

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: INVUE

Report Number: P180302

Luminaire Tested: **ICM-F05-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180302
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-RW-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10955.5 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

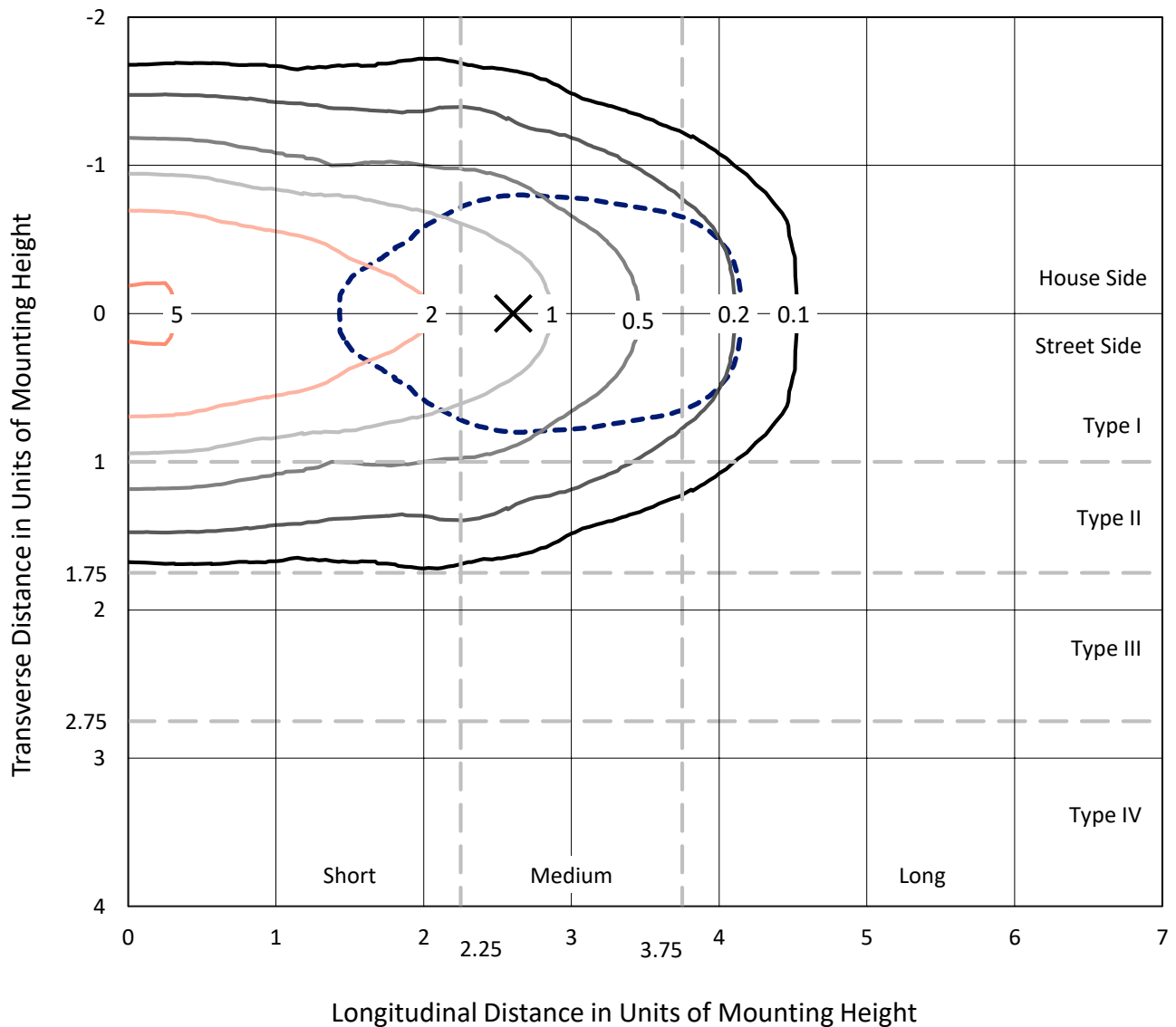
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

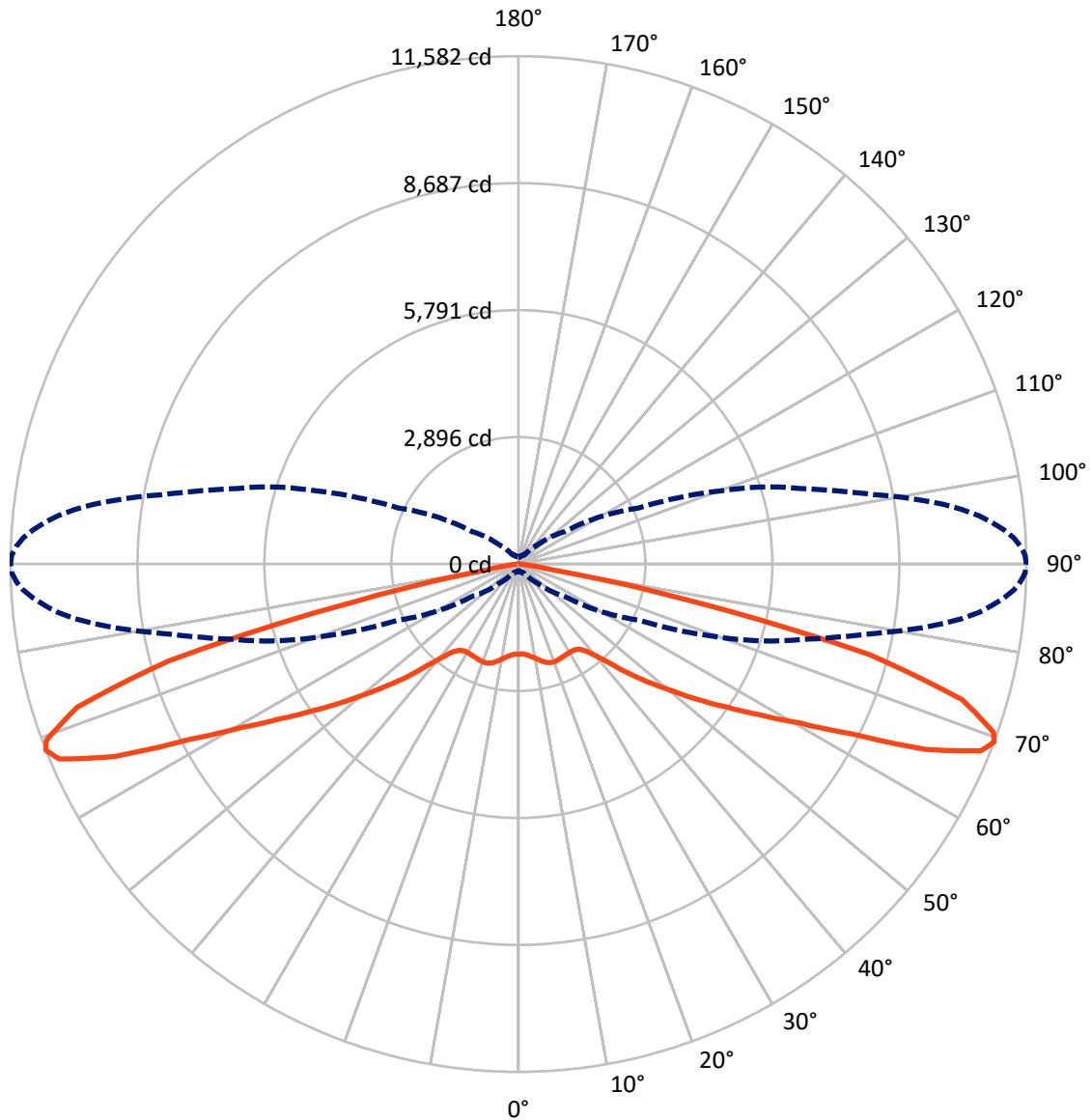
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5477.8	0.0	5477.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5477.8	0.0	5477.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	10955.5	0.0	10955.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.3	1.8
10°-20°	635.2	5.8
20°-30°	1029.1	9.4
30°-40°	1282.5	11.7
40°-50°	1602.6	14.6
50°-60°	1978.9	18.1
60°-70°	2458.9	22.4
70°-80°	1632.4	14.9
80°-90°	134.8	1.2
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°	10955.5	100.0
0°-180°	10955.5	100.0



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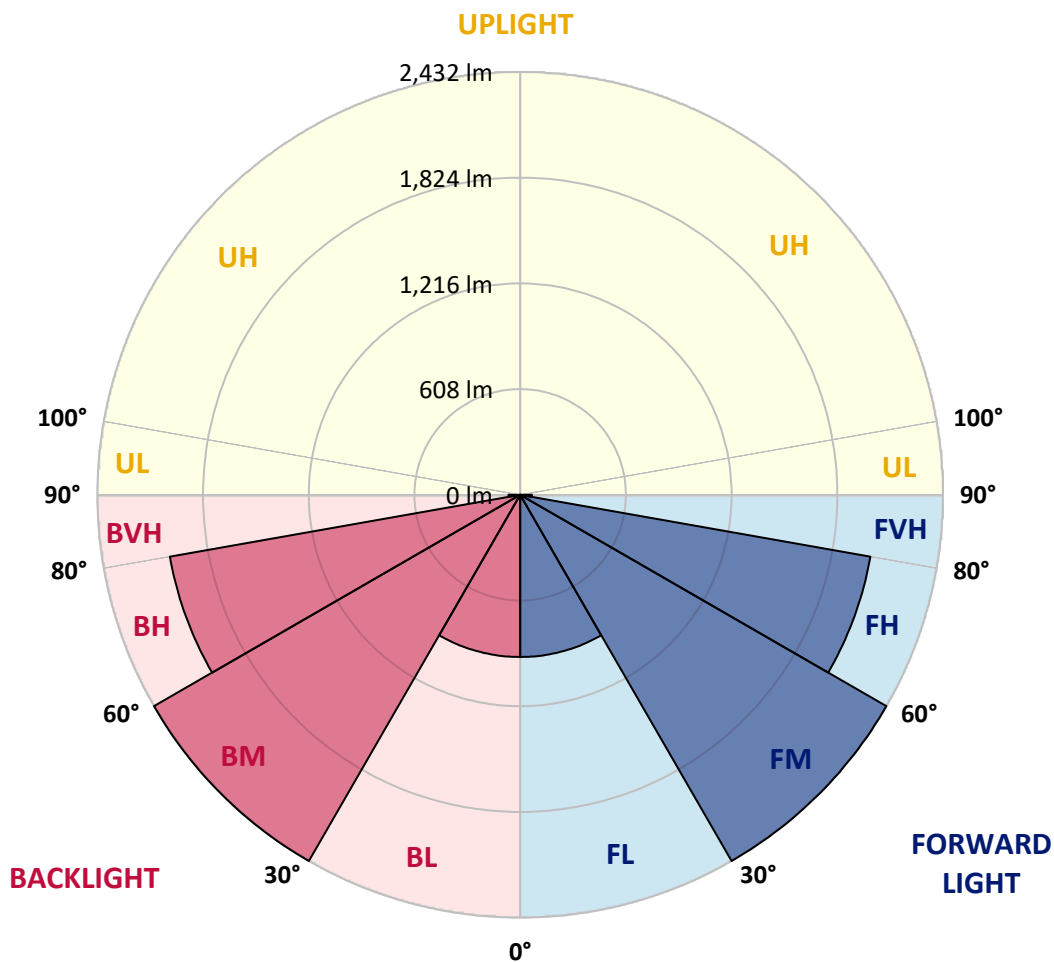
CATALOG NUMBER: ICM-F05-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	932.8	8.5			
FM	(30°-60°)	2432.0	22.2			
FH	(60°-80°)	2045.6	18.7			G2/5000
FVH	(80°-90°)	67.4	0.6			G1/100
BL	(0°-30°)	932.8	8.5	B2/1000		
BM	(30°-60°)	2432.0	22.2	B2/2500		
BH	(60°-80°)	2045.6	18.7	B3/2500		G3/2500
BVH	(80°-90°)	67.4	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2062.2	2063.8	2062.7	2065.0	2064.4	2064.4	2063.3	2060.8	2059.5	2058.4	2058.6
5°	2082.0	2079.6	2083.2	2086.7	2085.4	2086.1	2085.5	2085.4	2084.3	2084.2	2084.1
7.5°	2103.0	2102.4	2104.8	2114.2	2115.3	2118.8	2122.9	2125.8	2126.3	2127.0	2126.4
10°	2121.1	2121.7	2127.5	2141.0	2148.0	2159.1	2170.2	2179.0	2182.2	2184.3	2184.0
12.5°	2135.7	2136.4	2145.1	2166.2	2183.1	2204.1	2228.1	2241.5	2247.4	2248.4	2249.5
15°	2136.9	2138.6	2153.9	2188.3	2222.2	2256.8	2285.4	2303.5	2308.1	2311.4	2311.5
17.5°	2121.7	2122.9	2148.7	2199.5	2256.2	2309.9	2339.7	2347.9	2349.7	2350.8	2350.2
20°	2082.0	2084.8	2121.1	2196.5	2283.0	2353.1	2384.2	2373.0	2367.5	2366.8	2366.2
22.5°	2017.7	2017.1	2064.4	2166.2	2288.3	2387.1	2414.5	2385.3	2368.1	2364.5	2362.2
25°	1913.7	1920.7	1976.2	2097.7	2258.5	2394.6	2436.2	2391.8	2366.9	2361.4	2354.6
27.5°	1800.8	1804.8	1864.0	1994.3	2188.9	2368.4	2446.7	2404.7	2376.9	2369.1	2361.3
30°	1669.3	1674.6	1737.7	1873.9	2077.3	2300.6	2443.7	2433.9	2401.4	2392.1	2382.2
32.5°	1540.8	1546.6	1603.3	1752.4	1959.8	2207.6	2426.2	2475.4	2442.0	2431.7	2421.4
35°	1407.5	1416.2	1485.2	1636.0	1846.4	2104.2	2399.4	2528.6	2510.2	2501.0	2492.0
37.5°	1296.9	1298.8	1365.4	1523.8	1741.2	2005.4	2363.7	2595.7	2609.2	2609.1	2610.3
40°	1173.6	1184.8	1251.4	1418.6	1646.0	1921.9	2329.8	2686.9	2756.8	2769.6	2779.5
42.5°	1063.2	1064.4	1132.2	1304.6	1542.5	1854.6	2311.1	2796.8	2946.2	2973.4	3000.8
45°	946.9	951.5	1012.9	1179.5	1423.3	1775.1	2310.5	2923.6	3162.1	3207.9	3250.3
47.5°	837.0	838.7	903.6	1058.5	1286.5	1664.0	2306.4	3059.8	3384.5	3452.0	3507.3
50°	731.8	730.1	793.7	942.8	1151.4	1518.5	2270.7	3214.2	3624.2	3701.0	3769.1
52.5°	611.4	619.5	685.6	828.3	1028.7	1370.6	2166.7	3383.1	3873.5	3962.4	4047.9
55°	493.3	496.7	567.5	700.8	904.2	1232.8	1985.5	3538.5	4116.6	4217.4	4312.5
57.5°	363.5	374.1	436.0	567.5	778.0	1116.4	1755.2	3619.2	4322.6	4439.0	4551.8
60°	256.6	264.7	319.7	430.1	639.4	994.2	1557.0	3574.2	4488.4	4637.0	4772.7
62.5°	199.9	206.3	250.1	322.0	498.6	872.0	1415.1	3428.7	4672.4	4866.3	5051.3
65°	175.3	181.2	221.0	257.8	372.3	747.5	1337.3	3274.9	4919.1	5204.6	5462.5
67.5°	158.3	165.4	199.9	225.7	303.4	652.3	1316.8	3177.9	5040.1	5411.8	5759.7
69°	150.9	157.8	188.8	210.4	281.7	618.4	1281.9	3025.3	4876.7	5274.1	5654.0
70°	146.0	152.0	180.6	202.8	274.7	595.1	1223.4	2834.8	4652.9	5054.0	5451.1
72.5°	135.6	138.5	163.7	185.3	254.9	481.0	941.0	2105.3	3681.4	4072.7	4458.0
75°	119.8	123.3	146.8	167.7	198.7	298.7	595.5	1302.2	2478.8	2770.2	3127.7
77.5°	103.4	106.4	126.9	160.2	154.3	186.4	356.0	724.8	1407.2	1576.5	1808.9
80°	83.0	86.5	104.6	159.0	127.4	144.9	256.0	506.8	690.9	741.3	797.1
82.5°	60.8	63.6	81.8	128.6	97.7	109.3	195.3	429.6	493.6	516.5	527.6
85°	31.0	31.6	52.0	78.3	62.0	56.7	110.0	294.0	334.9	340.7	349.3
87.5°	5.2	5.2	11.7	13.4	15.3	9.3	14.0	50.2	58.2	57.8	62.6
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2059.4	2059.0	2059.7	2059.8	2060.6	2058.3	2057.9	2057.5	2057.4	2058.6	2057.4
5°	2084.6	2084.4	2084.8	2085.9	2085.6	2084.2	2084.0	2084.3	2082.6	2082.0	2083.2
7.5°	2127.5	2127.0	2125.8	2127.6	2128.9	2129.1	2130.4	2129.3	2128.8	2128.1	2129.3
10°	2186.1	2185.8	2186.1	2188.0	2189.4	2189.6	2191.1	2189.6	2188.9	2190.1	2190.2
12.5°	2251.7	2250.4	2253.2	2254.4	2256.2	2259.6	2257.9	2260.3	2258.4	2261.4	2261.4
15°	2313.5	2314.3	2316.9	2318.0	2318.4	2321.2	2321.7	2323.4	2321.0	2321.6	2326.3
17.5°	2352.0	2351.4	2353.1	2354.1	2355.6	2357.1	2359.8	2361.3	2360.2	2360.2	2362.5
20°	2364.9	2363.2	2363.7	2364.5	2364.8	2366.2	2368.1	2368.4	2368.4	2368.9	2371.4
22.5°	2358.5	2355.5	2352.6	2352.9	2353.0	2352.8	2354.2	2355.0	2356.1	2357.2	2360.2
25°	2349.7	2343.0	2337.4	2336.9	2335.3	2335.5	2336.1	2336.2	2337.3	2339.2	2341.5
27.5°	2350.6	2341.7	2332.7	2329.5	2326.4	2324.5	2323.5	2322.2	2323.4	2325.0	2327.5
30°	2370.6	2356.7	2343.8	2339.8	2335.3	2331.4	2327.9	2323.9	2321.6	2323.4	2324.6
32.5°	2405.9	2392.1	2379.5	2373.0	2366.6	2359.6	2353.2	2349.0	2343.8	2342.1	2341.5
35°	2480.7	2469.8	2458.4	2451.2	2440.4	2434.9	2427.1	2415.6	2407.5	2406.9	2402.2
37.5°	2606.8	2601.6	2593.4	2585.8	2582.3	2567.6	2558.3	2552.6	2543.1	2549.0	2539.1
40°	2788.1	2796.9	2804.4	2799.9	2801.4	2797.5	2791.9	2797.4	2790.9	2789.2	2791.0
42.5°	3020.5	3051.3	3072.7	3079.5	3096.8	3103.6	3116.1	3135.8	3131.7	3153.9	3158.0
45°	3289.6	3333.7	3376.6	3408.6	3443.4	3482.9	3522.3	3553.7	3578.3	3577.1	3604.0
47.5°	3564.2	3629.4	3686.3	3734.4	3797.1	3855.1	3918.9	3983.3	4030.1	4047.7	4053.5
50°	3842.4	3917.6	3995.6	4066.3	4150.8	4243.7	4344.0	4444.5	4494.7	4535.7	4563.2
52.5°	4133.9	4219.9	4303.1	4402.8	4507.1	4629.7	4755.1	4898.1	4974.1	5051.2	5092.1
55°	4411.0	4507.3	4593.0	4726.4	4854.4	5000.7	5164.5	5345.1	5476.7	5567.3	5647.4
57.5°	4663.0	4765.3	4870.6	5021.1	5184.4	5355.3	5563.0	5782.4	5925.6	6083.4	6225.4
60°	4909.0	5037.6	5158.7	5355.4	5549.7	5762.1	6020.6	6298.5	6520.0	6734.6	6898.3
62.5°	5235.2	5400.4	5550.9	5798.3	6052.1	6314.6	6622.2	6950.7	7272.2	7563.4	7783.7
65°	5717.1	5959.9	6185.2	6498.5	6818.9	7164.5	7531.7	7951.5	8337.2	8722.5	9038.0
67.5°	6082.8	6390.3	6679.7	7058.5	7435.6	7836.1	8279.9	8775.7	9253.1	9687.4	10072.0
69°	6011.0	6337.2	6650.4	7037.2	7429.3	7838.3	8285.9	8813.1	9309.2	9780.9	10193.6
70°	5792.6	6132.4	6457.0	6840.7	7237.9	7648.0	8116.5	8634.2	9142.0	9644.7	10061.5
72.5°	4800.8	5141.6	5456.9	5849.7	6249.4	6680.2	7123.9	7628.2	8170.7	8707.8	9073.1
75°	3442.0	3743.4	4048.8	4381.1	4771.1	5126.2	5532.0	6013.2	6469.2	6886.0	7165.3
77.5°	2034.4	2214.8	2432.7	2588.9	2815.4	3010.8	3217.4	3484.7	3625.0	3893.9	3962.8
80°	828.9	823.9	856.3	824.3	831.4	805.2	777.3	772.1	728.3	783.3	742.3
82.5°	526.5	489.8	450.6	396.4	348.6	298.4	252.4	214.0	206.9	208.1	205.8
85°	346.8	331.0	295.7	248.6	202.7	162.6	130.0	102.9	101.8	99.9	99.3
87.5°	62.8	58.2	48.0	40.9	34.5	25.8	18.1	13.4	12.8	12.8	15.2
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):

	84°	85°	86°	87°	88°	89°	90°
0°	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8	2052.8
2.5°	2057.4	2057.4	2056.8	2058.1	2057.4	2055.6	2053.9
5°	2084.3	2082.0	2083.7	2085.5	2082.6	2083.2	2082.0
7.5°	2129.3	2128.8	2129.3	2127.5	2126.4	2128.2	2129.9
10°	2192.4	2191.3	2190.7	2192.4	2191.3	2190.1	2190.7
12.5°	2263.2	2263.2	2262.5	2263.2	2262.5	2260.9	2259.6
15°	2325.8	2326.9	2326.9	2325.7	2325.1	2324.5	2325.1
17.5°	2364.3	2363.7	2363.7	2363.7	2363.1	2363.7	2364.9
20°	2374.2	2372.5	2372.5	2373.6	2372.5	2373.6	2374.2
22.5°	2360.8	2360.8	2360.9	2361.3	2362.5	2362.5	2363.7
25°	2343.8	2343.8	2343.8	2344.9	2344.9	2345.5	2346.2
27.5°	2330.4	2330.3	2330.3	2331.5	2331.5	2332.1	2333.3
30°	2326.3	2326.3	2325.7	2326.3	2326.9	2326.9	2327.5
32.5°	2342.2	2340.3	2339.7	2338.6	2337.3	2337.4	2336.9
35°	2397.6	2392.9	2393.5	2390.0	2391.2	2388.3	2385.9
37.5°	2532.7	2527.9	2522.6	2515.7	2511.6	2516.9	2516.9
40°	2785.1	2788.0	2775.2	2771.6	2764.1	2769.3	2776.4
42.5°	3160.4	3163.9	3166.2	3146.9	3146.3	3142.3	3130.5
45°	3605.2	3597.0	3600.5	3591.6	3588.2	3575.4	3591.1
47.5°	4075.7	4081.0	4059.9	4052.9	4065.1	4044.1	4047.0
50°	4578.9	4580.1	4564.3	4560.8	4571.9	4532.1	4550.9
52.5°	5121.3	5123.7	5135.9	5121.3	5127.2	5117.8	5136.5
55°	5698.3	5742.0	5746.2	5761.9	5763.1	5782.4	5763.1
57.5°	6304.4	6354.1	6400.8	6464.5	6478.6	6470.9	6483.2
60°	7034.4	7164.7	7234.8	7334.8	7350.6	7393.9	7356.4
62.5°	7990.6	8193.4	8346.6	8423.7	8470.5	8561.1	8531.3
65°	9328.0	9569.4	9801.9	9913.0	10035.8	10164.3	10187.8
67.5°	10423.3	10691.5	10933.6	11125.8	11275.4	11370.2	11377.7
69°	10560.1	10845.3	11100.2	11314.1	11459.6	11556.6	11582.3
70°	10436.7	10728.4	10998.4	11202.4	11364.9	11463.7	11498.2
72.5°	9456.6	9803.7	10020.0	10228.1	10457.2	10486.9	10581.6
75°	7485.6	7797.2	8009.4	8064.2	8184.1	8334.9	8281.1
77.5°	3904.4	4040.0	4085.0	3989.2	3984.5	4072.8	3897.4
80°	743.4	744.7	732.4	727.6	736.5	727.7	715.4
82.5°	209.9	206.9	205.2	209.9	209.3	208.7	212.7
85°	97.0	94.0	89.5	89.4	91.7	88.3	90.0
87.5°	13.4	11.2	11.2	11.2	10.6	10.6	10.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)