

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: P193418

Luminaire Tested: **GAN-AF-10-LED-U-5WQ-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-5WQ-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33365 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 323
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: 28.75 FT

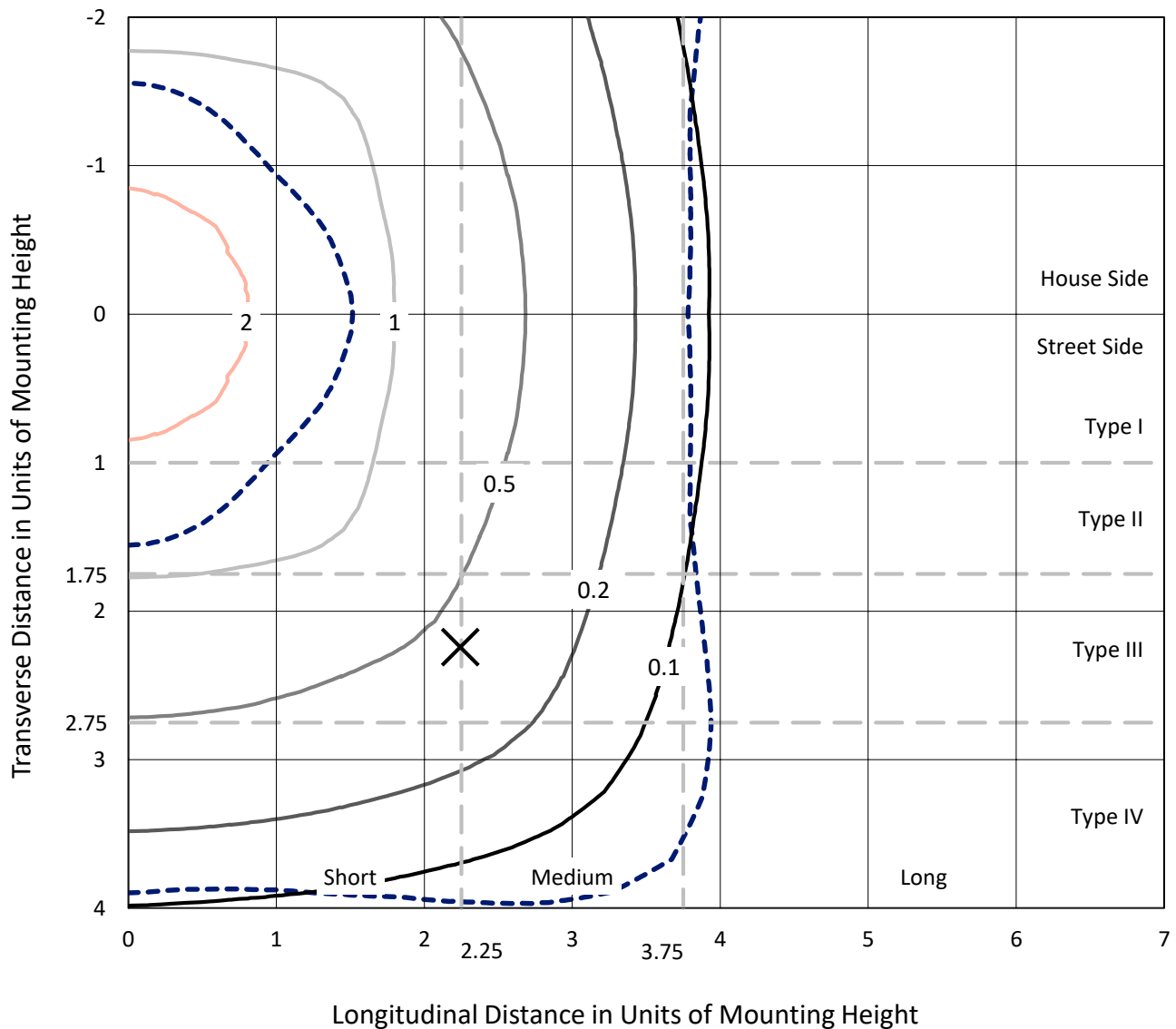


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

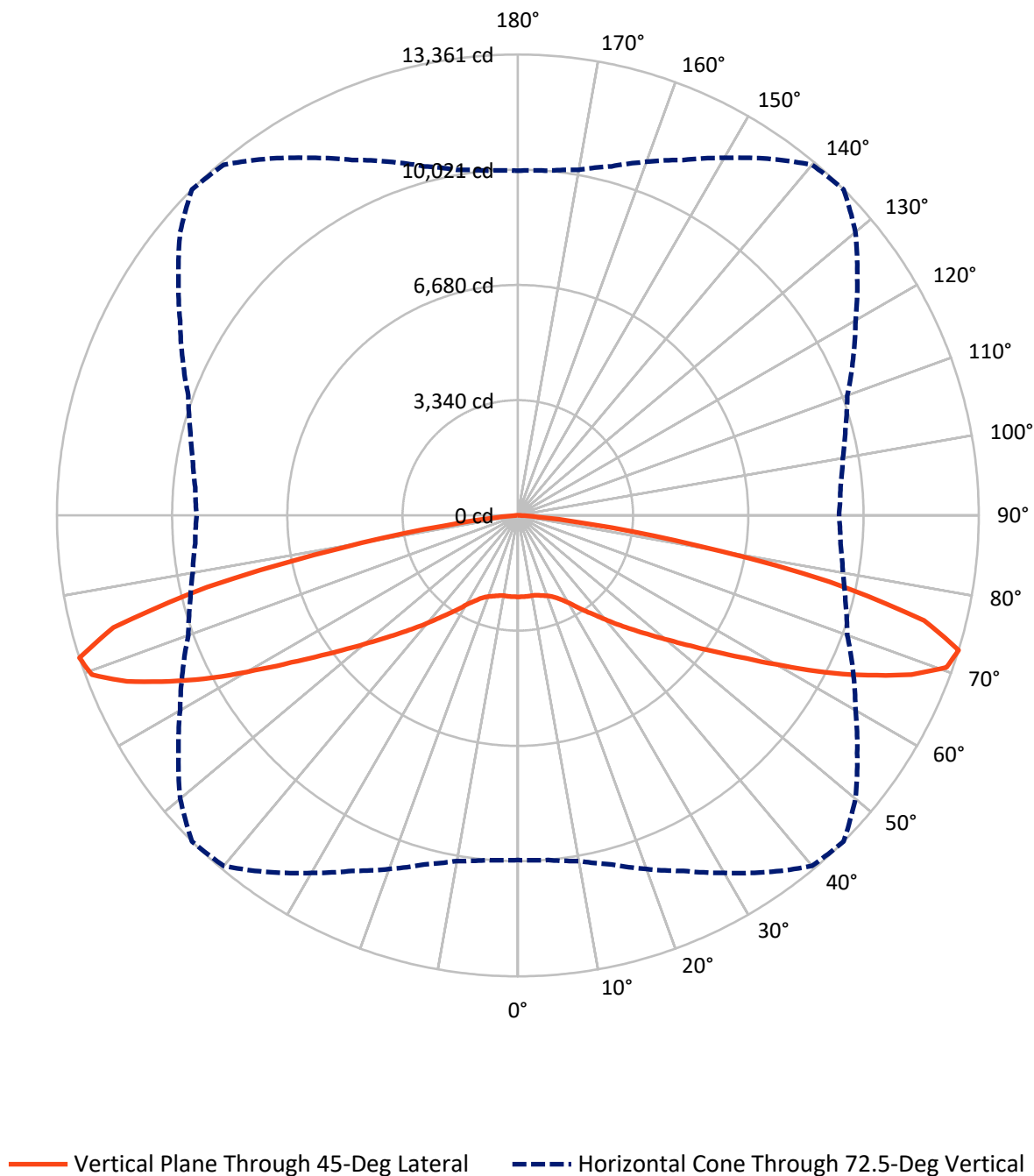


Based on 30 foot mounting height. Maximum calculated value = 2.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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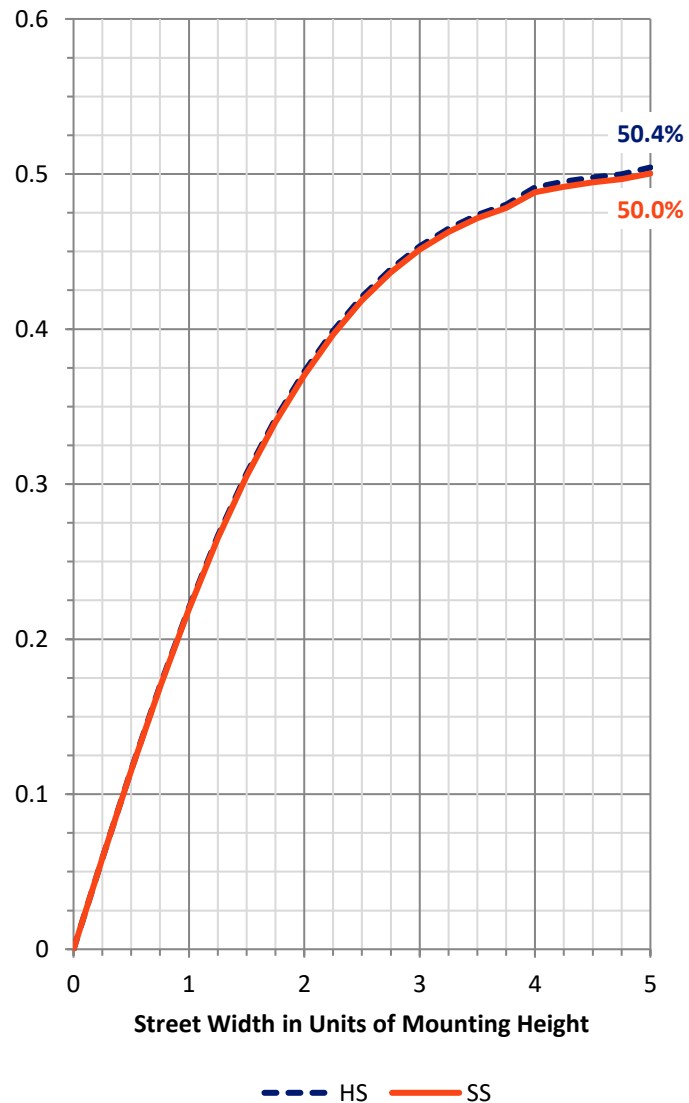
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16682.5	0.0	16682.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16682.5	0.0	16682.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33365.0	0.0	33365.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.6	0.7
10°-20°	685.2	2.1
20°-30°	1252.2	3.8
30°-40°	2159.0	6.5
40°-50°	3690.7	11.1
50°-60°	5982.2	17.9
60°-70°	9924.3	29.7
70°-80°	8741.0	26.2
80°-90°	704.8	2.1
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°	33365.0	100.0
0°-180°	33365.0	100.0

Coefficient of Utilization



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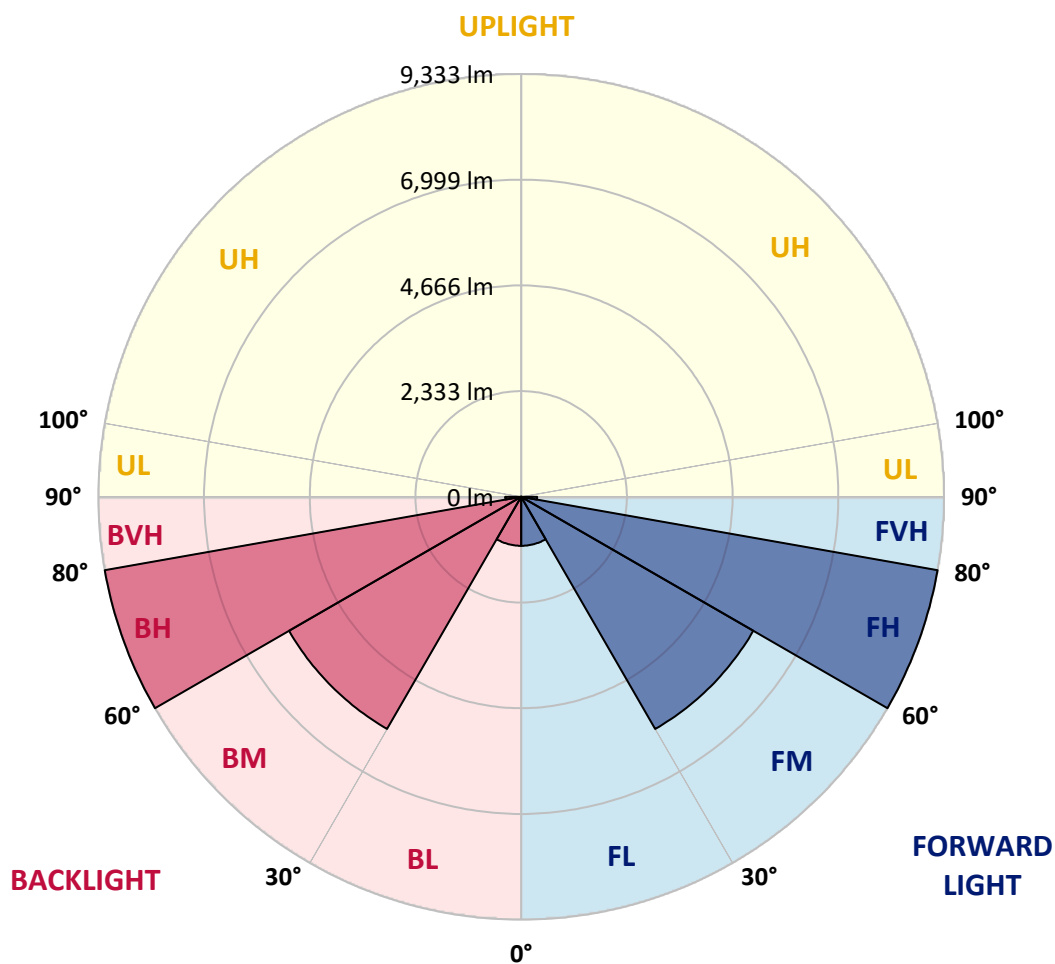
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1081.5	3.2			
FM	(30°-60°)	5916.0	17.7			
FH	(60°-80°)	9332.6	28.0			G4/12000
FVH	(80°-90°)	352.4	1.1			G3/500
BL	(0°-30°)	1081.5	3.2	B3/2500		
BM	(30°-60°)	5916.0	17.7	B4/8500		
BH	(60°-80°)	9332.6	28.0	B5		G4/12000
BVH	(80°-90°)	352.4	1.1			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2362.8	2364.3	2365.8	2364.3	2364.3	2362.8	2361.2	2362.8	2361.2	2358.2	2359.7
5°	2370.4	2373.5	2373.5	2370.4	2371.9	2370.4	2367.4	2368.9	2365.8	2361.2	2361.2
7.5°	2379.6	2381.1	2381.1	2378.1	2379.6	2376.5	2373.5	2371.9	2368.9	2362.8	2358.2
10°	2393.4	2394.9	2393.4	2390.3	2390.3	2385.7	2378.1	2375.0	2368.9	2359.7	2355.1
12.5°	2408.7	2410.2	2408.7	2405.6	2404.1	2396.4	2390.3	2385.7	2381.1	2373.5	2365.8
15°	2430.1	2433.2	2430.1	2424.0	2419.4	2413.3	2410.2	2411.7	2413.3	2407.1	2399.5
17.5°	2469.9	2471.4	2466.8	2453.0	2446.9	2440.8	2440.8	2443.9	2448.5	2445.4	2437.7
20°	2543.3	2538.7	2528.0	2511.2	2503.5	2492.8	2491.3	2492.8	2492.8	2491.3	2485.2
22.5°	2635.2	2632.1	2618.3	2596.9	2586.2	2580.1	2570.9	2563.2	2561.7	2557.1	2551.0
25°	2745.3	2743.8	2727.0	2708.6	2701.0	2693.3	2685.7	2674.9	2665.8	2655.0	2648.9
27.5°	2886.1	2880.0	2855.5	2846.3	2835.6	2831.0	2820.3	2808.1	2800.4	2786.6	2779.0
30°	3040.7	3040.7	3020.8	3017.7	3017.7	3007.0	2994.8	2973.3	2959.6	2945.8	2941.2
32.5°	3195.2	3196.8	3176.9	3183.0	3187.6	3195.2	3198.3	3190.6	3181.5	3179.9	3170.8
35°	3418.7	3412.5	3392.6	3397.2	3395.7	3394.2	3394.2	3411.0	3414.1	3417.1	3398.8
37.5°	3695.6	3695.6	3675.7	3675.7	3666.6	3657.4	3645.1	3655.9	3672.7	3677.3	3665.0
40°	4012.4	4023.1	3998.6	3997.1	4000.2	3971.1	3957.3	3974.2	3984.9	4003.2	3989.5
42.5°	4385.8	4378.1	4353.7	4350.6	4333.8	4324.6	4312.3	4326.1	4342.9	4355.2	4359.8
45°	4743.9	4737.8	4710.2	4710.2	4693.4	4685.7	4691.9	4714.8	4722.5	4739.3	4756.1
47.5°	5097.4	5089.7	5071.4	5079.0	5080.5	5094.3	5114.2	5135.6	5157.1	5180.0	5187.7
50°	5458.5	5460.1	5440.2	5458.5	5481.5	5519.7	5573.3	5608.5	5652.9	5681.9	5691.1
52.5°	5787.5	5793.7	5815.1	5857.9	5903.8	5978.8	6070.6	6156.3	6229.8	6278.8	6275.7
55°	6182.4	6191.5	6243.6	6317.0	6392.0	6505.2	6641.4	6792.9	6915.4	6985.8	6941.4
57.5°	6687.3	6707.2	6765.4	6864.9	6976.6	7123.5	7310.2	7538.2	7727.9	7822.8	7750.9
60°	7380.6	7392.8	7463.2	7573.4	7708.0	7890.2	8139.6	8445.6	8713.4	8838.9	8756.3
62.5°	8294.1	8317.1	8373.7	8485.4	8623.2	8829.7	9134.3	9516.8	9850.4	10024.9	9838.2
65°	9385.2	9458.7	9506.1	9619.4	9747.9	9966.7	10285.0	10695.2	11053.2	11168.0	10952.3
67.5°	10465.6	10529.9	10612.5	10742.6	10872.7	11119.1	11414.4	11812.3	12205.6	12309.6	11974.5
70°	10938.5	10975.2	11103.7	11281.3	11530.7	11821.5	12162.7	12609.5	13096.2	13181.9	12756.5
72.5°	9991.2	10028.0	10171.8	10473.3	10907.9	11370.0	11965.3	12621.8	13264.5	13360.9	12774.8
75°	7556.5	7496.9	7709.6	8109.0	8695.1	9339.3	10171.8	11112.9	12041.8	12162.7	11463.4
77.5°	3905.3	3897.6	4058.3	4554.1	5253.5	5986.5	6903.1	7966.7	8875.7	9242.9	8673.7
80°	1100.3	1112.5	1189.0	1435.4	1844.0	2373.5	3089.6	4085.9	4829.6	5209.1	4890.8
82.5°	431.5	465.2	494.3	540.2	593.8	671.8	896.7	1334.4	1790.4	2139.3	1752.2
85°	154.6	165.3	234.1	277.0	281.6	296.9	338.2	394.8	475.9	567.7	466.7
87.5°	58.2	64.3	75.0	124.0	122.4	111.7	136.2	142.3	107.1	97.9	120.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8	2362.8
2.5°	2356.6	2358.2	2358.2	2359.7	2361.2	2361.2	2364.3	2364.3
5°	2358.2	2358.2	2355.1	2356.6	2355.1	2355.1	2356.6	2356.6
7.5°	2355.1	2353.6	2350.5	2349.0	2345.9	2345.9	2345.9	2345.9
10°	2350.5	2349.0	2345.9	2344.4	2342.9	2342.9	2342.9	2342.9
12.5°	2362.8	2358.2	2355.1	2353.6	2353.6	2353.6	2353.6	2353.6
15°	2394.9	2384.2	2376.5	2376.5	2378.1	2381.1	2381.1	2384.2
17.5°	2434.7	2422.4	2414.8	2408.7	2411.7	2416.3	2419.4	2422.4
20°	2482.1	2476.0	2465.3	2459.2	2459.2	2465.3	2468.3	2469.9
22.5°	2547.9	2543.3	2538.7	2531.1	2531.1	2534.2	2540.3	2540.3
25°	2645.9	2642.8	2639.7	2633.6	2632.1	2632.1	2635.2	2638.2
27.5°	2768.3	2769.8	2766.8	2765.2	2760.6	2759.1	2763.7	2762.2
30°	2932.0	2939.7	2947.3	2941.2	2933.6	2929.0	2924.4	2918.3
32.5°	3153.9	3144.7	3138.6	3127.9	3114.1	3101.9	3092.7	3082.0
35°	3363.6	3348.3	3342.1	3351.3	3349.8	3342.1	3331.4	3322.2
37.5°	3620.7	3617.6	3620.7	3637.5	3634.4	3642.1	3620.7	3619.1
40°	3945.1	3948.1	3969.6	3989.5	4000.2	4010.9	3998.6	3986.4
42.5°	4321.5	4320.0	4327.6	4355.2	4373.6	4385.8	4359.8	4356.7
45°	4719.4	4708.7	4714.8	4737.8	4756.1	4769.9	4740.8	4740.8
47.5°	5157.1	5138.7	5118.8	5144.8	5155.5	5164.7	5141.8	5134.1
50°	5645.2	5607.0	5564.1	5574.8	5574.8	5571.8	5542.7	5541.2
52.5°	6205.3	6134.9	6056.9	6027.8	6011.0	5992.6	5942.1	5917.6
55°	6849.6	6744.0	6621.5	6546.6	6506.8	6456.3	6372.1	6349.2
57.5°	7602.5	7437.2	7226.0	7134.2	7045.4	6962.8	6869.5	6843.4
60°	8494.6	8251.3	7971.3	7801.4	7705.0	7625.4	7529.0	7524.4
62.5°	9489.3	9105.2	8788.4	8635.4	8565.0	8494.6	8402.8	8415.0
65°	10500.8	10099.9	9803.0	9679.1	9613.3	9555.1	9463.3	9477.1
67.5°	11498.6	11129.8	10803.8	10676.8	10603.3	10529.9	10447.3	10461.0
70°	12214.7	11757.2	11389.9	11108.3	10932.4	10733.4	10604.9	10572.7
72.5°	12009.7	11304.2	10721.2	10162.6	9835.1	9568.9	9388.3	9310.3
75°	10393.7	9429.6	8679.8	7994.2	7608.6	7294.9	7066.9	6924.5
77.5°	7718.8	6635.3	5749.3	4959.7	4335.3	3916.0	3620.7	3429.4
80°	4225.1	3213.6	2349.0	1651.2	1213.5	1008.5	890.6	834.0
82.5°	1316.0	849.3	625.9	540.2	501.9	480.5	445.3	388.7
85°	419.3	367.3	341.3	326.0	310.6	270.9	186.7	169.9
87.5°	162.2	166.8	165.3	156.1	159.1	114.8	91.8	81.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)