

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: P180287

Luminaire Tested: **ICM-E04-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180287
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-E04-LED-E1-RW-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10616.8 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

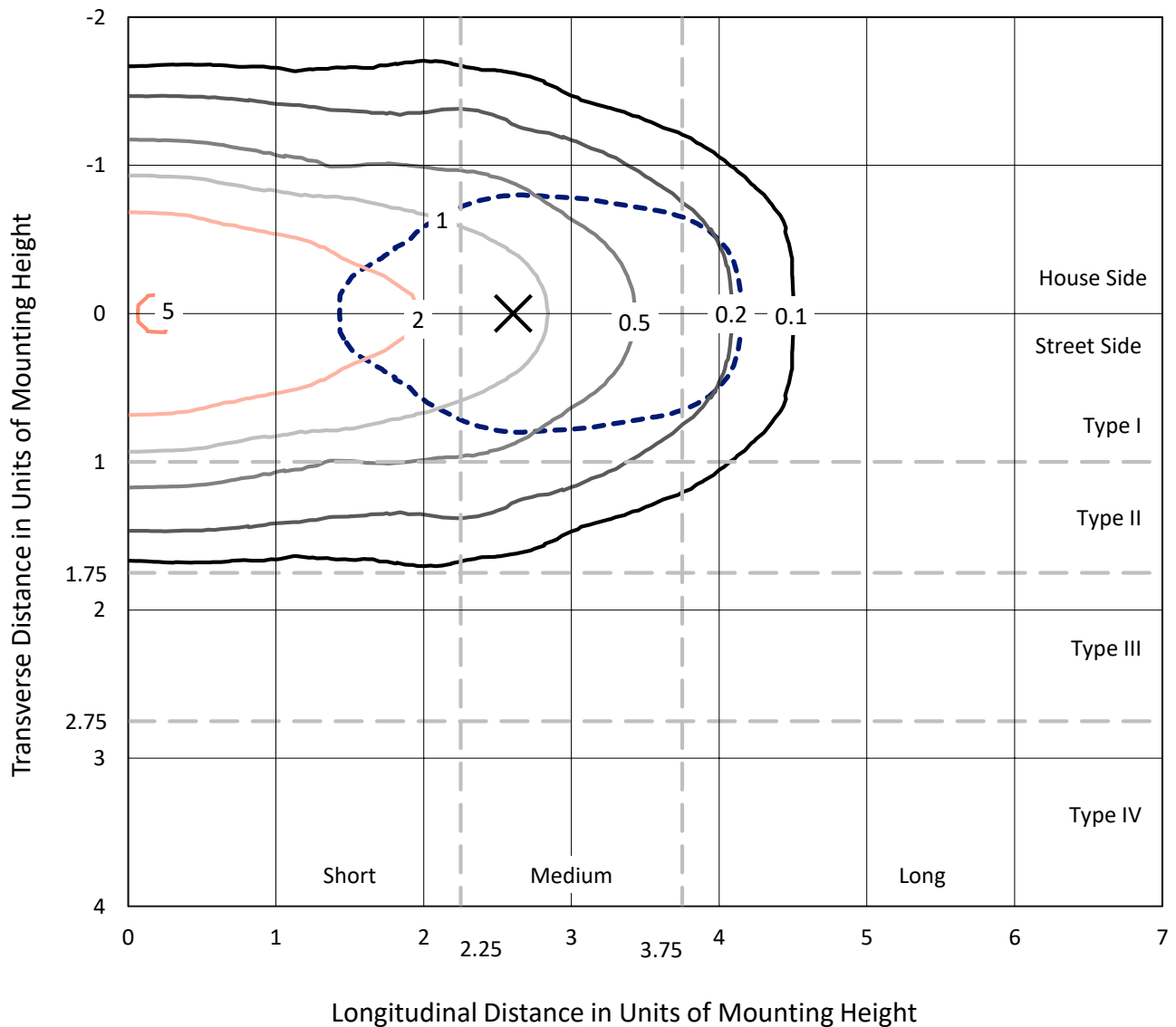
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

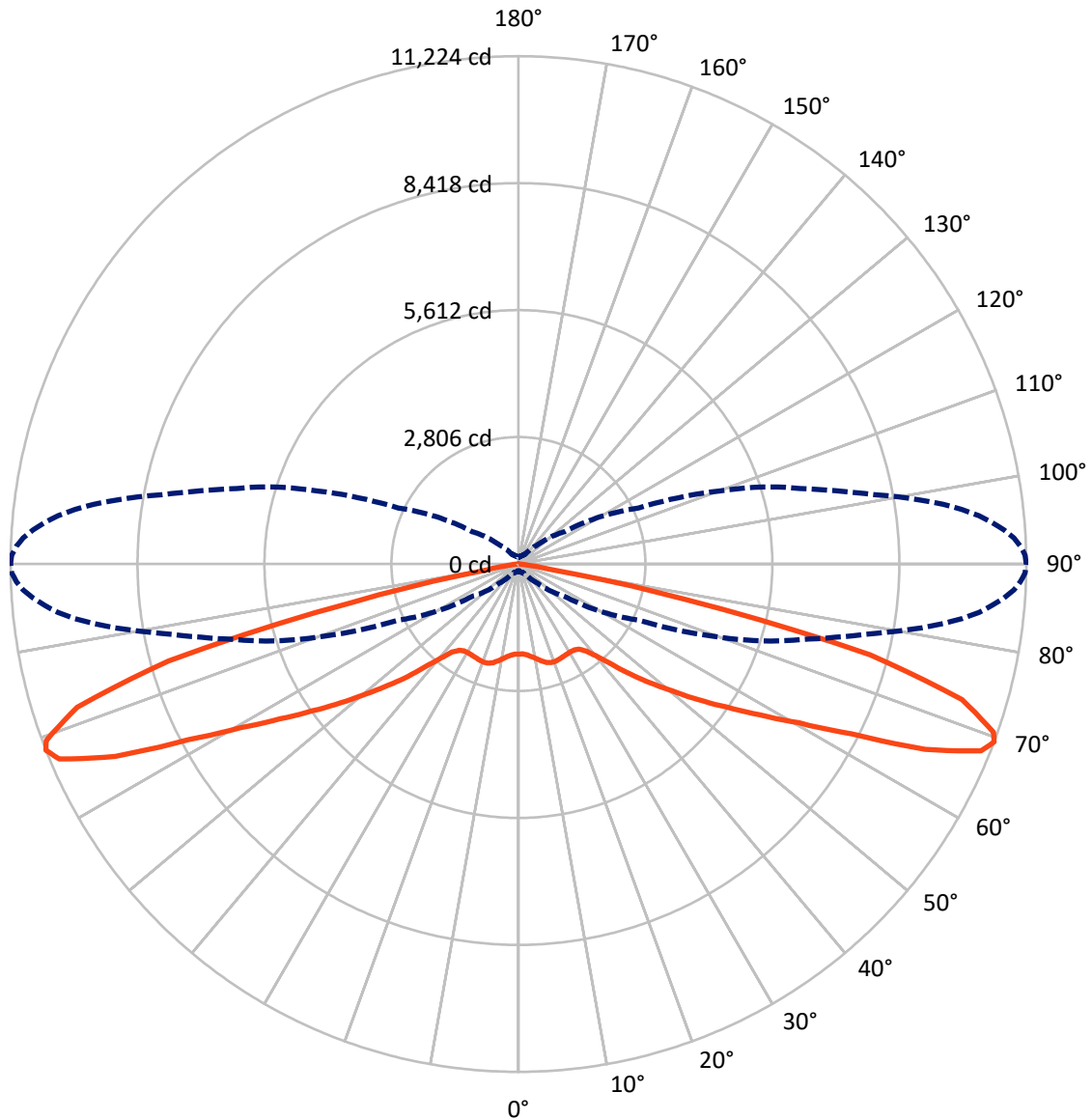
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 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	5308.4	0.0	5308.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5308.4	0.0	5308.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10616.8	0.0	10616.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	1.8
10°-20°	615.5	5.8
20°-30°	997.2	9.4
30°-40°	1242.8	11.7
40°-50°	1553.1	14.6
50°-60°	1917.7	18.1
60°-70°	2382.8	22.4
70°-80°	1581.9	14.9
80°-90°	130.6	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°	10616.8	100.0
0°-180°	10616.8	100.0



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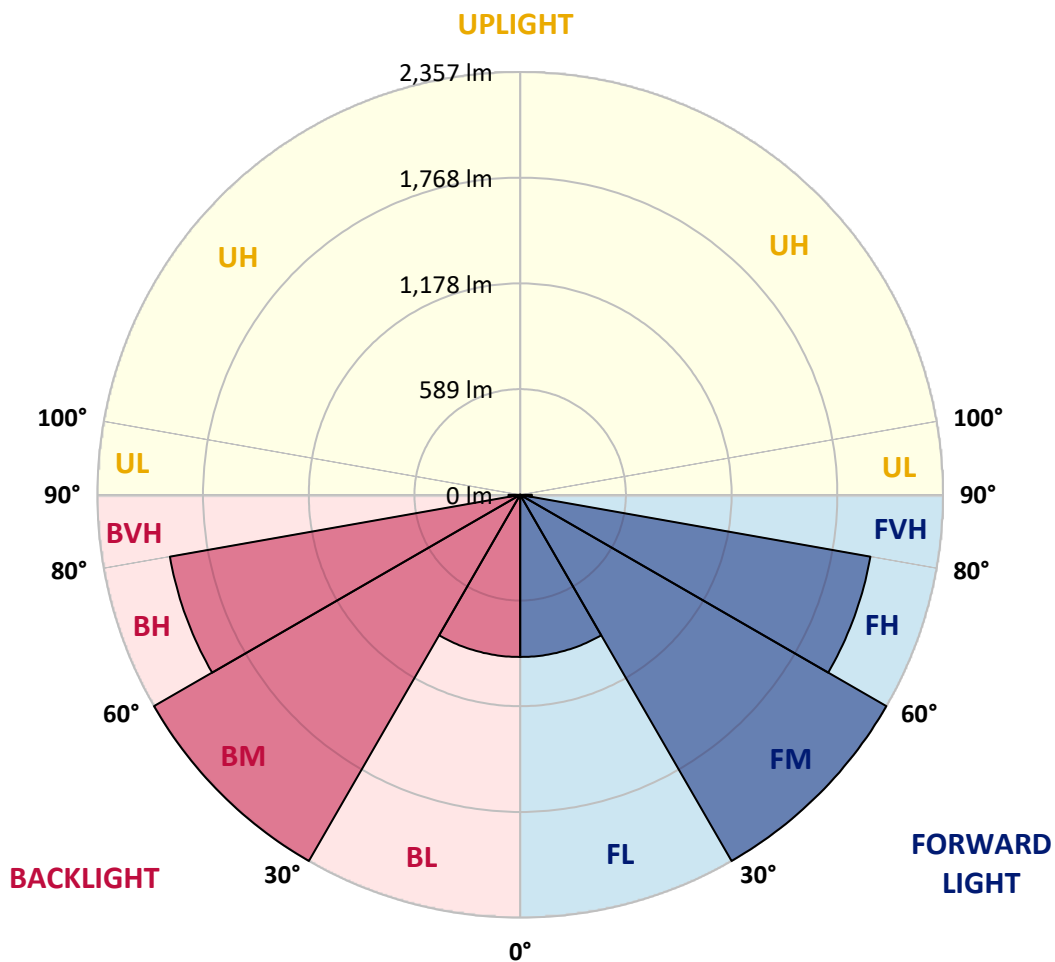
CATALOG NUMBER: ICM-E04-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	904.0	8.5			
FM	(30°-60°)	2356.8	22.2			
FH	(60°-80°)	1982.4	18.7			G2/5000
FVH	(80°-90°)	65.3	0.6			G1/100
BL	(0°-30°)	904.0	8.5	B2/1000		
BM	(30°-60°)	2356.8	22.2	B2/2500		
BH	(60°-80°)	1982.4	18.7	B3/2500		G3/2500
BVH	(80°-90°)	65.3	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°	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1998.3	2000.0	1998.9	2001.1	2000.6	2000.6	1999.5	1997.2	1995.7	1994.8	1995.0
5°	2017.6	2015.3	2018.7	2022.2	2021.0	2021.6	2021.0	2021.0	2019.8	2019.7	2019.6
7.5°	2038.0	2037.4	2039.6	2048.8	2049.9	2053.2	2057.2	2060.1	2060.7	2061.2	2060.7
10°	2055.5	2056.1	2061.8	2074.8	2081.6	2092.4	2103.1	2111.6	2114.7	2116.7	2116.5
12.5°	2069.8	2070.3	2078.7	2099.2	2115.5	2136.0	2159.3	2172.2	2177.9	2178.9	2179.9
15°	2070.8	2072.6	2087.3	2120.7	2153.5	2187.0	2214.7	2232.2	2236.9	2239.8	2240.1
17.5°	2056.1	2057.3	2082.2	2131.5	2186.4	2238.5	2267.4	2275.4	2277.0	2278.2	2277.6
20°	2017.6	2020.5	2055.5	2128.6	2212.5	2280.4	2310.4	2299.6	2294.3	2293.7	2293.0
22.5°	1955.3	1954.7	2000.6	2099.2	2217.6	2313.3	2339.9	2311.5	2294.9	2291.4	2289.1
25°	1854.5	1861.2	1915.1	2032.8	2188.7	2320.6	2360.9	2317.8	2293.7	2288.3	2281.8
27.5°	1745.1	1749.1	1806.3	1932.7	2121.3	2295.2	2371.0	2330.2	2303.3	2295.8	2288.3
30°	1617.7	1622.8	1683.9	1816.0	2013.0	2229.4	2368.3	2358.5	2327.1	2318.2	2308.6
32.5°	1493.1	1498.8	1553.7	1698.1	1899.2	2139.4	2351.3	2398.8	2366.5	2356.6	2346.6
35°	1363.9	1372.5	1439.3	1585.4	1789.3	2039.1	2325.2	2450.3	2432.6	2423.7	2414.9
37.5°	1256.8	1258.6	1323.2	1476.7	1687.4	1943.5	2290.6	2515.5	2528.5	2528.5	2529.6
40°	1137.4	1148.1	1212.7	1374.7	1595.1	1862.3	2257.8	2603.8	2671.6	2683.9	2693.5
42.5°	1030.3	1031.4	1097.1	1264.3	1494.8	1797.2	2239.6	2710.3	2855.1	2881.5	2907.9
45°	917.6	922.1	981.6	1143.1	1379.2	1720.2	2239.1	2833.3	3064.4	3108.8	3149.8
47.5°	811.2	812.8	875.7	1025.8	1246.7	1612.6	2235.1	2965.2	3279.8	3345.3	3398.8
50°	709.1	707.4	769.2	913.7	1115.8	1471.6	2200.6	3114.8	3512.1	3586.6	3652.6
52.5°	592.5	600.4	664.4	802.6	996.8	1328.2	2099.7	3278.4	3753.7	3839.8	3922.6
55°	478.0	481.5	550.0	679.1	876.3	1194.6	1924.1	3429.1	3989.3	4087.1	4179.2
57.5°	352.3	362.5	422.5	550.0	753.9	1081.9	1701.0	3507.4	4189.0	4301.8	4411.1
60°	248.7	256.6	309.8	416.9	619.6	963.5	1509.0	3463.6	4349.5	4493.5	4625.1
62.5°	193.7	199.9	242.4	312.1	483.2	845.1	1371.4	3322.6	4528.0	4715.8	4895.1
65°	170.0	175.6	214.1	249.8	360.8	724.5	1296.0	3173.7	4767.0	5043.7	5293.7
67.5°	153.5	160.3	193.7	218.6	294.0	632.2	1276.1	3079.6	4884.2	5244.5	5581.5
69°	146.1	152.9	183.0	203.9	272.9	599.3	1242.2	2931.8	4725.9	5111.1	5479.2
70°	141.6	147.3	175.0	196.6	266.2	576.6	1185.5	2747.2	4509.1	4897.8	5282.5
72.5°	131.3	134.2	158.5	179.5	246.9	466.2	912.0	2040.2	3567.6	3946.7	4320.1
75°	116.1	119.4	142.2	162.6	192.6	289.5	577.1	1262.0	2402.2	2684.6	3031.1
77.5°	100.3	103.1	123.0	155.3	149.6	180.7	344.9	702.3	1363.6	1527.8	1753.0
80°	80.4	83.8	101.4	154.0	123.5	140.5	248.1	491.2	669.5	718.4	772.5
82.5°	59.0	61.8	79.3	124.7	94.6	105.9	189.2	416.3	478.3	500.5	511.3
85°	30.0	30.6	50.4	75.9	60.1	54.9	106.5	284.8	324.6	330.1	338.5
87.5°	5.1	5.1	11.3	13.0	14.7	9.1	13.6	48.7	56.4	56.0	60.7
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1995.7	1995.4	1996.1	1996.2	1996.8	1994.7	1994.2	1993.8	1993.8	1995.0	1993.9
5°	2020.1	2020.0	2020.5	2021.3	2021.1	2019.7	2019.5	2019.9	2018.2	2017.6	2018.7
7.5°	2061.8	2061.2	2060.1	2061.9	2063.2	2063.3	2064.5	2063.5	2062.9	2062.3	2063.5
10°	2118.4	2118.2	2118.4	2120.4	2121.7	2121.9	2123.3	2121.9	2121.3	2122.4	2122.4
12.5°	2182.1	2180.9	2183.5	2184.7	2186.3	2189.8	2188.1	2190.3	2188.7	2191.5	2191.5
15°	2242.0	2242.8	2245.2	2246.3	2246.7	2249.5	2249.9	2251.5	2249.3	2249.9	2254.3
17.5°	2279.3	2278.7	2280.4	2281.3	2282.8	2284.3	2286.9	2288.4	2287.3	2287.3	2289.4
20°	2291.8	2290.1	2290.6	2291.5	2291.6	2292.9	2294.9	2295.1	2295.1	2295.7	2298.0
22.5°	2285.6	2282.8	2279.8	2280.1	2280.3	2280.0	2281.3	2282.1	2283.3	2284.4	2287.3
25°	2277.0	2270.5	2265.1	2264.7	2263.1	2263.2	2263.8	2264.0	2265.1	2266.8	2269.0
27.5°	2277.9	2269.2	2260.6	2257.5	2254.4	2252.6	2251.7	2250.4	2251.5	2253.2	2255.5
30°	2297.3	2283.7	2271.4	2267.5	2263.1	2259.2	2255.9	2252.1	2249.9	2251.5	2252.7
32.5°	2331.5	2318.2	2305.9	2299.6	2293.4	2286.6	2280.4	2276.5	2271.3	2269.7	2269.0
35°	2403.9	2393.4	2382.3	2375.4	2364.9	2359.6	2352.0	2341.0	2333.1	2332.5	2328.0
37.5°	2526.2	2521.1	2513.1	2505.9	2502.4	2488.3	2479.2	2473.5	2464.5	2470.2	2460.5
40°	2702.0	2710.3	2717.7	2713.4	2714.8	2711.0	2705.6	2710.9	2704.7	2703.0	2704.7
42.5°	2927.0	2956.9	2977.7	2984.2	3001.0	3007.6	3019.8	3038.9	3034.9	3056.4	3060.4
45°	3187.9	3230.6	3272.2	3303.1	3337.0	3375.3	3413.5	3443.9	3467.6	3466.5	3492.5
47.5°	3454.0	3517.2	3572.4	3619.0	3679.7	3735.9	3797.7	3860.1	3905.5	3922.4	3928.1
50°	3723.7	3796.5	3872.0	3940.5	4022.5	4112.4	4209.7	4307.0	4355.8	4395.4	4422.1
52.5°	4006.1	4089.5	4170.0	4266.6	4367.8	4486.5	4608.0	4746.6	4820.3	4895.0	4934.6
55°	4274.6	4367.9	4451.0	4580.2	4704.4	4846.1	5004.8	5179.9	5307.4	5395.2	5472.8
57.5°	4518.8	4618.0	4720.0	4865.8	5024.0	5189.7	5391.0	5603.6	5742.4	5895.3	6033.0
60°	4757.1	4881.9	4999.3	5189.8	5378.1	5583.9	5834.5	6103.8	6318.5	6526.4	6684.9
62.5°	5073.3	5233.4	5379.3	5619.0	5865.0	6119.4	6417.4	6735.9	7047.4	7329.5	7543.0
65°	5540.3	5775.6	5993.9	6297.6	6608.1	6943.0	7298.8	7705.6	8079.5	8452.7	8758.6
67.5°	5894.7	6192.7	6473.1	6840.2	7205.7	7593.8	8023.9	8504.2	8967.0	9387.9	9760.6
69°	5825.2	6141.2	6444.7	6819.6	7199.6	7596.0	8029.7	8540.5	9021.5	9478.5	9878.4
70°	5613.5	5942.7	6257.3	6629.2	7014.1	7411.6	7865.6	8367.1	8859.4	9346.6	9750.4
72.5°	4652.3	4982.6	5288.1	5668.8	6056.2	6473.6	6903.6	7392.4	7918.0	8438.6	8792.6
75°	3335.6	3627.6	3923.6	4245.6	4623.7	4967.7	5361.0	5827.4	6269.2	6673.0	6943.8
77.5°	1971.5	2146.3	2357.4	2508.9	2728.4	2917.8	3118.0	3377.0	3513.0	3773.5	3840.3
80°	803.4	798.4	829.8	798.8	805.7	780.3	753.2	748.2	705.8	759.1	719.4
82.5°	510.2	474.6	436.7	384.2	337.8	289.2	244.6	207.3	200.6	201.7	199.4
85°	336.1	320.7	286.6	240.9	196.5	157.6	126.1	99.7	98.6	96.9	96.3
87.5°	60.8	56.5	46.4	39.6	33.4	24.9	17.6	13.0	12.5	12.5	14.7
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):

	84°	85°	86°	87°	88°	89°	90°
0°	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1993.9	1993.9	1993.2	1994.3	1993.8	1992.1	1990.4
5°	2019.8	2017.6	2019.4	2021.0	2018.2	2018.7	2017.6
7.5°	2063.5	2062.9	2063.5	2061.8	2060.7	2062.3	2064.0
10°	2124.7	2123.5	2122.9	2124.7	2123.5	2122.4	2123.0
12.5°	2193.1	2193.2	2192.7	2193.2	2192.7	2190.9	2189.8
15°	2253.8	2254.9	2254.9	2253.8	2253.2	2252.7	2253.2
17.5°	2291.2	2290.6	2290.6	2290.6	2290.1	2290.6	2291.7
20°	2300.9	2299.1	2299.1	2300.3	2299.2	2300.3	2300.9
22.5°	2287.8	2287.8	2287.8	2288.4	2289.5	2289.5	2290.6
25°	2271.3	2271.4	2271.4	2272.5	2272.5	2273.0	2273.6
27.5°	2258.3	2258.3	2258.3	2259.5	2259.5	2260.0	2261.1
30°	2254.3	2254.3	2253.8	2254.3	2254.9	2254.9	2255.5
32.5°	2269.7	2267.9	2267.4	2266.2	2265.1	2265.1	2264.6
35°	2323.5	2318.9	2319.5	2316.1	2317.2	2314.4	2312.1
37.5°	2454.3	2449.8	2444.7	2437.9	2433.9	2439.1	2439.0
40°	2699.0	2701.8	2689.3	2686.0	2678.6	2683.7	2690.5
42.5°	3062.6	3066.1	3068.3	3049.7	3049.0	3045.0	3033.8
45°	3493.7	3485.8	3489.1	3480.7	3477.2	3464.8	3480.1
47.5°	3949.6	3954.8	3934.3	3927.7	3939.5	3919.1	3921.9
50°	4437.4	4438.5	4423.3	4419.7	4430.5	4392.0	4410.2
52.5°	4963.0	4965.2	4977.1	4963.0	4968.7	4959.6	4977.7
55°	5522.1	5564.5	5568.5	5583.8	5585.0	5603.6	5585.0
57.5°	6109.4	6157.6	6202.8	6264.6	6278.2	6270.9	6282.7
60°	6816.9	6943.2	7011.2	7108.0	7123.4	7165.3	7129.0
62.5°	7743.6	7940.1	8088.5	8163.2	8208.6	8296.4	8267.5
65°	9039.5	9273.5	9498.8	9606.6	9725.5	9850.1	9872.7
67.5°	10101.0	10361.0	10595.5	10781.8	10926.9	11018.7	11026.0
69°	10233.6	10509.9	10756.9	10964.2	11105.3	11199.3	11224.3
70°	10114.1	10396.7	10658.4	10856.1	11013.5	11109.3	11142.7
72.5°	9164.1	9500.5	9710.2	9911.9	10133.8	10162.8	10254.5
75°	7254.2	7556.0	7761.7	7814.9	7931.0	8077.3	8025.1
77.5°	3783.7	3915.1	3958.7	3865.9	3861.3	3946.8	3776.9
80°	720.5	721.7	709.8	705.1	713.7	705.1	693.3
82.5°	203.4	200.6	198.8	203.4	202.8	202.2	206.1
85°	94.0	91.2	86.7	86.7	88.9	85.5	87.3
87.5°	13.0	10.8	10.8	10.8	10.2	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)