080.3	670.2	188.0	165.4
82.5°	1243.0	1166.4	1704.3	2083.8	3039.5	2383.2	1695.6	1472.7	292.5	113.2	156.7
85°	226.3	236.8	934.8	1126.3	1054.9	670.2	546.6	983.6	85.3	62.7	109.7
87.5°	3.5	3.5	181.0	323.8	205.4	94.0	172.3	141.0	17.4	24.4	19.1
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°	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2	4042.2
2.5°	4023.1	3956.9	3833.3	3711.5	3556.5	3429.4	3344.1	3255.4	3164.8	3171.8	3192.7
5°	3953.4	3838.5	3594.8	3337.2	3090.0	2867.2	2647.8	2451.1	2371.0	2297.9	2301.4
7.5°	3883.8	3721.9	3365.0	2961.2	2586.9	2207.4	1932.3	1706.0	1585.9	1495.4	1469.3
10°	3852.5	3638.4	3154.4	2599.1	2068.1	1653.8	1300.4	1115.9	973.1	927.9	940.1
12.5°	3866.4	3596.6	2964.6	2271.8	1639.9	1152.4	905.2	811.2	779.9	774.7	771.2
15°	3892.5	3567.0	2778.4	1909.7	1204.7	856.5	760.7	743.3	739.9	736.4	738.1
17.5°	3927.3	3540.9	2579.9	1570.2	924.4	748.6	720.7	712.0	710.3	710.3	710.3
20°	3962.1	3511.3	2358.8	1267.3	771.2	706.8	689.4	684.1	682.4	682.4	680.7
22.5°	4002.2	3485.2	2134.3	995.8	710.3	677.2	661.5	658.0	656.3	654.6	654.6
25°	4059.6	3452.1	1895.8	814.7	672.0	649.3	633.7	630.2	628.4	621.5	623.2
27.5°	4136.2	3427.7	1650.3	703.3	637.1	614.5	604.1	598.8	595.4	590.1	591.9
30°	4240.7	3406.8	1389.2	642.4	597.1	578.0	567.5	564.0	560.5	555.3	555.3
32.5°	4421.7	3415.5	1114.1	593.6	560.5	537.9	527.5	524.0	520.5	515.3	515.3
35°	4693.3	3466.0	891.3	551.8	517.0	494.4	484.0	484.0	478.7	471.8	470.0
37.5°	5137.2	3594.8	715.5	511.8	475.2	454.4	442.2	438.7	433.5	423.0	421.3
40°	5661.2	3795.0	602.3	471.8	437.0	416.1	405.6	395.2	381.2	370.8	369.1
42.5°	6319.2	4000.4	522.3	431.7	400.4	381.2	369.1	351.6	330.8	316.8	315.1
45°	7005.1	4188.5	468.3	395.2	365.6	349.9	336.0	308.1	282.0	264.6	262.9
47.5°	7516.9	4223.3	424.8	360.4	336.0	320.3	301.2	266.3	231.5	215.9	210.6
50°	7758.9	4054.4	379.5	325.5	306.4	289.0	264.6	224.6	186.3	167.1	163.6
52.5°	7844.2	3761.9	342.9	294.2	276.8	255.9	226.3	181.0	146.2	127.1	125.3
55°	7809.4	3392.9	309.9	264.6	242.0	217.6	188.0	144.5	107.9	92.3	88.8
57.5°	7626.6	2922.9	276.8	235.0	207.2	182.8	149.7	107.9	73.1	59.2	57.4
60°	7134.0	2282.2	243.7	201.9	175.8	149.7	118.4	76.6	45.3	33.1	33.1
62.5°	6301.8	1693.8	212.4	168.9	148.0	120.1	83.6	48.7	24.4	17.4	15.7
65°	5266.0	1249.9	177.6	142.7	123.6	94.0	59.2	29.6	12.2	5.2	3.5
67.5°	3674.9	771.2	148.0	116.6	101.0	67.9	36.6	12.2	5.2	0.0	0.0
70°	1669.5	367.3	113.2	88.8	76.6	48.7	19.1	7.0	3.5	0.0	0.0
72.5°	518.8	193.2	80.1	64.4	52.2	31.3	10.4	5.2	3.5	0.0	0.0
75°	240.2	123.6	50.5	34.8	29.6	15.7	7.0	3.5	1.7	0.0	0.0
77.5°	179.3	95.7	29.6	19.1	15.7	10.4	5.2	3.5	1.7	0.0	0.0
80°	156.7	48.7	17.4	12.2	8.7	7.0	3.5	1.7	0.0	0.0	0.0
82.5°	141.0	24.4	10.4	7.0	5.2	3.5	1.7	1.7	0.0	0.0	0.0
85°	76.6	13.9	7.0	5.2	3.5	1.7	1.7	0.0	0.0	0.0	0.0
87.5°	13.9	7.0	5.2	3.5	3.5	1.7	1.7	1.7	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)