

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: P458028

Luminaire Tested: **GALN-SA9B-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33909 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 364
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

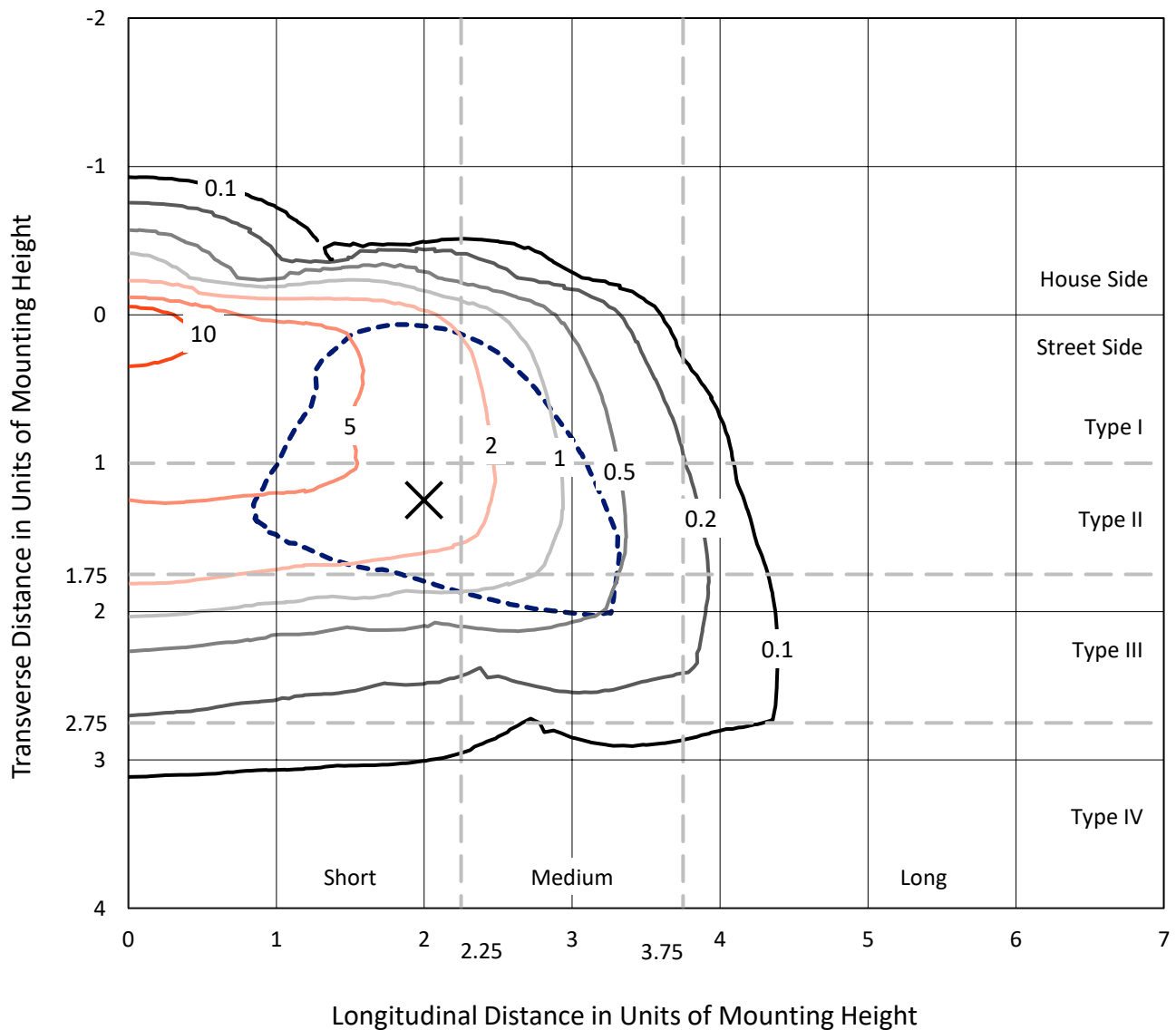


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

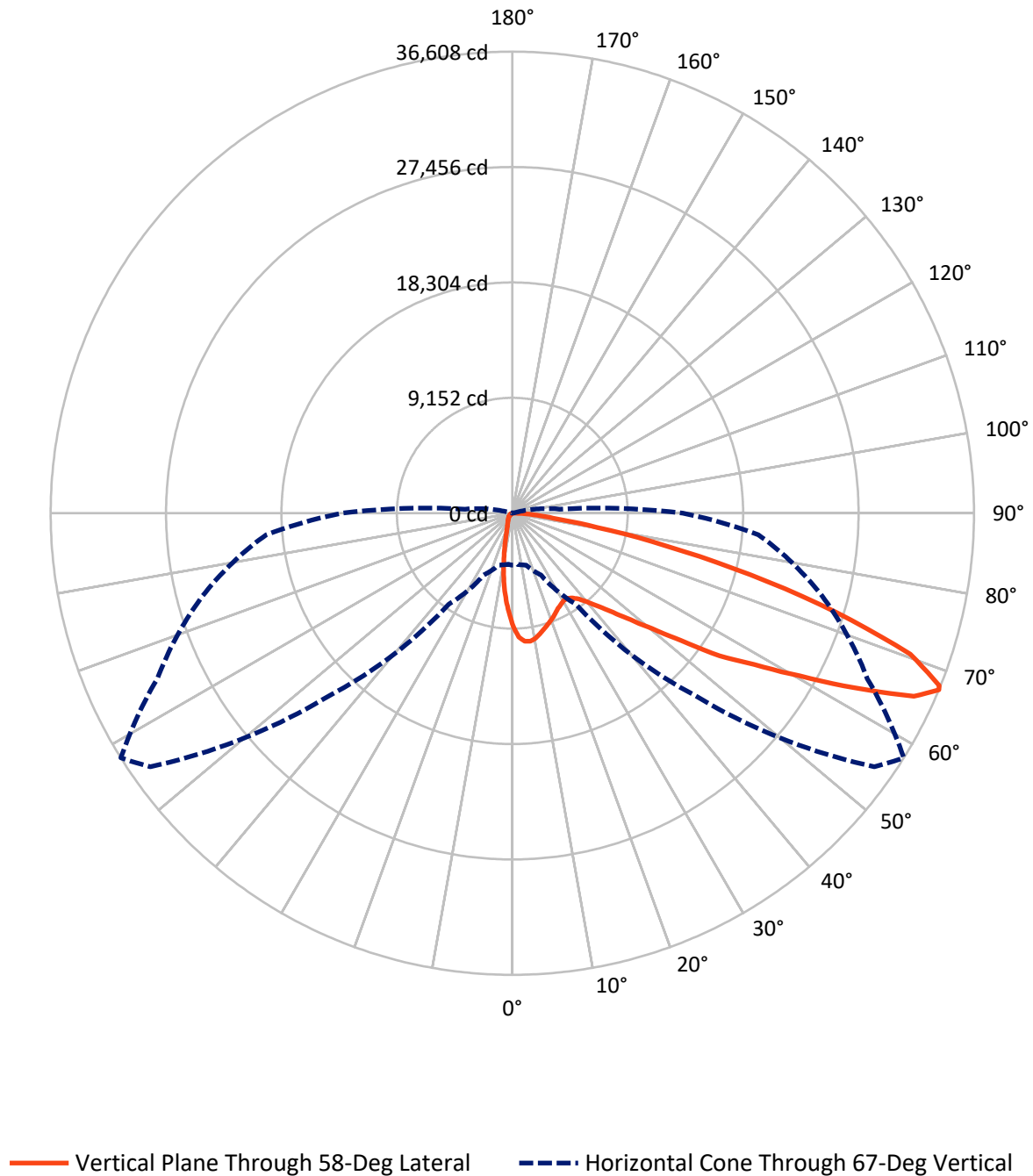


Based on 25 foot mounting height. Maximum calculated value = 16 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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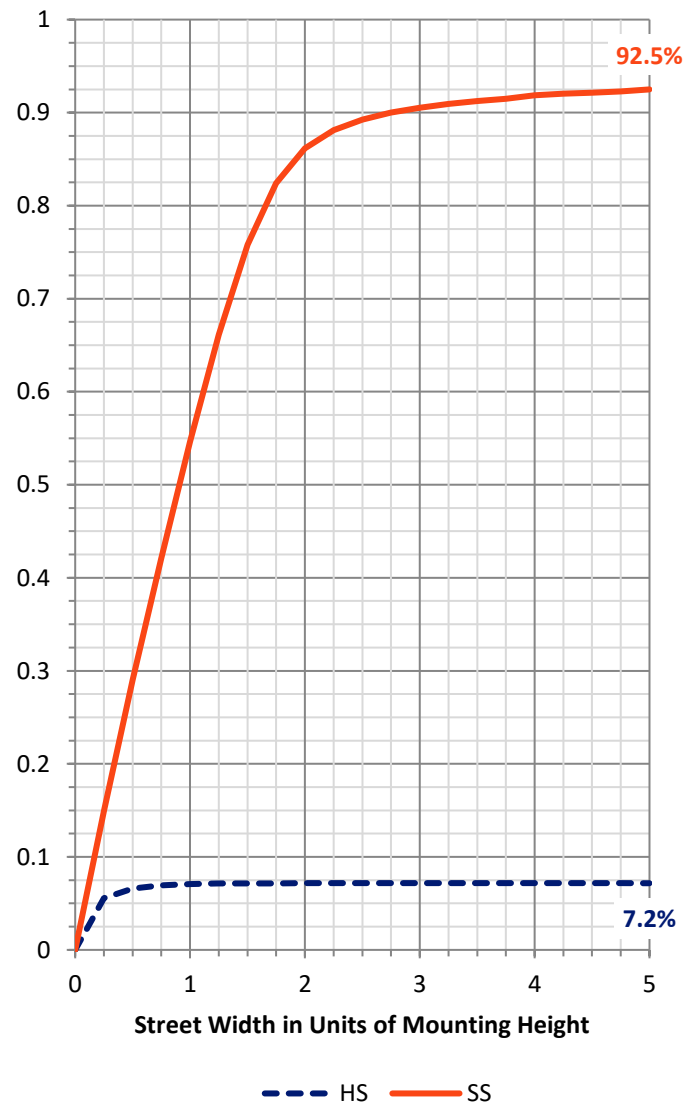
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2447.1	0.0	2447.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	31461.9	0.0	31461.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	33909.0	0.0	33909.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.4	2.2
10°-20°	1575.4	4.6
20°-30°	2134.8	6.3
30°-40°	2960.8	8.7
40°-50°	4722.1	13.9
50°-60°	8162.6	24.1
60°-70°	9324.3	27.5
70°-80°	3887.4	11.5
80°-90°	412.2	1.2
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°	33909.0	100.0
0°-180°	33909.0	100.0

Coefficient of Utilization



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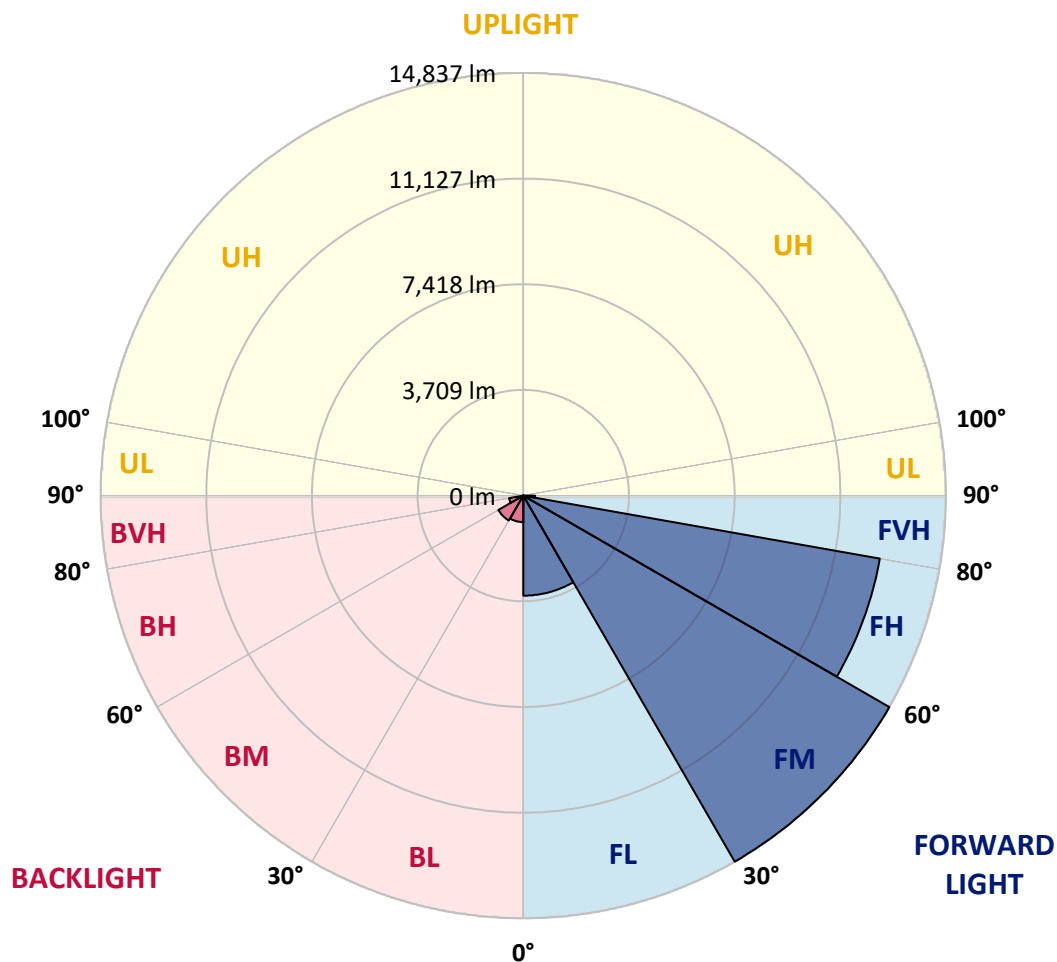
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3510.4	10.4			
FM	(30°-60°)	14836.6	43.8			
FH	(60°-80°)	12705.7	37.5			G5
FVH	(80°-90°)	409.2	1.2			G3/500
BL	(0°-30°)	929.2	2.7	B2/1000		
BM	(30°-60°)	1009.0	3.0	B2/2500		
BH	(60°-80°)	505.9	1.5	B2/1000		G2/1000
BVH	(80°-90°)	3.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0
2.5°	10432.4	10448.2	10389.3	10341.7	10219.4	10087.9	9913.5	9820.6	9661.9	9387.8	9084.1
5°	10677.1	10697.5	10688.4	10677.1	10629.5	10502.6	10280.5	10199.0	9965.6	9519.2	8970.8
7.5°	10133.3	10208.0	10217.1	10305.5	10389.3	10400.6	10316.8	10255.6	10040.4	9516.9	8769.2
10°	9412.7	9462.5	9535.1	9637.0	9838.7	10006.4	10087.9	10078.9	9954.3	9446.7	8533.5
12.5°	8685.3	8712.5	8823.6	8998.0	9245.0	9530.5	9748.1	9791.1	9793.4	9362.8	8336.4
15°	8059.9	8048.6	8134.7	8336.4	8683.1	9041.1	9430.8	9498.8	9607.6	9281.3	8152.8
17.5°	7525.2	7584.1	7597.7	7819.7	8139.2	8603.8	9100.0	9220.1	9437.6	9211.0	8001.0
20°	7194.3	7226.1	7255.5	7380.2	7667.9	8157.4	8789.6	8955.0	9279.0	9147.6	7831.1
22.5°	7096.9	7117.3	7092.4	7130.9	7334.8	7769.9	8451.9	8671.7	9127.2	9088.7	7692.8
25°	7171.7	7192.1	7133.2	7087.8	7158.1	7454.9	8125.6	8393.0	9004.8	9077.3	7588.6
27.5°	7353.0	7391.5	7309.9	7228.3	7187.5	7285.0	7869.6	8180.0	8921.0	9131.7	7541.0
30°	7636.2	7658.9	7597.7	7498.0	7405.1	7307.6	7735.9	8032.7	8898.3	9258.6	7536.5
32.5°	7944.4	7992.0	7958.0	7892.3	7772.2	7541.0	7774.4	8037.3	8952.7	9442.2	7593.1
35°	8325.0	8379.4	8411.2	8397.6	8243.5	7955.7	8019.1	8241.2	9097.7	9779.8	7747.2
37.5°	8698.9	8746.5	8925.5	8986.7	8850.7	8578.8	8495.0	8642.3	9417.2	10221.6	8025.9
40°	9127.2	9190.6	9442.2	9675.5	9609.8	9324.3	9170.2	9292.6	9906.7	10887.8	8553.9
42.5°	9537.3	9650.6	10033.6	10446.0	10507.1	10187.6	10085.7	10126.5	10631.8	11846.3	9290.3
45°	10119.7	10226.2	10720.1	11279.8	11567.6	11318.3	11214.1	11207.3	11626.5	13194.5	10484.5
47.5°	10960.3	11055.5	11637.8	12190.7	12702.8	12736.8	12539.7	12607.7	12877.3	14771.6	11948.3
50°	11991.3	12215.7	12598.6	13174.1	13858.5	14411.3	14472.5	14381.9	14613.0	16598.0	13706.6
52.5°	13489.1	13575.2	13926.4	14400.0	15202.2	16140.3	16867.6	16743.0	16670.5	18338.2	15483.1
55°	14606.2	14721.8	15267.9	15918.2	17094.2	18331.4	19908.5	19951.6	19036.1	20010.5	17221.1
57.5°	14268.6	14445.3	15272.4	16579.8	19165.3	21426.7	22600.4	22629.9	21225.0	21635.1	19183.4
60°	12535.2	12619.0	13804.1	15548.8	19342.0	24780.3	26418.5	26180.6	23452.4	23452.4	20916.8
62.5°	8889.3	9020.7	9981.4	12548.7	17468.1	25945.0	30991.2	30499.5	26520.5	25190.4	21950.1
65°	5680.7	5553.8	6190.5	7921.7	13013.3	24225.1	34972.4	35001.9	29407.3	25886.0	21385.9
67°	4114.9	4065.1	4248.6	5415.6	8823.6	20364.0	35056.3	36608.4	31066.0	25446.5	19582.2
67.5°	3763.7	3802.2	3935.9	4885.4	8016.9	18530.8	34675.6	36513.3	31439.8	25181.3	18929.6
70°	2852.8	2787.1	2932.1	3455.6	4806.0	11690.0	29828.8	33488.3	30975.3	22550.6	15125.1
72.5°	2098.3	2091.5	2293.1	2825.6	3700.3	6226.8	22392.0	26851.3	25306.0	17171.3	9523.7
75°	1416.2	1479.7	1801.4	2361.1	3353.6	4037.9	15265.6	19480.2	17567.8	9750.3	3892.9
77.5°	806.7	811.2	1160.2	1896.6	3011.4	3249.4	9045.6	12410.5	9299.4	3242.6	1155.6
80°	349.0	382.9	575.5	1377.7	2497.1	2877.7	5186.7	6820.5	3761.5	686.6	373.9
82.5°	129.2	151.8	253.8	847.5	1821.8	2370.2	3133.8	3256.1	1275.7	242.5	233.4
85°	0.0	4.5	92.9	396.5	949.4	1058.2	2093.7	1930.6	564.2	115.6	151.8
87.5°	0.0	0.0	0.0	40.8	124.6	394.3	650.3	725.1	136.0	40.8	36.3
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°	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0	8989.0
2.5°	8921.0	8773.7	8404.4	8035.0	7760.8	7532.0	7187.5	6999.5	6899.8	6752.5	6761.6
5°	8696.7	8397.6	7747.2	7074.2	6530.4	6000.2	5365.7	5109.7	4894.4	4772.1	4690.5
7.5°	8363.6	7921.7	6958.7	6061.4	5225.2	4298.5	3602.8	3138.3	2825.6	2710.1	2599.0
10°	7998.8	7411.9	6158.8	4914.8	3754.7	2798.4	2209.3	1783.3	1631.5	1491.0	1504.6
12.5°	7661.1	6947.4	5424.6	3879.3	2630.8	1778.8	1386.8	1212.3	1162.4	1146.6	1146.6
15°	7384.7	6503.2	4636.1	2916.3	1803.7	1278.0	1110.3	1062.7	1044.6	1040.1	1040.1
17.5°	7090.1	6081.8	3924.6	2154.9	1312.0	1069.5	1012.9	981.1	974.4	969.8	969.8
20°	6827.3	5658.0	3249.4	1604.3	1060.5	963.0	926.8	906.4	899.6	895.0	897.3
22.5°	6578.0	5281.9	2614.9	1212.3	933.6	876.9	840.7	820.3	806.7	795.3	797.6
25°	6355.9	4919.3	2102.8	992.5	840.7	790.8	754.6	725.1	695.6	682.0	679.8
27.5°	6199.6	4602.1	1638.3	849.7	756.8	702.4	657.1	620.9	582.3	562.0	557.4
30°	6070.4	4280.4	1296.1	750.0	673.0	620.9	564.2	512.1	471.3	450.9	441.9
32.5°	5986.6	3974.5	1021.9	668.5	602.7	539.3	475.8	423.7	378.4	358.0	353.5
35°	5973.0	3718.4	836.1	600.5	539.3	471.3	405.6	349.0	310.4	290.0	285.5
37.5°	6070.4	3521.3	700.2	546.1	487.2	412.4	339.9	287.8	253.8	237.9	235.7
40°	6331.0	3396.6	607.3	500.8	439.6	358.0	290.0	244.7	210.7	194.9	194.9
42.5°	6827.3	3401.2	546.1	457.7	392.0	305.9	247.0	203.9	174.5	160.9	156.3
45°	7602.2	3555.3	494.0	414.7	346.7	265.1	210.7	167.7	138.2	126.9	126.9
47.5°	8640.0	3861.2	448.7	371.6	305.9	226.6	179.0	136.0	111.0	99.7	99.7
50°	9997.3	4352.9	410.1	335.4	271.9	194.9	145.0	111.0	86.1	77.0	74.8
52.5°	11415.8	4960.1	364.8	303.6	233.4	165.4	117.8	86.1	65.7	58.9	56.6
55°	12981.5	5553.8	321.8	271.9	190.3	138.2	92.9	68.0	47.6	40.8	40.8
57.5°	14560.9	6136.2	269.6	226.6	149.6	102.0	72.5	49.9	31.7	24.9	24.9
60°	15897.8	6324.2	228.9	183.5	113.3	72.5	52.1	31.7	18.1	11.3	11.3
62.5°	16081.3	5689.8	192.6	140.5	81.6	49.9	27.2	18.1	6.8	4.5	4.5
65°	15084.3	4622.5	160.9	106.5	54.4	24.9	11.3	6.8	2.3	0.0	0.0
67°	13516.3	3747.9	131.4	79.3	38.5	15.9	6.8	2.3	0.0	0.0	0.0
67.5°	13115.2	3573.4	126.9	74.8	34.0	13.6	4.5	2.3	0.0	0.0	0.0
70°	10291.9	2676.1	90.6	45.3	20.4	9.1	0.0	0.0	0.0	0.0	0.0
72.5°	6396.7	1513.6	65.7	27.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0
75°	2417.8	530.2	45.3	18.1	9.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	752.3	201.7	27.2	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	253.8	77.0	18.1	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	156.3	31.7	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	97.4	13.6	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	18.1	4.5	2.3	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)