

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: P318968

Luminaire Tested: **GAN-SA4C-727-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23695 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

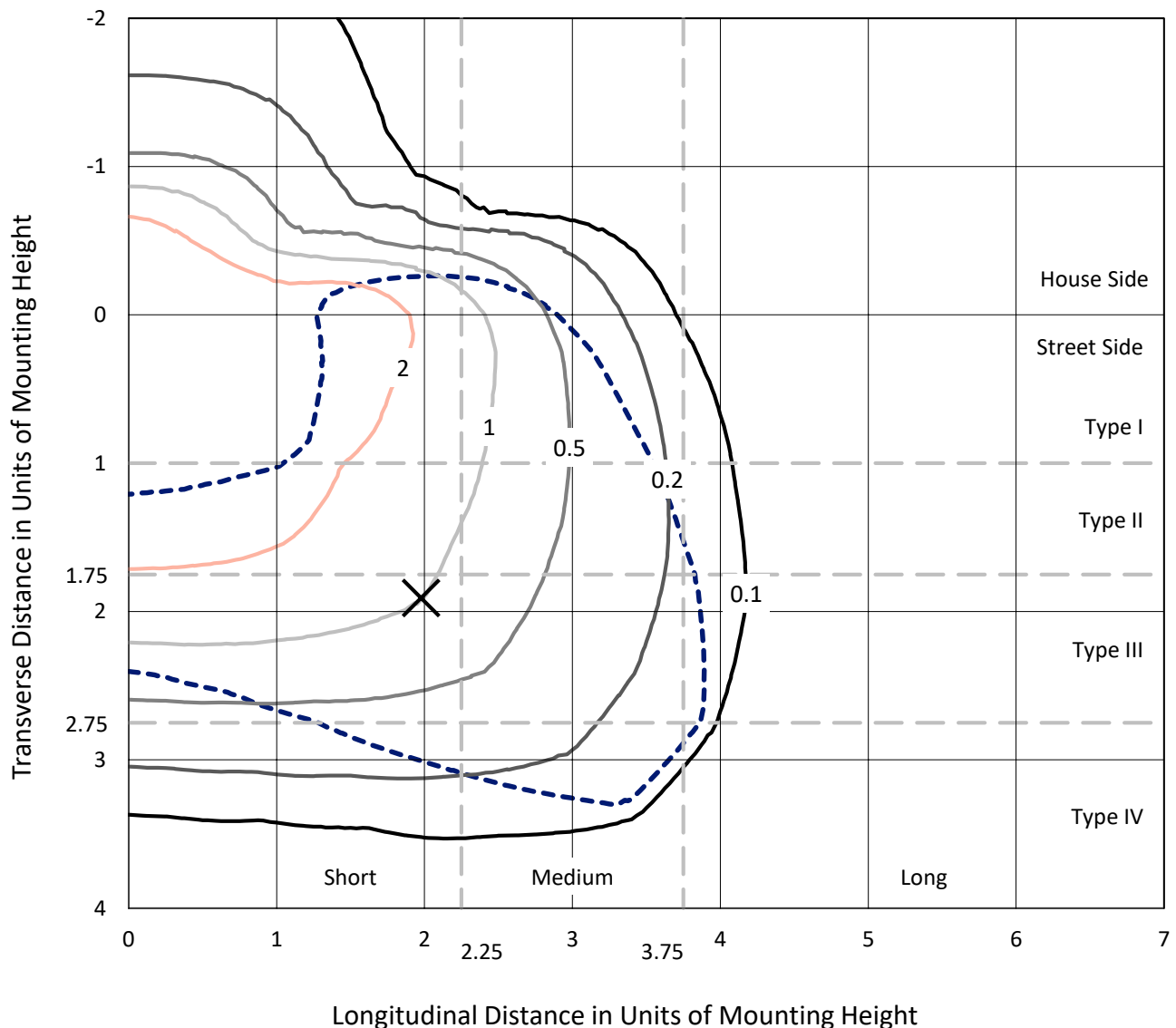
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

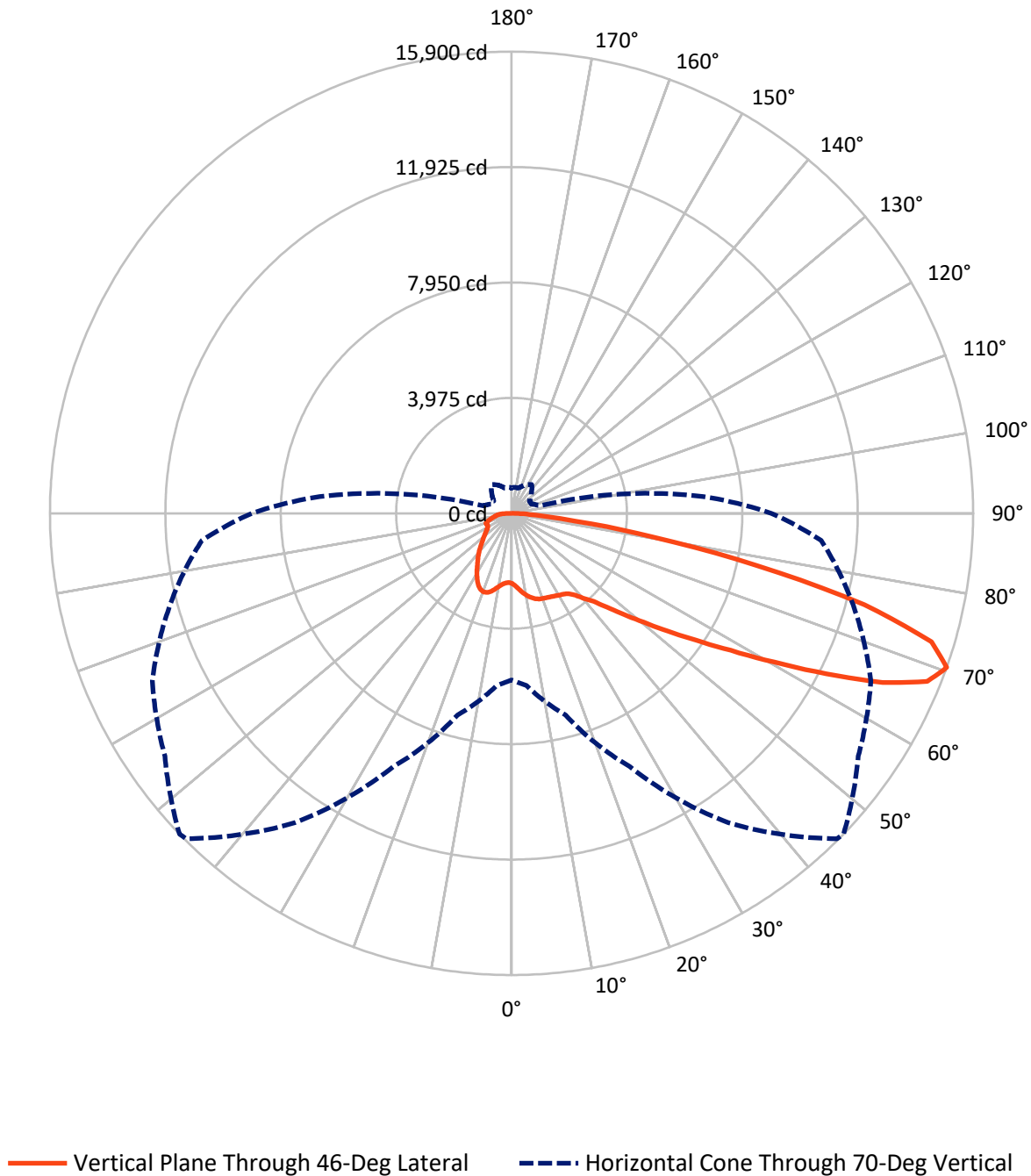
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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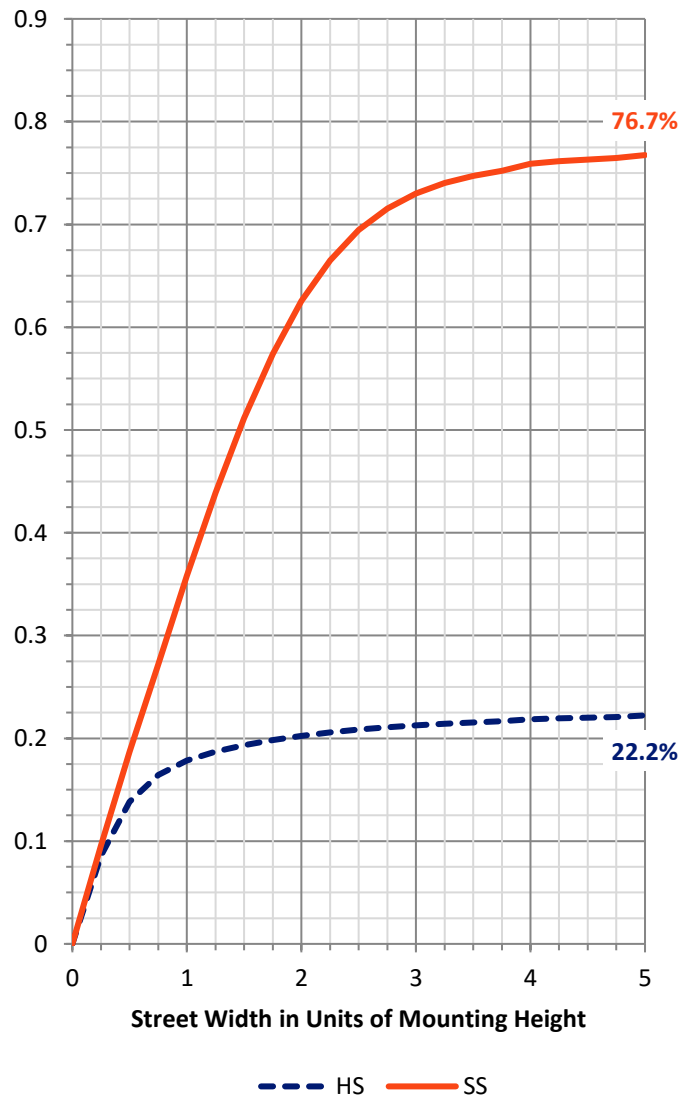
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5430.8	0.0	5430.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	18264.2	0.0	18264.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	23695.0	0.0	23695.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.1	1.0
10°-20°	819.9	3.5
20°-30°	1367.1	5.8
30°-40°	1940.0	8.2
40°-50°	2853.7	12.0
50°-60°	4832.7	20.4
60°-70°	6859.9	29.0
70°-80°	4167.4	17.6
80°-90°	608.2	2.6
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°	23695.0	100.0
0°-180°	23695.0	100.0

Coefficient of Utilization



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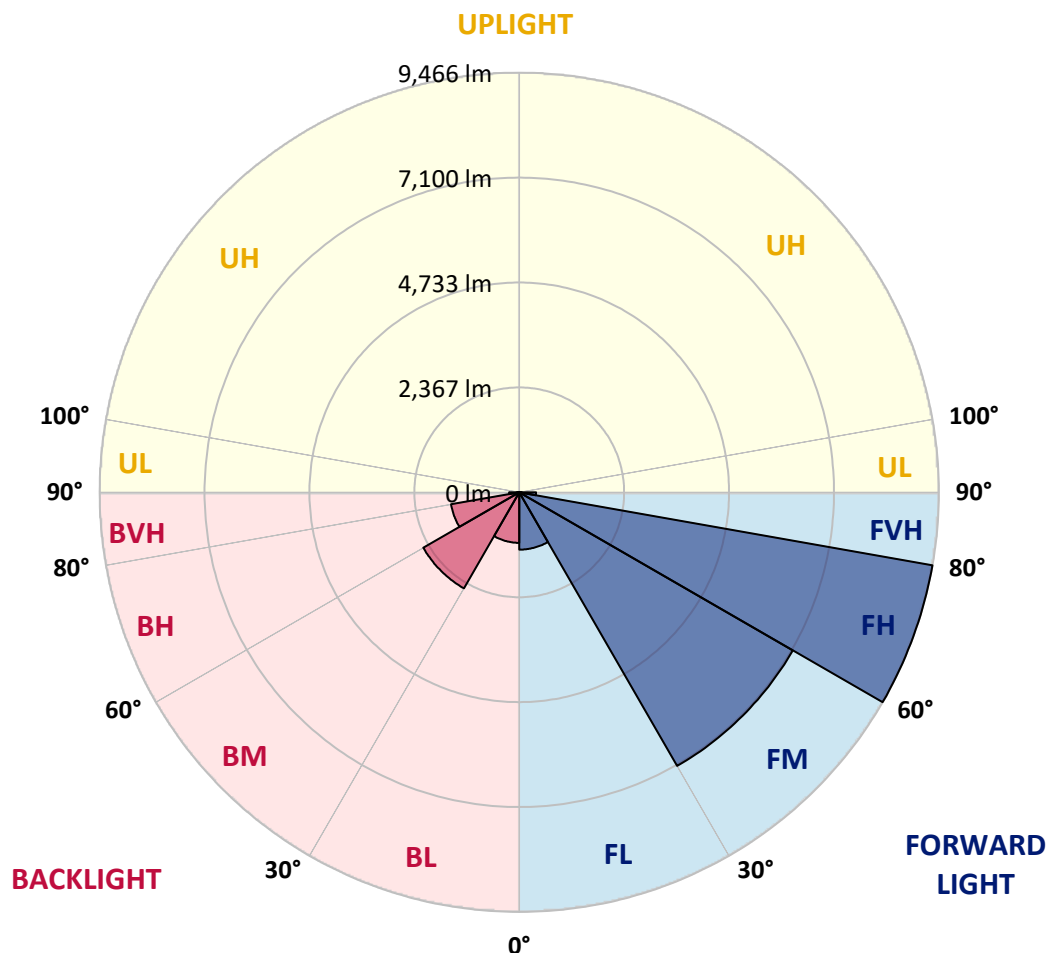
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1292.9	5.5			
FM	(30°-60°)	7126.4	30.1			
FH	(60°-80°)	9466.0	39.9			G4/12000
FVH	(80°-90°)	378.9	1.6			G3/500
BL	(0°-30°)	1140.2	4.8	B3/2500		
BM	(30°-60°)	2500.0	10.6	B2/2500		
BH	(60°-80°)	1561.3	6.6	B3/2500		G3/2500
BVH	(80°-90°)	229.3	1.0			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1
2.5°	2534.9	2536.5	2539.7	2531.6	2508.9	2502.4	2500.0	2476.5	2461.1	2438.4	2418.9
5°	2737.6	2739.2	2734.4	2711.7	2661.4	2624.1	2620.8	2567.3	2518.7	2466.8	2427.8
7.5°	2949.3	2951.7	2936.3	2893.3	2822.8	2757.9	2753.8	2680.8	2607.1	2528.4	2470.0
10°	3136.6	3126.8	3101.7	3041.7	2958.2	2878.7	2875.5	2799.2	2714.1	2619.2	2541.4
12.5°	3261.4	3253.3	3220.9	3147.9	3056.3	2983.3	2976.8	2906.3	2823.6	2719.8	2626.5
15°	3330.4	3336.1	3292.3	3209.6	3120.4	3058.7	3053.0	3002.8	2929.0	2824.4	2717.3
17.5°	3339.3	3344.2	3302.0	3220.1	3147.1	3104.9	3102.5	3069.3	3015.7	2915.2	2803.3
20°	3287.4	3290.6	3255.8	3188.5	3140.6	3127.7	3126.8	3112.2	3072.5	2983.3	2874.6
22.5°	3212.0	3214.4	3189.3	3140.6	3124.4	3144.7	3150.4	3144.7	3116.3	3032.8	2930.6
25°	3193.3	3191.7	3165.8	3116.3	3130.1	3173.1	3180.4	3182.8	3163.3	3090.3	3002.0
27.5°	3283.3	3277.7	3228.2	3148.7	3157.7	3209.6	3219.3	3242.8	3230.6	3166.6	3083.1
30°	3543.6	3533.9	3432.6	3272.0	3228.2	3255.0	3267.1	3304.4	3306.9	3253.3	3190.9
32.5°	3983.2	3971.0	3789.3	3502.3	3347.4	3301.2	3312.5	3368.5	3398.5	3357.1	3289.8
35°	4538.6	4524.8	4286.4	3894.0	3546.9	3389.6	3397.7	3442.3	3502.3	3443.9	3354.7
37.5°	5117.6	5084.4	4854.9	4354.5	3864.0	3578.5	3578.5	3584.2	3612.6	3490.9	3430.9
40°	5693.3	5660.1	5452.5	4896.2	4274.3	3876.1	3857.5	3731.8	3709.1	3604.5	3584.2
42.5°	6228.5	6218.8	6096.4	5508.5	4755.9	4168.8	4142.9	3929.6	3934.5	3869.6	3870.4
45°	6797.8	6797.8	6698.1	6126.4	5317.1	4639.2	4613.2	4299.4	4348.1	4318.1	4390.2
47.5°	7262.4	7277.0	7263.3	6770.2	5969.9	5236.8	5189.8	4811.9	4948.1	5051.1	5261.1
50°	7736.8	7759.5	7762.0	7476.5	6758.9	5947.2	5893.6	5492.2	5796.3	6091.5	6504.2
52.5°	8425.3	8476.4	8272.8	8181.2	7725.5	6790.5	6737.8	6367.2	6874.8	7289.2	8000.4
55°	9063.5	9018.9	8873.7	8930.5	8760.2	7750.6	7710.9	7385.7	8076.6	8615.0	9538.6
57.5°	9408.9	9405.7	9551.6	9794.9	9876.0	8934.5	8901.3	8585.0	9431.6	9836.2	10982.9
60°	9814.4	9820.0	10181.7	10733.9	11068.0	10408.7	10394.1	10154.1	10747.7	10976.4	12115.7
62.5°	9871.1	9973.3	10596.1	11546.4	12183.8	12131.1	12163.5	11567.5	11925.1	11886.2	12961.5
65°	9218.3	9352.9	10480.1	11792.1	13293.1	14014.8	14044.8	12989.0	12853.6	12663.9	13263.9
67.5°	7880.4	8079.8	9304.3	11257.8	13658.8	15407.1	15449.3	14091.1	13624.0	12927.4	12535.7
70°	5734.7	5956.1	7188.7	9614.9	13006.9	15852.3	15900.2	14578.4	13653.2	12177.3	10701.5
72.5°	3464.2	3637.7	4653.8	7078.4	10978.0	15041.4	15126.6	13960.5	12465.2	10314.7	7902.2
75°	1521.3	1634.8	2250.3	4078.8	7859.3	12444.9	12551.1	11949.5	10128.2	7496.0	4670.8
77.5°	647.9	680.3	922.8	1771.8	4442.9	8503.9	8649.9	8731.0	6871.6	4078.8	1973.7
80°	403.8	416.8	522.2	802.0	2079.2	4776.2	4933.5	5137.1	3412.3	1499.4	689.3
82.5°	245.7	260.3	347.1	484.9	1082.6	2165.1	2240.5	2384.1	1324.2	647.9	356.8
85°	147.6	158.1	212.5	306.5	616.3	851.4	850.6	940.6	623.6	416.8	188.1
87.5°	70.5	78.7	113.5	158.9	310.6	319.5	299.2	339.0	378.7	273.3	94.9
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°	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1	2414.1
2.5°	2412.4	2409.2	2398.6	2390.5	2388.9	2384.1	2380.0	2382.4	2385.7	2386.5	2386.5
5°	2411.6	2402.7	2388.9	2383.2	2390.5	2400.3	2412.4	2428.7	2438.4	2445.7	2450.5
7.5°	2450.5	2433.5	2418.1	2414.9	2429.5	2455.4	2483.0	2517.0	2540.6	2556.8	2560.0
10°	2515.4	2494.3	2478.9	2482.2	2508.1	2545.4	2584.3	2628.1	2663.8	2685.7	2687.3
12.5°	2590.0	2569.7	2555.2	2568.9	2611.9	2657.3	2697.9	2736.0	2768.4	2790.3	2790.3
15°	2676.0	2661.4	2644.4	2676.0	2734.4	2774.9	2791.9	2810.6	2828.4	2844.6	2841.4
17.5°	2758.7	2744.9	2736.0	2773.3	2834.1	2852.8	2841.4	2827.6	2827.6	2836.5	2838.2
20°	2830.0	2817.9	2823.6	2860.1	2891.7	2872.2	2830.0	2786.3	2768.4	2773.3	2778.2
22.5°	2892.5	2886.8	2903.8	2920.9	2898.2	2830.0	2752.2	2693.0	2671.1	2669.5	2671.1
25°	2965.5	2964.7	2985.7	2954.9	2854.4	2728.7	2624.1	2566.5	2554.3	2564.1	2580.3
27.5°	3056.3	3065.2	3075.8	2963.0	2765.2	2575.4	2469.2	2429.5	2441.6	2465.1	2480.6
30°	3172.3	3196.6	3173.9	2942.8	2637.1	2400.3	2298.9	2287.6	2320.8	2354.0	2370.3
32.5°	3285.0	3323.1	3267.9	2890.1	2471.6	2214.6	2135.9	2132.7	2173.2	2205.7	2228.4
35°	3375.8	3451.2	3338.5	2785.5	2280.3	2043.5	1985.9	1964.0	1978.6	2016.7	2042.7
37.5°	3494.2	3619.9	3387.1	2625.7	2072.7	1902.4	1835.1	1784.8	1771.8	1787.2	1800.2
40°	3710.7	3876.9	3409.8	2402.7	1869.9	1761.3	1693.2	1619.4	1568.3	1531.0	1531.8
42.5°	4064.2	4211.8	3395.2	2131.9	1682.6	1623.4	1546.4	1461.2	1378.5	1294.2	1287.7
45°	4638.4	4709.7	3351.5	1844.8	1518.0	1479.1	1406.9	1321.8	1211.5	1115.8	1106.9
47.5°	5557.1	5399.0	3283.3	1594.2	1372.9	1356.6	1290.1	1192.0	1075.3	998.2	991.7
50°	6810.0	6394.0	3250.1	1394.8	1244.7	1249.6	1195.3	1091.5	981.2	924.4	917.9
52.5°	8308.5	7552.7	3314.2	1240.7	1141.8	1158.8	1118.2	1020.9	928.5	883.9	877.4
55°	9863.0	8752.9	3383.1	1128.8	1044.4	1077.7	1063.9	983.6	900.1	858.7	853.1
57.5°	11193.7	9648.9	3245.2	1038.0	957.7	1009.6	1021.7	960.1	885.5	848.2	841.7
60°	12031.4	10009.8	2883.6	952.8	888.7	955.2	997.4	953.6	891.2	887.9	883.1
62.5°	12428.7	9978.2	2341.1	885.5	845.8	931.7	1015.2	990.1	956.1	985.2	987.7
65°	12250.3	9501.3	1743.4	840.9	815.0	940.6	1068.8	1059.0	974.7	1003.9	1008.0
67.5°	11076.1	8363.6	1291.0	802.0	780.9	965.8	1166.1	1081.7	938.2	959.3	946.3
70°	8952.4	6630.7	995.8	758.2	746.0	962.5	1209.9	1068.0	898.5	903.3	868.5
72.5°	6173.4	4521.6	810.1	717.6	695.8	877.4	1179.1	1033.9	865.2	827.9	781.7
75°	3357.1	2427.0	688.5	675.5	607.4	770.4	1122.3	1009.6	835.2	785.8	759.8
77.5°	1321.0	1007.1	597.6	617.9	531.1	680.3	1059.0	963.4	793.9	729.0	716.0
80°	539.3	514.1	495.5	534.4	456.5	595.2	982.8	909.0	744.4	676.3	650.3
82.5°	305.7	319.5	385.2	421.7	370.6	548.2	946.3	865.2	685.2	605.7	574.9
85°	156.5	187.3	268.4	302.5	272.5	466.3	871.7	757.4	549.8	463.8	466.3
87.5°	75.4	104.6	169.5	189.8	176.8	337.3	651.2	549.0	428.2	339.0	328.4
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)