

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: P456423

Luminaire Tested: **GALN-SA7C-830-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7C-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28149 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

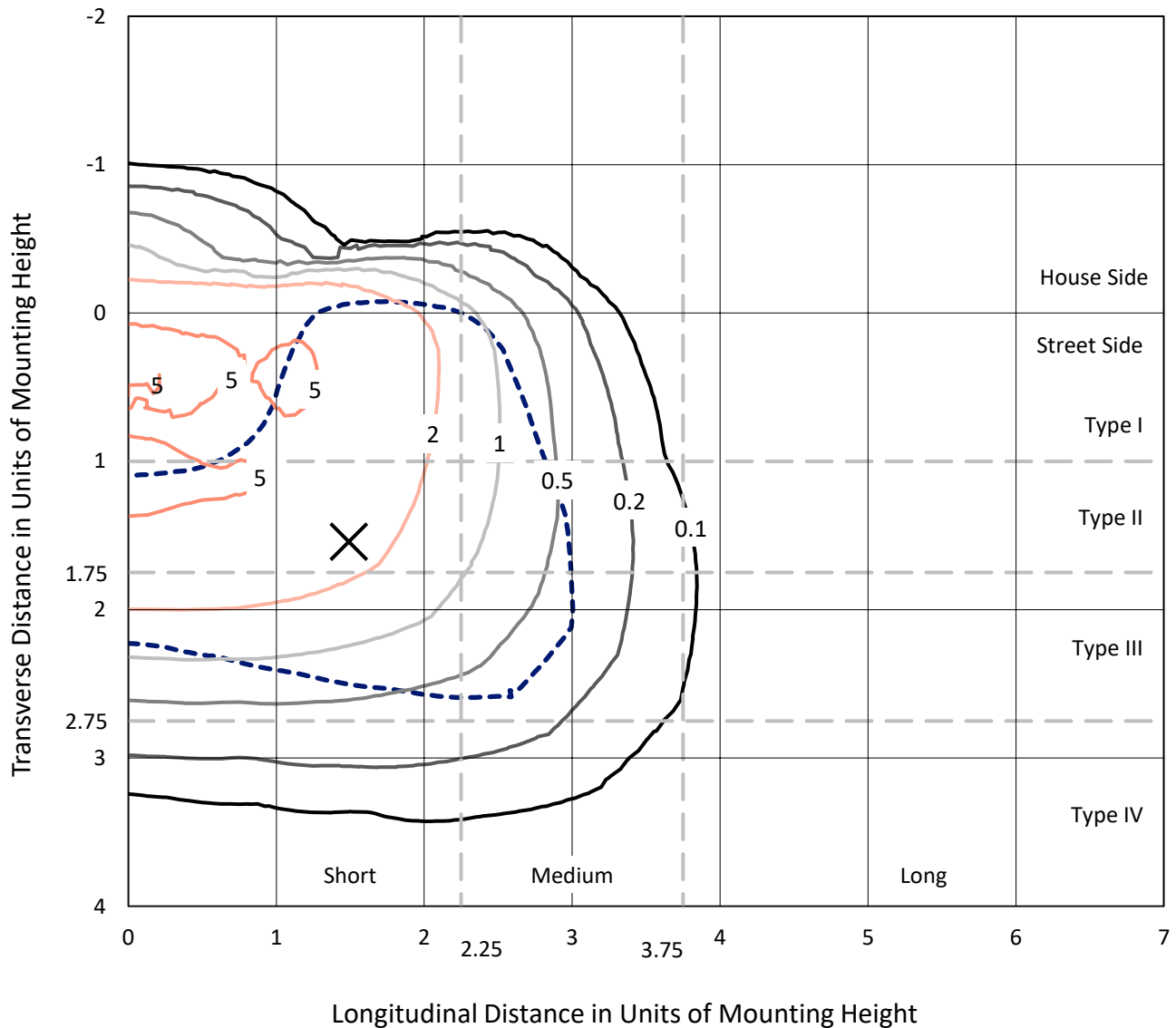
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

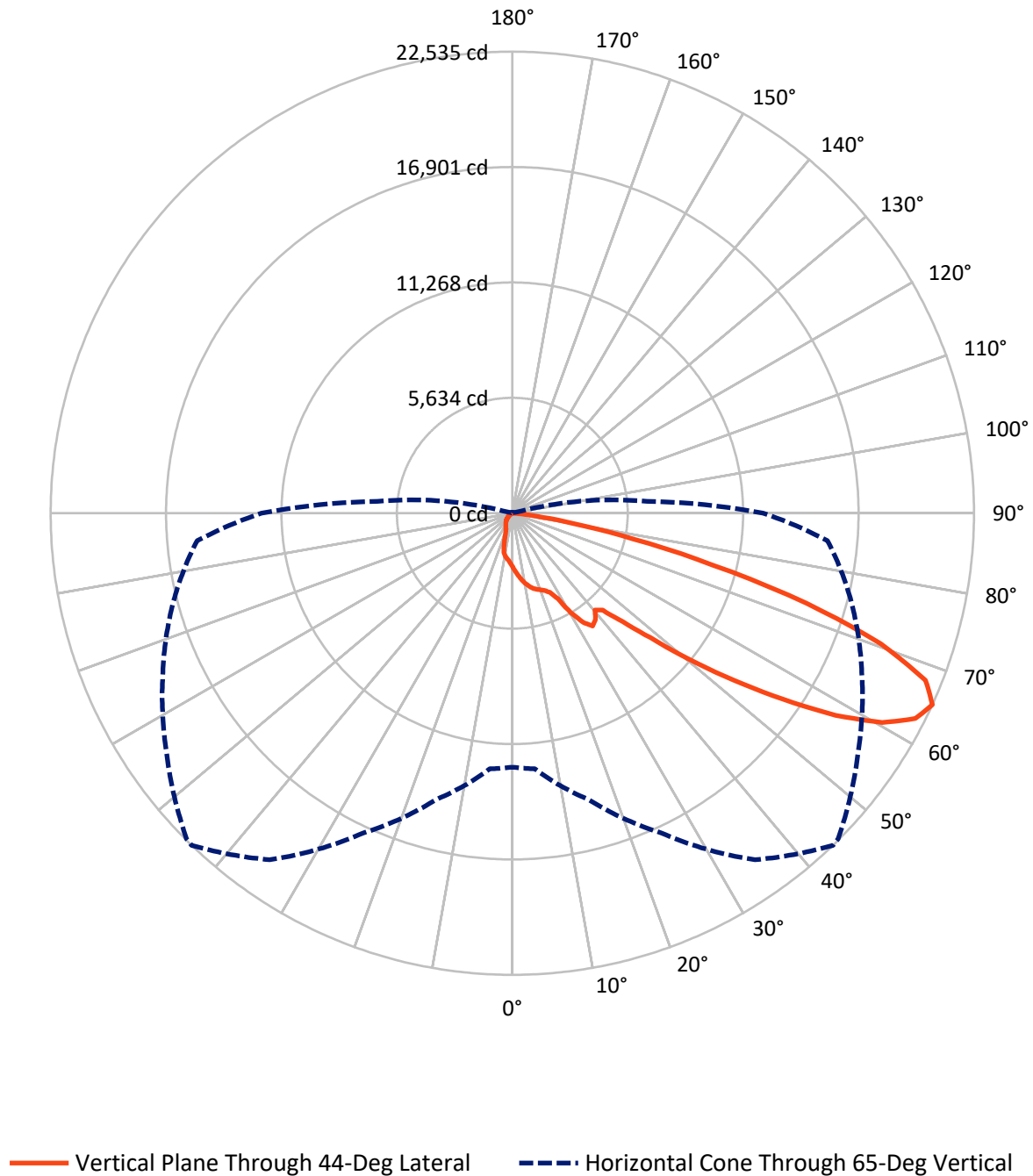
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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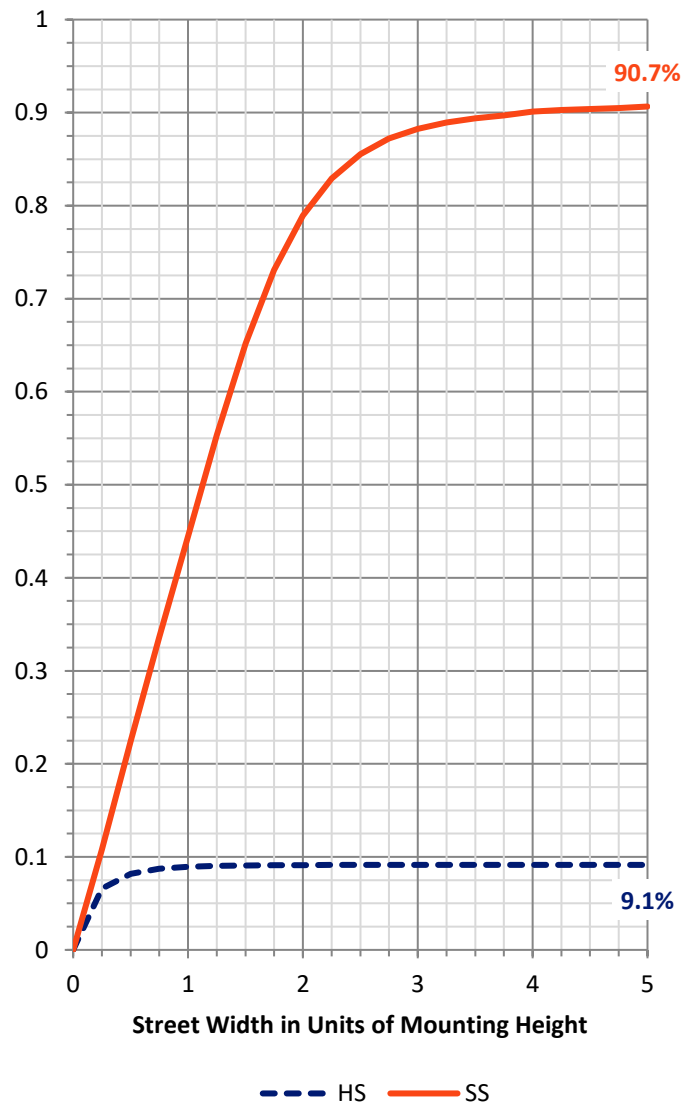
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2593.5	0.0	2593.5
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	25555.5	0.0	25555.5
	% Fixture	90.8	0.0	90.8
Total	Lumens	28149.0	0.0	28149.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.6	0.9
10°-20°	784.2	2.8
20°-30°	1329.8	4.7
30°-40°	2211.0	7.9
40°-50°	3860.4	13.7
50°-60°	7541.8	26.8
60°-70°	8750.3	31.1
70°-80°	3186.4	11.3
80°-90°	224.5	0.8
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°	28149.0	100.0
0°-180°	28149.0	100.0

Coefficient of Utilization



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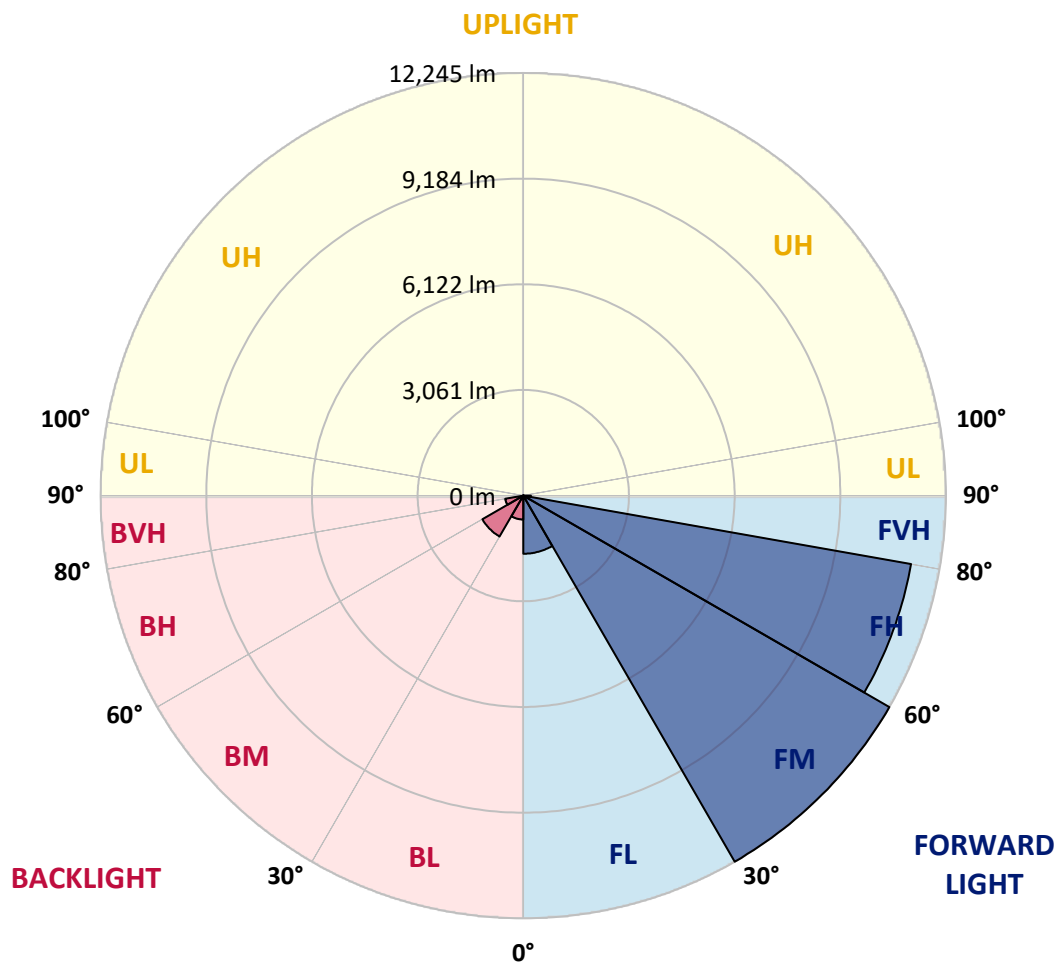
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1683.6	6.0			
FM	(30°-60°)	12244.9	43.5			
FH	(60°-80°)	11405.6	40.5			G4/12000
FVH	(80°-90°)	221.5	0.8			G2/225
BL	(0°-30°)	691.0	2.5	B2/1000		
BM	(30°-60°)	1368.3	4.9	B2/2500		
BH	(60°-80°)	531.1	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.1	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8
2.5°	2948.9	2936.0	2929.6	2895.2	2869.3	2837.1	2837.1	2796.2	2748.9	2697.3	2649.9
5°	3278.0	3256.5	3228.5	3198.4	3138.2	3052.2	3052.2	2966.1	2867.2	2779.0	2682.2
7.5°	3594.2	3574.8	3527.5	3469.4	3370.5	3280.2	3273.7	3149.0	3030.7	2897.3	2759.6
10°	3871.7	3856.6	3815.7	3703.9	3600.7	3482.4	3480.2	3340.4	3202.7	3039.3	2869.3
12.5°	4065.3	4067.4	4013.6	3906.1	3772.7	3660.9	3652.3	3514.6	3370.5	3194.1	2985.5
15°	4202.9	4202.9	4147.0	4026.5	3906.1	3807.1	3798.5	3678.1	3529.7	3338.2	3112.4
17.5°	4241.6	4254.5	4194.3	4086.8	3990.0	3903.9	3901.8	3800.7	3682.4	3497.4	3241.5
20°	4226.6	4239.5	4192.2	4108.3	4041.6	3992.1	3985.7	3944.8	3835.1	3660.9	3379.1
22.5°	4194.3	4207.2	4172.8	4123.3	4091.1	4106.1	4095.4	4129.8	4071.7	3860.9	3542.6
25°	4200.8	4213.7	4187.9	4159.9	4187.9	4280.4	4308.3	4456.7	4405.1	4114.7	3719.0
27.5°	4403.0	4428.8	4392.2	4405.1	4504.0	4719.1	4772.9	5028.9	4800.9	4437.4	3994.3
30°	4852.5	4835.3	4766.5	4828.8	5173.0	5629.0	5613.9	5573.1	5216.0	4809.5	4321.2
32.5°	5261.2	5246.1	5241.8	5510.7	6134.5	6356.0	6345.2	5949.5	5588.1	5235.4	4643.9
35°	5426.8	5368.7	5355.8	6007.5	7050.7	6758.2	6691.5	6104.3	6039.8	5700.0	4972.9
37.5°	5925.8	5884.9	5684.9	6089.3	6685.1	6588.3	6536.7	6371.1	6521.6	6110.8	5345.1
40°	6954.0	6840.0	6659.3	6263.5	6166.7	6207.6	6259.2	6713.1	7091.6	6672.2	5841.9
42.5°	8231.6	8205.8	7870.3	7132.5	6407.6	6463.5	6530.2	7427.2	7911.1	7517.5	6652.8
45°	9765.2	9801.8	9317.8	8446.7	7496.0	7543.3	7640.1	8481.1	9021.0	8831.7	7928.3
47.5°	11159.0	11131.1	10967.6	10062.0	9184.5	9079.1	9236.1	9834.1	10556.8	10586.9	9511.4
50°	12561.4	12709.8	12466.8	12111.9	11460.2	11238.6	11180.5	11473.1	12574.3	12430.2	11412.8
52.5°	14576.9	14654.3	14198.3	14107.9	14256.4	13538.0	13479.9	13550.9	14536.0	14041.3	12836.7
55°	15843.7	15798.6	15628.7	16334.2	16921.4	16024.4	15951.3	15665.2	16164.2	15179.1	14206.9
57.5°	16243.8	16308.3	16704.1	17979.6	19369.1	18607.7	18474.3	17661.3	17338.6	16239.5	15467.3
60°	16065.3	16183.6	17037.5	18934.6	20861.9	20747.9	20633.9	19268.0	18181.8	17125.7	16351.4
62.5°	14794.1	14959.7	16325.6	18764.7	21367.3	22079.3	21937.3	20270.4	18743.2	17555.9	16506.2
65°	12398.0	12520.6	14482.2	17222.5	20648.9	22535.3	22483.7	20584.4	18831.4	17162.3	15445.8
67.5°	8838.2	9255.5	11073.0	14514.5	18523.8	21756.7	21844.8	20208.0	18003.3	15460.9	12791.6
70°	5555.9	5839.8	7143.2	10391.1	14850.0	19087.4	19377.7	18485.1	15624.4	12051.7	8562.9
72.5°	2649.9	2860.7	3789.9	6577.5	10481.5	15017.8	15247.9	15174.8	12081.8	7592.8	4418.0
75°	1180.9	1260.4	1808.9	3357.6	6766.8	10094.3	10690.1	10789.1	7549.8	3714.7	1718.6
77.5°	602.3	604.4	847.5	1626.1	3379.1	6022.6	6140.9	6487.2	4093.2	1636.9	598.0
80°	320.5	342.0	449.5	767.9	1753.0	2966.1	2951.1	3243.6	1815.4	802.3	200.0
82.5°	144.1	159.2	253.8	402.2	856.1	1124.9	1213.1	1327.1	778.6	511.9	88.2
85°	43.0	51.6	124.8	202.2	309.7	324.8	363.5	468.9	440.9	363.5	45.2
87.5°	6.5	6.5	51.6	55.9	45.2	58.1	60.2	66.7	142.0	133.4	23.7
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°	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8	2619.8
2.5°	2624.1	2609.1	2555.3	2510.1	2471.4	2447.8	2419.8	2402.6	2394.0	2387.5	2389.7
5°	2634.9	2598.3	2505.8	2432.7	2376.8	2316.6	2275.7	2252.0	2241.3	2224.1	2224.1
7.5°	2695.1	2637.0	2508.0	2396.1	2299.3	2217.6	2140.2	2112.2	2092.9	2088.6	2084.3
10°	2781.2	2708.0	2531.6	2376.8	2239.1	2127.3	2017.6	1920.8	1845.5	1800.3	1793.9
12.5°	2888.7	2783.3	2568.2	2363.9	2187.5	1989.6	1699.2	1503.5	1372.3	1331.4	1337.9
15°	2987.6	2873.6	2604.8	2353.1	2092.9	1649.8	1320.7	1097.0	1030.3	1023.8	1026.0
17.5°	3105.9	2970.4	2647.8	2338.1	1832.6	1260.4	980.8	920.6	933.5	955.0	952.9
20°	3228.5	3073.7	2699.4	2247.7	1462.6	948.6	866.8	873.3	892.6	912.0	916.3
22.5°	3359.8	3192.0	2759.6	2030.5	1116.3	826.0	821.7	830.3	849.6	871.1	875.4
25°	3540.4	3340.4	2804.8	1746.6	845.3	763.6	772.2	787.2	804.4	828.1	832.4
27.5°	3772.7	3540.4	2828.5	1376.6	731.3	707.7	709.8	731.3	752.8	774.3	774.3
30°	4073.9	3779.2	2781.2	1041.0	675.4	653.9	645.3	658.2	686.1	707.7	709.8
32.5°	4342.7	4005.0	2656.4	795.8	634.5	604.4	582.9	585.1	595.8	608.7	610.9
35°	4611.6	4224.4	2443.5	668.9	591.5	557.1	524.8	507.6	499.0	492.6	499.0
37.5°	4955.7	4497.6	2159.5	608.7	554.9	511.9	466.8	430.2	400.1	380.7	385.0
40°	5398.8	4876.2	1824.0	570.0	520.5	468.9	408.7	361.4	309.7	292.5	283.9
42.5°	6130.1	5450.5	1471.2	537.7	486.1	423.7	348.5	283.9	236.6	219.4	223.7
45°	7285.2	6175.3	1133.5	503.3	451.7	374.3	292.5	223.7	185.0	176.4	180.7
47.5°	8816.7	7113.1	873.3	464.6	408.7	320.5	230.1	176.4	152.7	150.6	148.4
50°	10257.8	7986.4	729.2	421.6	357.1	266.7	189.3	148.4	133.4	131.2	131.2
52.5°	11561.2	8612.3	593.7	372.1	301.1	219.4	159.2	131.2	118.3	111.8	111.8
55°	12720.6	9021.0	481.8	311.9	236.6	174.2	137.7	118.3	103.2	94.6	92.5
57.5°	13596.0	9070.5	361.4	249.5	176.4	135.5	118.3	103.2	86.0	75.3	71.0
60°	13970.3	8642.4	266.7	189.3	131.2	107.5	94.6	83.9	64.5	53.8	51.6
62.5°	13593.9	7810.0	197.9	144.1	101.1	79.6	66.7	62.4	45.2	32.3	30.1
65°	12245.2	6607.7	157.0	109.7	75.3	58.1	43.0	40.9	28.0	15.1	12.9
67.5°	9810.4	5175.1	124.8	81.7	53.8	38.7	28.0	25.8	15.1	4.3	4.3
70°	6379.7	3308.1	101.1	60.2	34.4	25.8	17.2	12.9	8.6	2.2	0.0
72.5°	3155.4	1546.5	81.7	47.3	23.7	12.9	6.5	4.3	6.5	0.0	0.0
75°	1223.9	550.6	60.2	32.3	12.9	6.5	4.3	0.0	2.2	0.0	0.0
77.5°	406.5	182.8	36.6	17.2	8.6	4.3	0.0	0.0	0.0	0.0	0.0
80°	150.6	71.0	19.4	10.8	4.3	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	60.2	28.0	12.9	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.1	17.2	8.6	6.5	4.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.5	12.9	8.6	6.5	4.3	2.2	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)