

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: STREETWORKS

Report Number: P323456

Luminaire Tested: **GAN-SA2D-727-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323456
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA 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: 11343 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

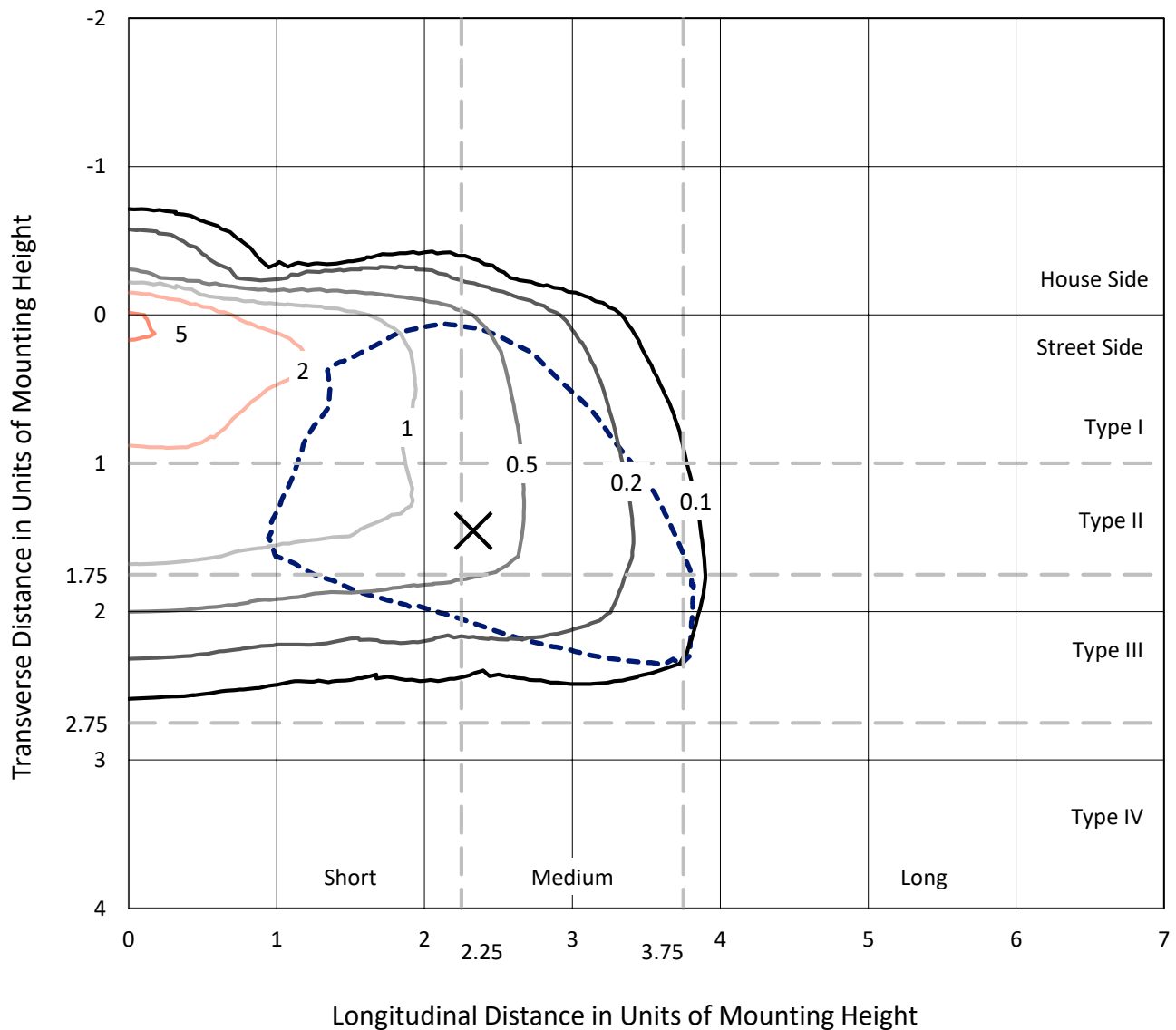
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

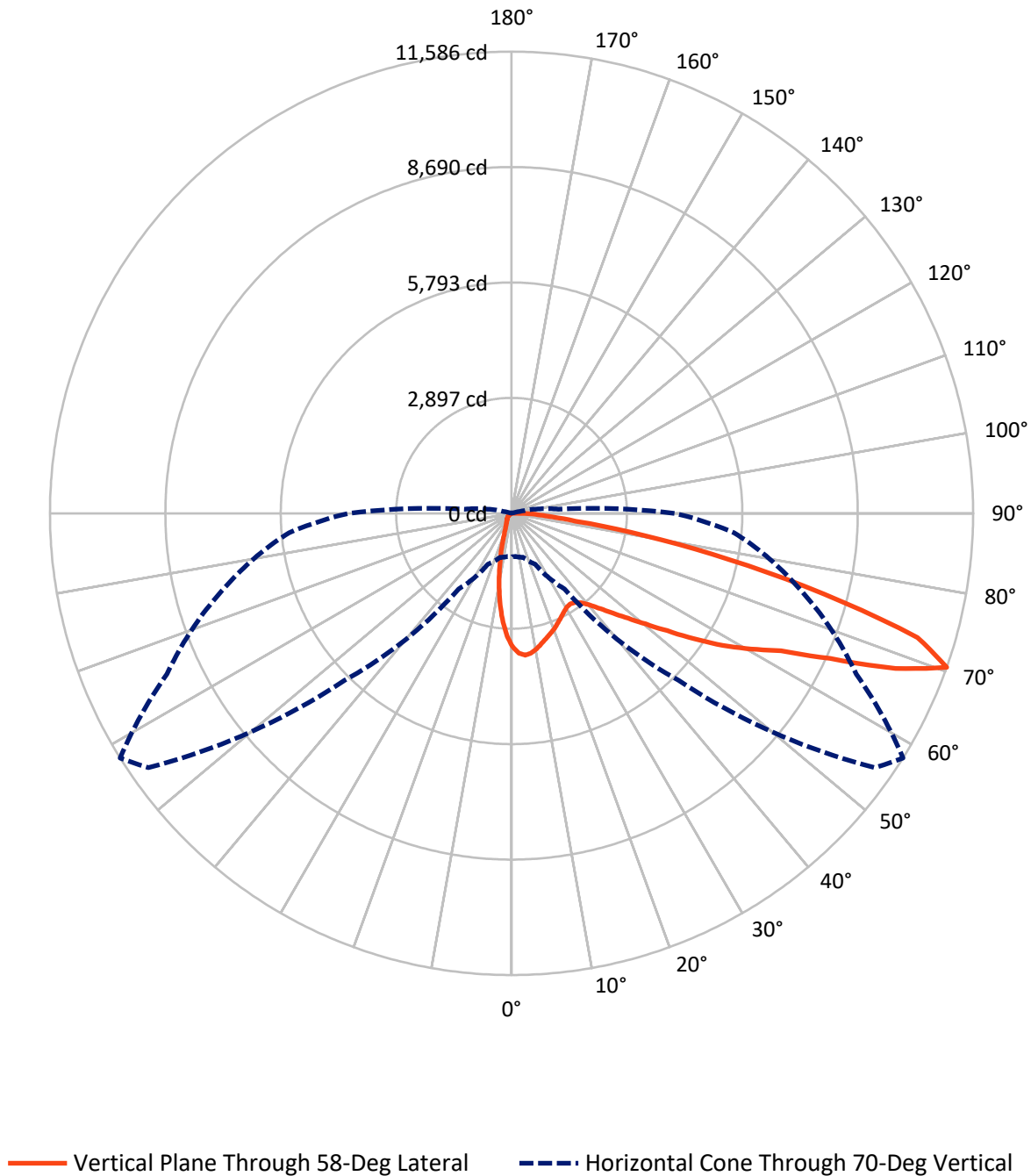
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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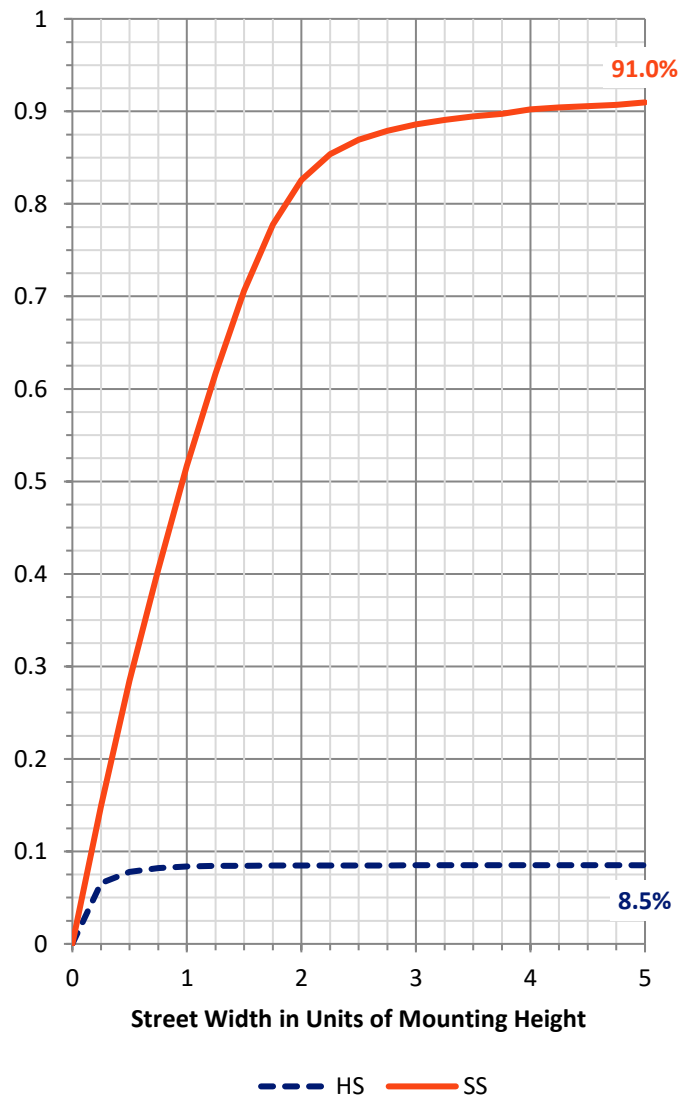
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	970.7	0.0	970.7
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	10372.3	0.0	10372.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	11343.0	0.0	11343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.0	2.4
10°-20°	575.1	5.1
20°-30°	756.0	6.7
30°-40°	1001.2	8.8
40°-50°	1496.6	13.2
50°-60°	2397.4	21.1
60°-70°	3021.9	26.6
70°-80°	1630.0	14.4
80°-90°	190.8	1.7
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°	11343.0	100.0
0°-180°	11343.0	100.0

Coefficient of Utilization



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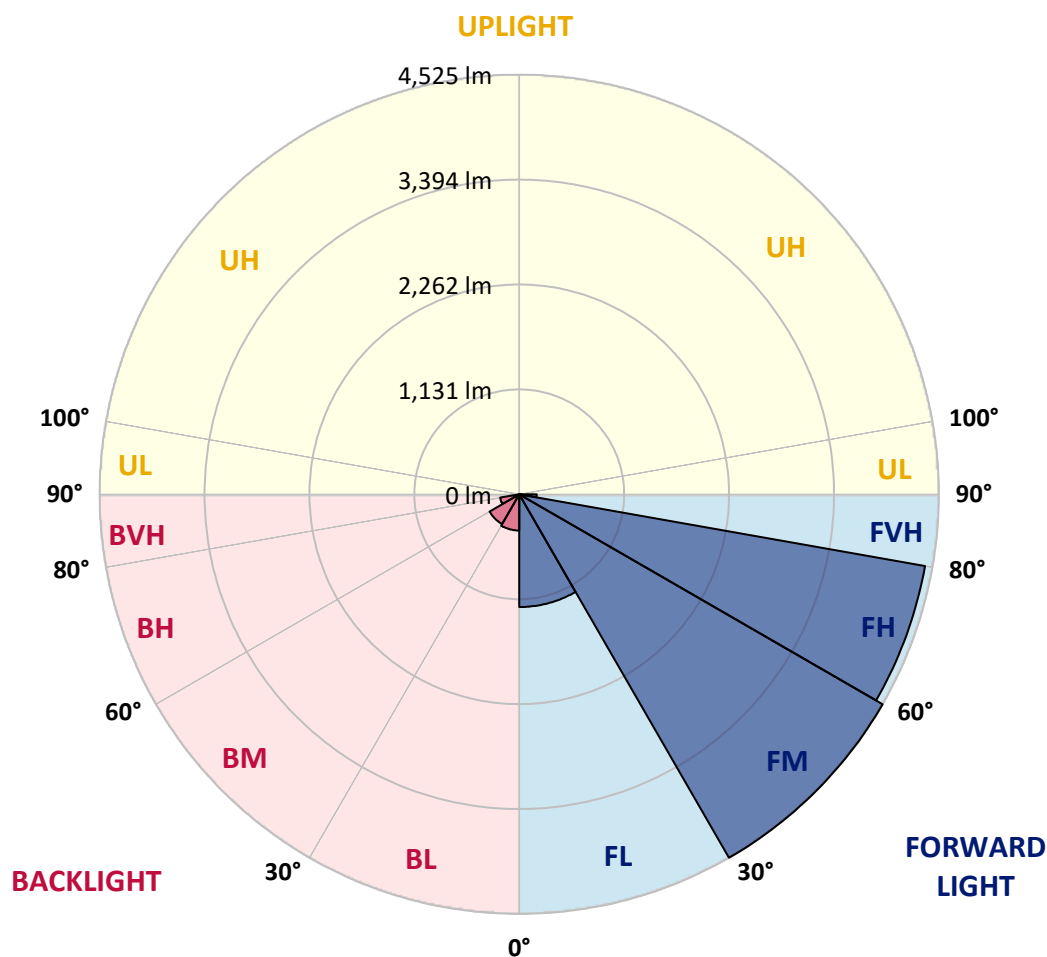
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1215.1	10.7			
FM	(30°-60°)	4524.9	39.9			
FH	(60°-80°)	4443.2	39.2			G2/5000
FVH	(80°-90°)	189.2	1.7			G2/225
BL	(0°-30°)	390.0	3.4	B1/500		
BM	(30°-60°)	370.3	3.3	B1/1000		
BH	(60°-80°)	208.8	1.8	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3628.5	3619.5	3616.2	3610.6	3588.9	3567.6	3525.7	3513.9	3487.4	3424.7	3358.2
5°	3631.3	3630.8	3640.7	3638.4	3630.8	3620.9	3590.7	3575.2	3530.4	3440.8	3319.1
7.5°	3456.3	3465.3	3487.4	3505.4	3526.1	3553.0	3556.8	3541.7	3504.9	3408.2	3246.9
10°	3221.4	3235.6	3266.7	3302.1	3356.3	3410.1	3458.2	3456.3	3443.6	3348.3	3160.1
12.5°	2986.1	3002.6	3038.4	3090.8	3167.7	3255.4	3341.2	3353.0	3374.3	3294.5	3079.9
15°	2780.0	2794.1	2829.5	2893.6	2988.9	3106.8	3232.8	3254.4	3309.2	3252.6	3013.0
17.5°	2605.0	2613.9	2639.9	2711.1	2821.5	2964.4	3128.0	3170.5	3252.1	3219.5	2954.9
20°	2482.8	2484.2	2501.2	2551.2	2661.6	2821.5	3019.6	3080.4	3191.7	3191.2	2895.0
22.5°	2422.4	2417.7	2421.0	2449.8	2530.9	2685.2	2911.1	2983.2	3137.5	3167.2	2834.2
25°	2411.1	2407.3	2397.9	2401.7	2450.7	2565.8	2801.7	2885.1	3089.8	3152.6	2781.4
27.5°	2446.5	2450.3	2434.2	2417.3	2421.0	2488.5	2704.5	2801.2	3051.2	3152.6	2744.1
30°	2517.7	2519.6	2507.8	2485.6	2455.9	2466.8	2637.0	2733.7	3031.8	3174.3	2720.5
32.5°	2596.5	2606.9	2605.4	2587.5	2545.1	2501.2	2621.0	2709.2	3030.4	3222.4	2718.2
35°	2694.1	2705.9	2725.7	2721.9	2677.6	2605.4	2675.7	2745.1	3058.2	3301.6	2743.6
37.5°	2797.9	2815.8	2858.3	2878.5	2849.8	2768.2	2798.4	2847.9	3132.8	3429.9	2808.3
40°	2898.3	2918.6	2996.0	3075.7	3054.0	2970.0	2984.2	3023.8	3265.3	3614.3	2930.9
42.5°	2996.9	3027.1	3140.8	3271.9	3297.8	3230.9	3238.4	3270.0	3462.0	3868.1	3131.3
45°	3114.8	3148.8	3317.2	3479.0	3548.3	3519.1	3551.1	3571.9	3719.0	4203.4	3401.6
47.5°	3287.9	3327.1	3533.7	3718.1	3839.8	3858.6	3923.3	3936.9	4044.0	4594.0	3753.9
50°	3625.6	3636.5	3823.3	3990.7	4166.2	4279.4	4352.9	4363.3	4437.4	5020.8	4194.0
52.5°	4050.6	4057.7	4163.3	4275.6	4475.1	4706.2	4878.4	4893.0	4908.6	5436.8	4628.4
55°	4472.7	4471.8	4541.6	4607.6	4835.9	5171.7	5545.3	5554.3	5442.5	5831.6	4960.4
57.5°	4736.4	4761.9	4868.0	4952.9	5271.7	5702.4	6220.7	6253.7	6003.3	6124.0	5288.7
60°	4652.4	4664.7	4900.1	5214.2	5814.6	6456.5	6904.2	6912.6	6424.9	6416.0	5703.8
62.5°	3963.8	3970.4	4340.2	4987.8	6089.6	7434.8	7728.6	7590.4	6909.8	6821.1	6200.4
65°	2716.8	2759.7	3068.6	3869.0	5584.4	8048.4	9004.9	8776.2	7648.9	7405.1	6649.5
67.5°	1599.9	1590.9	1743.7	2333.3	4101.6	7640.9	10619.4	10392.1	8656.8	7796.1	6517.9
70°	1092.8	1086.7	1145.2	1412.6	2315.4	5927.3	11127.4	11586.3	9546.9	7532.9	5609.4
72.5°	780.1	783.4	869.7	1097.6	1453.7	3453.5	9569.0	10655.3	9268.1	6566.9	4263.8
75°	529.7	538.6	662.2	900.4	1274.4	1756.9	6790.5	8099.8	7547.0	4772.7	2450.7
77.5°	284.9	294.8	440.5	725.4	1152.3	1220.7	4368.0	5574.5	4740.6	2145.6	710.3
80°	118.9	124.5	206.1	527.3	995.7	1072.1	2570.1	3380.4	2020.1	423.1	158.5
82.5°	51.4	54.2	85.8	314.6	744.3	905.1	1360.7	1626.3	612.2	92.9	79.7
85°	9.9	10.4	35.4	166.5	475.0	510.8	882.0	864.6	275.0	40.1	58.0
87.5°	0.0	0.0	8.5	52.4	139.6	278.3	538.2	531.6	93.4	19.3	21.7
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°	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7	3350.7
2.5°	3324.3	3291.7	3223.3	3138.9	3074.3	3003.1	2946.5	2874.8	2843.6	2845.0	2828.1
5°	3249.7	3182.8	3031.4	2840.3	2693.2	2541.3	2410.7	2280.5	2203.6	2178.6	2155.0
7.5°	3143.1	3037.0	2795.5	2501.2	2252.2	2008.8	1797.0	1610.7	1492.8	1435.3	1414.0
10°	3022.9	2873.8	2524.3	2136.6	1781.0	1451.8	1177.3	938.6	843.3	778.7	762.2
12.5°	2917.2	2715.3	2259.2	1762.6	1340.5	943.3	681.5	533.0	468.4	442.9	438.6
15°	2817.7	2567.2	2004.1	1423.9	928.2	580.6	433.5	383.0	367.9	363.6	363.6
17.5°	2723.8	2426.2	1754.6	1090.5	614.1	407.0	358.9	347.6	342.9	342.4	342.9
20°	2625.7	2285.2	1509.3	799.0	428.7	344.8	331.6	325.4	324.0	324.0	324.0
22.5°	2531.9	2144.2	1270.7	570.7	343.8	314.6	308.0	303.7	302.3	301.9	300.9
25°	2441.8	2010.2	1037.7	403.3	301.9	288.2	282.5	276.9	272.6	270.3	268.8
27.5°	2367.7	1890.9	820.7	323.6	272.6	260.8	253.8	245.3	234.9	230.2	228.3
30°	2308.8	1781.9	632.5	273.1	245.3	233.5	222.6	208.0	192.9	184.9	184.4
32.5°	2262.6	1674.9	480.1	241.5	220.7	206.1	190.6	172.2	154.7	145.7	145.3
35°	2239.9	1580.5	367.0	218.4	199.0	180.6	161.3	141.0	124.0	115.6	114.6
37.5°	2255.0	1500.8	286.3	199.0	180.6	159.4	136.8	115.6	100.5	92.9	92.4
40°	2310.2	1449.9	232.5	182.5	165.1	139.1	114.6	94.8	82.1	75.9	75.5
42.5°	2427.6	1431.0	198.6	168.9	150.0	120.3	95.3	78.3	66.5	62.3	61.3
45°	2623.8	1458.8	175.5	155.6	134.4	102.4	78.8	64.1	53.8	50.5	50.0
47.5°	2885.1	1531.9	158.9	142.9	120.3	86.3	65.6	51.9	43.9	40.6	40.1
50°	3221.9	1648.0	145.3	130.2	107.1	73.1	54.2	41.0	34.0	31.6	31.6
52.5°	3588.4	1786.2	133.0	118.4	93.9	60.8	43.9	31.6	26.9	24.1	24.1
55°	3891.2	1906.9	119.8	109.4	77.8	50.5	33.5	24.1	19.8	18.4	18.4
57.5°	4193.5	2035.7	104.7	93.9	62.3	41.0	25.5	17.9	14.6	13.7	13.7
60°	4585.5	2193.2	90.1	76.4	49.1	31.1	18.9	12.7	10.8	10.4	10.4
62.5°	5016.6	2285.7	76.9	61.3	38.2	23.1	13.7	8.5	8.0	8.0	7.5
65°	5280.2	2155.0	64.6	49.1	29.7	17.5	9.0	6.1	7.1	6.6	5.7
67.5°	4943.9	1687.1	52.8	38.2	23.1	13.2	5.7	4.2	7.5	6.1	4.7
70°	4093.5	1181.0	41.0	26.9	18.4	11.3	3.8	2.8	8.0	6.1	3.8
72.5°	3063.4	790.5	32.5	17.9	13.7	9.9	3.3	1.4	7.1	5.2	3.3
75°	1673.9	318.4	25.9	11.3	8.5	7.1	2.4	0.9	4.7	3.8	2.4
77.5°	440.5	84.0	18.9	7.5	4.7	2.8	1.4	0.5	2.4	1.9	0.9
80°	112.3	32.5	12.3	5.2	3.3	1.4	0.0	0.0	0.5	0.0	0.0
82.5°	59.9	13.7	7.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	45.3	9.0	4.2	2.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.5	2.8	1.4	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)