

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: P192543

Luminaire Tested: **GAN-AF-05-LED-U-5MQ-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5MQ-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24420.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 210
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

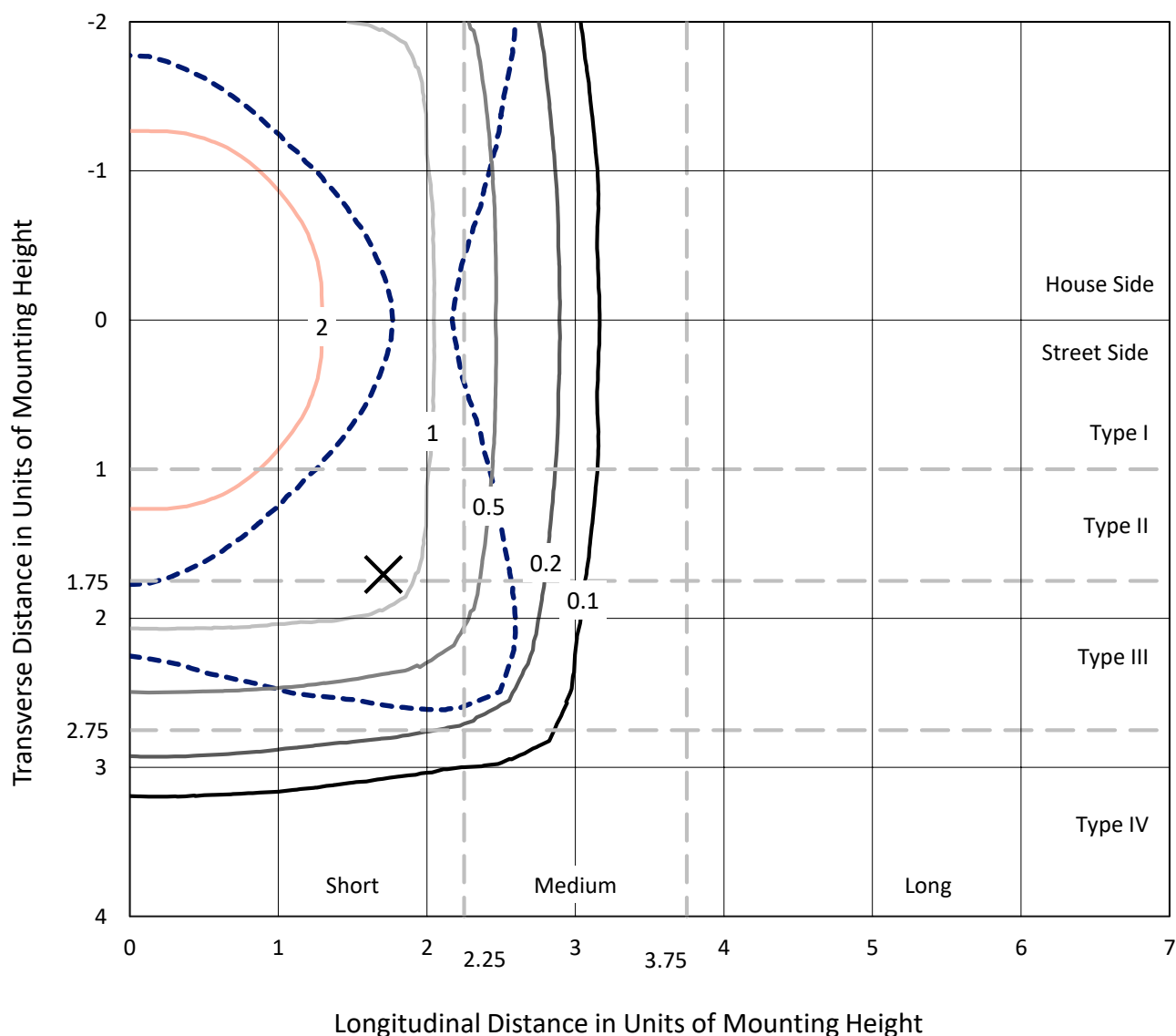


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

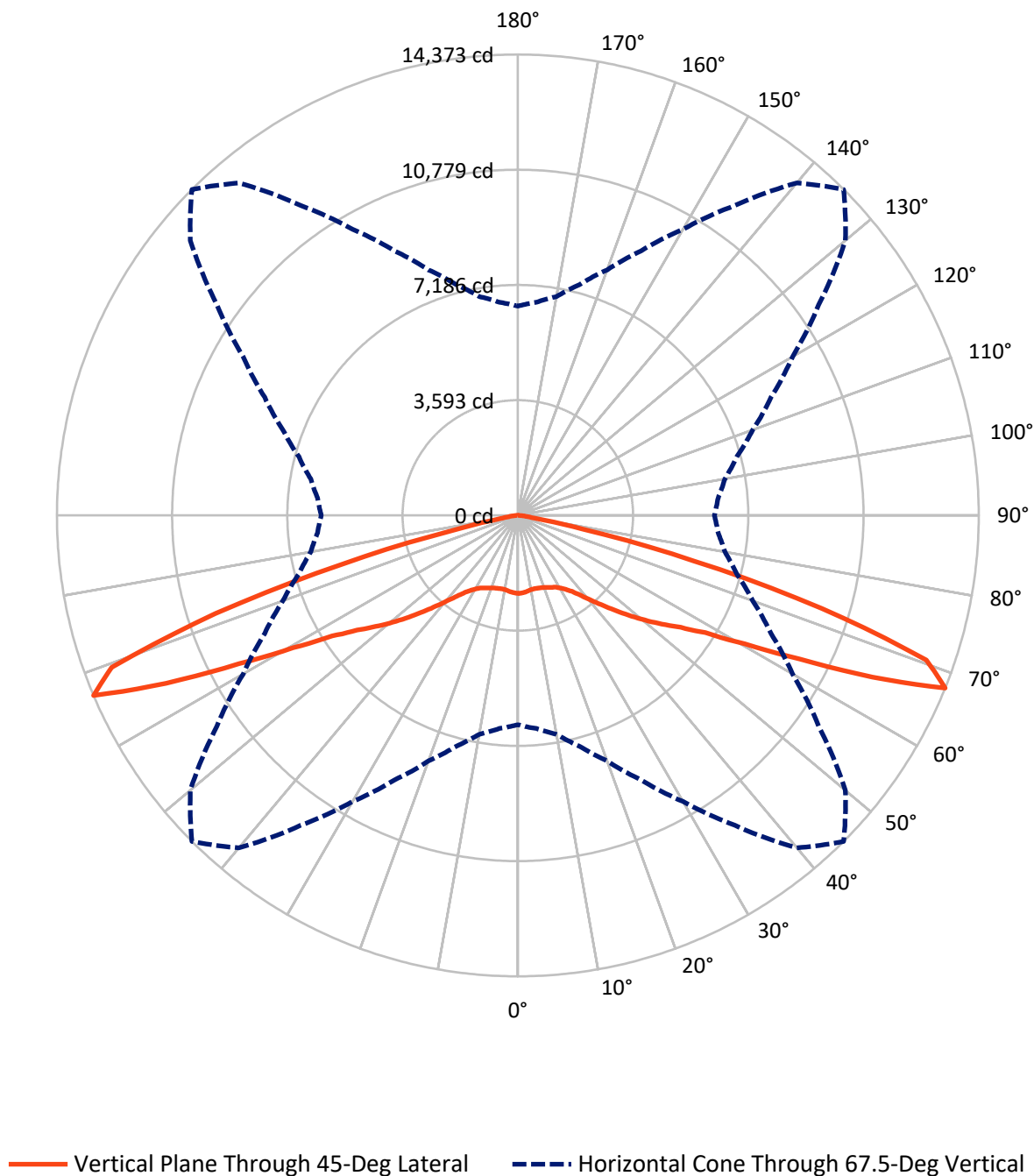


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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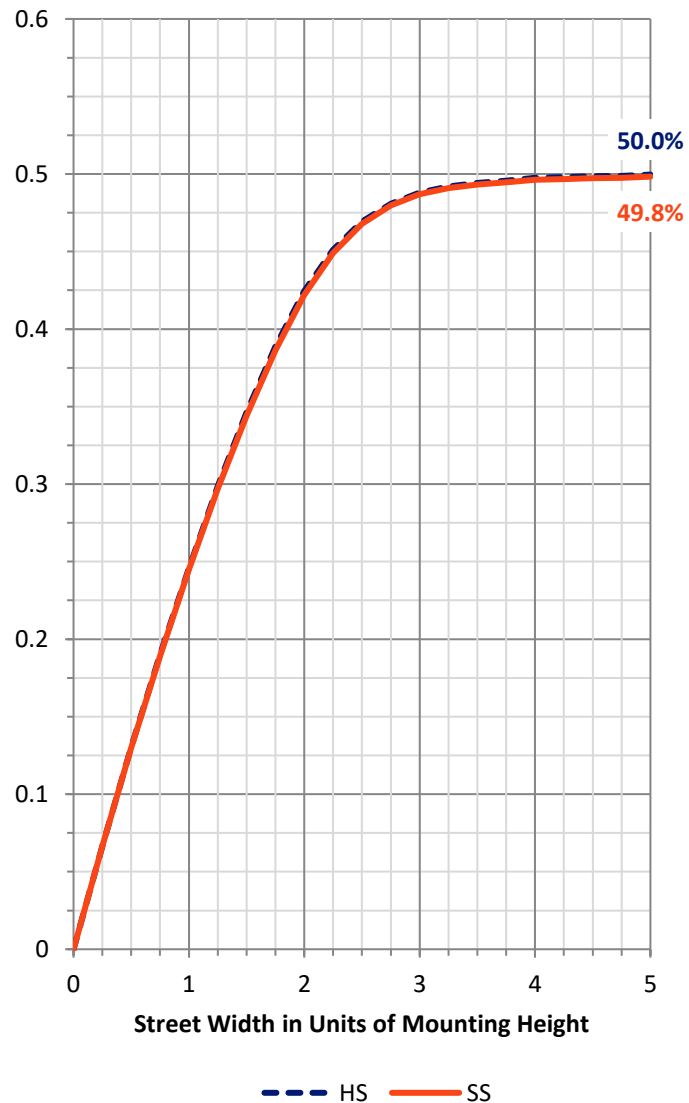
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12210.3	0.0	12210.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12210.3	0.0	12210.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	24420.5	0.0	24420.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	0.9
10°-20°	661.0	2.7
20°-30°	1123.6	4.6
30°-40°	1836.8	7.5
40°-50°	3279.0	13.4
50°-60°	5528.4	22.6
60°-70°	8579.3	35.1
70°-80°	3014.4	12.3
80°-90°	170.3	0.7
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°	24420.5	100.0
0°-180°	24420.5	100.0

Coefficient of Utilization



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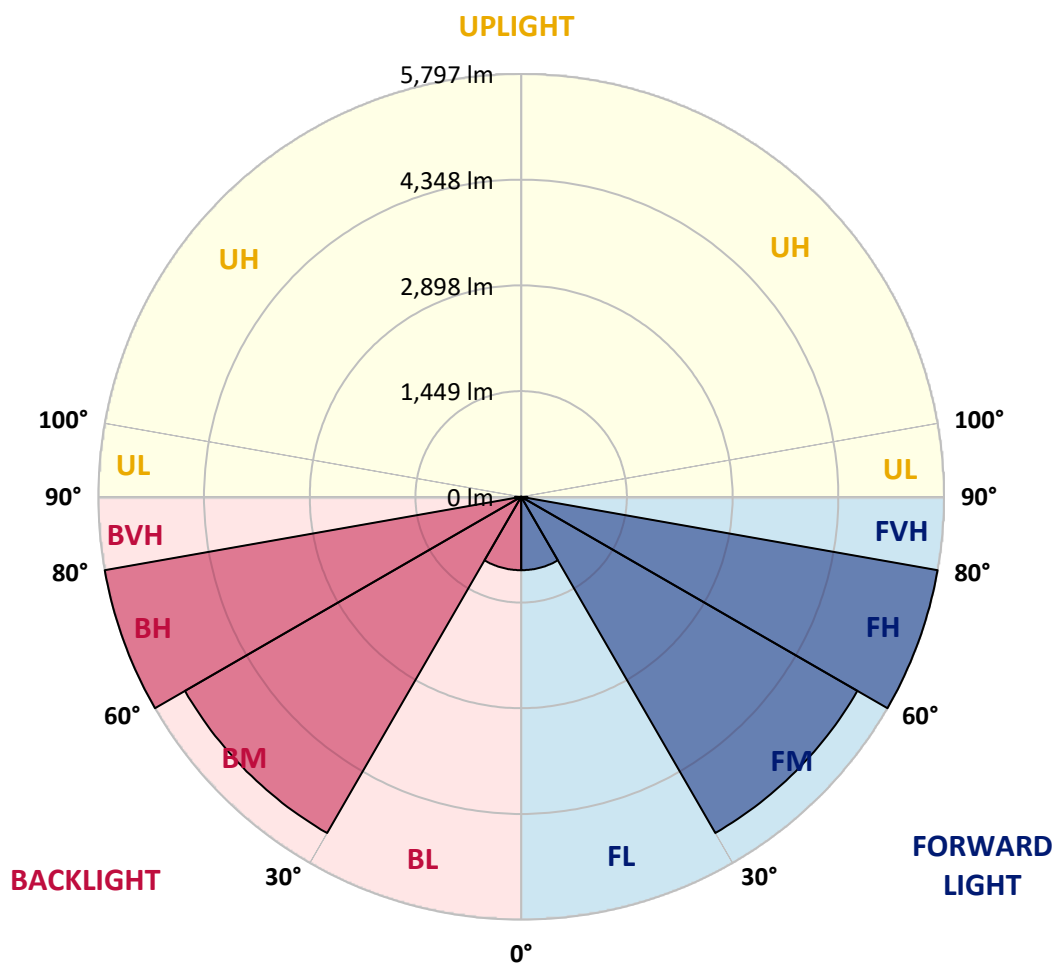
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1006.2	4.1			
FM	(30°-60°)	5322.1	21.8			
FH	(60°-80°)	5796.8	23.7			G3/7500
FVH	(80°-90°)	85.2	0.3			G1/100
BL	(0°-30°)	1006.2	4.1	B3/2500		
BM	(30°-60°)	5322.1	21.8	B4/8500		
BH	(60°-80°)	5796.8	23.7	B5		G3/7500
BVH	(80°-90°)	85.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6
2.5°	2424.6	2426.8	2426.8	2426.8	2425.8	2425.8	2423.5	2425.8	2424.6	2421.3	2422.4
5°	2404.4	2406.7	2406.7	2405.6	2408.9	2407.7	2404.4	2406.7	2405.6	2403.2	2404.4
7.5°	2375.2	2378.6	2378.6	2377.5	2380.9	2379.6	2377.5	2378.6	2378.6	2375.2	2375.2
10°	2342.6	2344.9	2344.9	2343.7	2349.4	2349.4	2348.3	2351.6	2352.8	2349.4	2347.1
12.5°	2312.4	2315.6	2315.6	2320.2	2325.8	2328.1	2333.7	2338.1	2342.6	2341.5	2337.0
15°	2294.3	2296.6	2301.1	2306.7	2315.6	2323.5	2332.5	2342.6	2351.6	2353.9	2347.1
17.5°	2283.1	2286.5	2293.3	2301.1	2313.4	2326.9	2340.5	2353.9	2366.2	2370.7	2362.8
20°	2279.8	2282.0	2288.8	2302.2	2319.0	2339.2	2358.4	2374.1	2390.9	2396.6	2390.9
22.5°	2286.5	2290.9	2298.9	2314.5	2337.0	2362.8	2385.3	2406.7	2428.0	2438.1	2430.3
25°	2316.9	2321.3	2331.4	2351.6	2376.4	2403.2	2429.2	2453.9	2472.9	2483.0	2477.5
27.5°	2373.0	2378.6	2390.9	2411.2	2438.1	2467.3	2495.4	2515.5	2531.3	2534.7	2527.9
30°	2457.2	2469.6	2484.1	2506.6	2538.1	2562.7	2590.9	2608.8	2627.9	2627.9	2622.3
32.5°	2588.6	2600.9	2616.6	2637.9	2662.7	2689.6	2714.3	2730.1	2750.3	2751.4	2737.9
35°	2785.1	2790.7	2804.2	2817.7	2840.2	2863.6	2885.1	2895.2	2912.0	2913.2	2900.9
37.5°	3044.5	3045.7	3054.7	3059.2	3079.4	3105.1	3125.4	3132.1	3147.9	3145.6	3133.2
40°	3346.6	3352.3	3355.6	3362.4	3383.6	3408.5	3429.7	3433.2	3450.0	3446.6	3430.8
42.5°	3695.9	3698.1	3717.2	3727.4	3747.6	3759.9	3786.8	3790.2	3810.4	3801.4	3783.5
45°	4087.8	4108.0	4126.0	4146.3	4167.5	4182.1	4203.5	4199.1	4212.5	4199.1	4188.9
47.5°	4500.0	4514.6	4555.0	4586.4	4621.2	4633.5	4663.9	4650.5	4663.9	4644.8	4641.5
50°	4953.7	4979.5	5014.4	5050.3	5087.3	5107.6	5146.8	5130.0	5148.0	5130.0	5119.9
52.5°	5400.6	5407.3	5483.7	5536.5	5588.2	5611.8	5635.4	5627.5	5628.6	5627.5	5617.4
55°	5825.1	5840.9	5917.3	5989.1	6078.9	6145.2	6185.6	6181.2	6171.1	6160.9	6144.0
57.5°	6303.6	6319.3	6406.9	6495.6	6597.8	6692.1	6774.1	6858.3	6890.9	6899.9	6862.8
60°	6950.4	6949.3	7066.2	7174.0	7320.0	7460.3	7640.0	7823.1	8033.1	8130.7	8001.6
62.5°	7608.5	7635.5	7804.0	7994.8	8295.8	8589.0	8920.3	9245.9	9578.3	9848.9	9561.5
65°	7529.9	7633.3	7883.7	8316.0	8872.0	9532.4	10246.6	11002.3	11685.2	12154.5	11627.9
67.5°	6525.9	6673.0	6928.0	7453.5	8148.7	9101.1	10300.4	11795.2	13532.6	14372.5	13331.5
70°	4730.2	4896.5	5163.7	5676.9	6365.3	7270.5	8573.2	10367.8	12667.8	13514.6	12367.9
72.5°	2353.9	2443.7	2608.8	2935.6	3456.8	4191.1	5372.6	7097.6	9132.6	9909.6	8861.8
75°	799.6	841.2	869.2	975.9	1141.0	1429.6	2016.9	3103.0	4733.5	5674.7	4666.3
77.5°	461.6	462.7	481.9	500.9	529.0	560.4	639.0	838.9	1451.0	2060.7	1501.4
80°	298.8	297.6	313.3	327.9	347.0	362.7	367.2	388.5	448.1	531.2	475.1
82.5°	154.9	174.0	208.9	228.1	263.9	270.6	261.6	253.8	268.4	278.5	285.2
85°	85.3	74.1	111.2	143.7	159.5	161.7	161.7	152.8	158.3	154.9	168.5
87.5°	39.4	35.9	43.8	70.8	75.3	64.0	67.4	59.5	42.7	41.5	47.2
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°	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6	2433.6
2.5°	2422.4	2423.5	2423.5	2426.8	2428.0	2430.3	2432.4	2433.6
5°	2403.2	2406.7	2404.4	2407.7	2407.7	2410.0	2410.0	2411.2
7.5°	2375.2	2378.6	2378.6	2378.6	2377.5	2380.9	2380.9	2380.9
10°	2346.1	2348.3	2347.1	2344.9	2342.6	2346.1	2344.9	2343.7
12.5°	2337.0	2331.4	2326.9	2324.7	2320.2	2321.3	2317.9	2317.9
15°	2342.6	2332.5	2324.7	2321.3	2316.9	2314.5	2312.4	2313.4
17.5°	2357.3	2344.9	2334.8	2329.2	2323.5	2320.2	2315.6	2316.9
20°	2383.1	2368.5	2353.9	2342.6	2332.5	2326.9	2323.5	2322.5
22.5°	2421.3	2399.9	2378.6	2361.7	2348.3	2340.5	2337.0	2334.8
25°	2465.1	2441.5	2416.9	2397.7	2384.1	2374.1	2367.3	2367.3
27.5°	2520.1	2501.0	2478.5	2456.0	2443.7	2433.6	2429.2	2426.8
30°	2612.2	2594.3	2576.3	2554.9	2539.1	2529.1	2521.1	2514.5
32.5°	2730.1	2715.5	2700.9	2685.1	2670.6	2657.0	2644.7	2639.1
35°	2896.3	2885.1	2874.9	2857.0	2851.3	2843.5	2836.8	2831.1
37.5°	3125.4	3120.9	3120.9	3101.8	3097.3	3094.0	3087.2	3088.3
40°	3426.4	3430.8	3425.3	3418.5	3415.1	3406.1	3406.1	3414.1
42.5°	3782.3	3785.8	3798.1	3786.8	3799.2	3788.0	3781.3	3786.8
45°	4195.7	4208.0	4232.7	4221.4	4229.3	4210.2	4186.7	4187.8
47.5°	4659.5	4670.8	4680.7	4672.9	4674.1	4642.7	4611.2	4603.3
50°	5141.2	5145.8	5151.3	5140.1	5142.4	5107.6	5071.6	5072.7
52.5°	5617.4	5638.8	5661.2	5630.9	5624.1	5584.8	5534.3	5514.1
55°	6162.1	6192.4	6166.6	6113.8	6061.0	6008.1	5941.9	5930.7
57.5°	6833.6	6781.9	6701.1	6601.2	6528.1	6454.1	6386.6	6358.6
60°	7768.0	7573.8	7427.8	7279.5	7186.3	7095.3	7006.6	6993.1
62.5°	9088.7	8752.9	8462.0	8155.4	7905.0	7709.7	7553.5	7509.7
65°	10744.0	9950.0	9261.7	8619.3	8061.1	7640.0	7375.0	7258.2
67.5°	11456.1	9888.3	8708.0	7796.0	7066.2	6556.2	6269.9	6127.3
70°	10066.8	8200.4	6916.7	6003.7	5338.9	4795.4	4535.9	4383.2
72.5°	6925.7	5216.5	4124.9	3366.9	2835.6	2380.9	2201.1	2187.7
75°	3109.6	2059.6	1419.5	1093.8	920.8	800.8	763.6	735.6
77.5°	870.4	643.5	573.8	536.8	500.9	459.3	443.6	447.0
80°	423.4	399.8	384.0	360.4	327.9	293.2	277.4	284.1
82.5°	280.8	277.4	287.5	270.6	223.4	189.8	159.5	146.0
85°	170.7	172.9	176.4	177.4	150.4	105.6	71.9	80.9
87.5°	67.4	77.5	84.2	87.6	82.0	50.6	40.4	41.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)