

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: P180288

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180288
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
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11624 lumens
Efficiency: N/A
Efficacy: 119.6 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

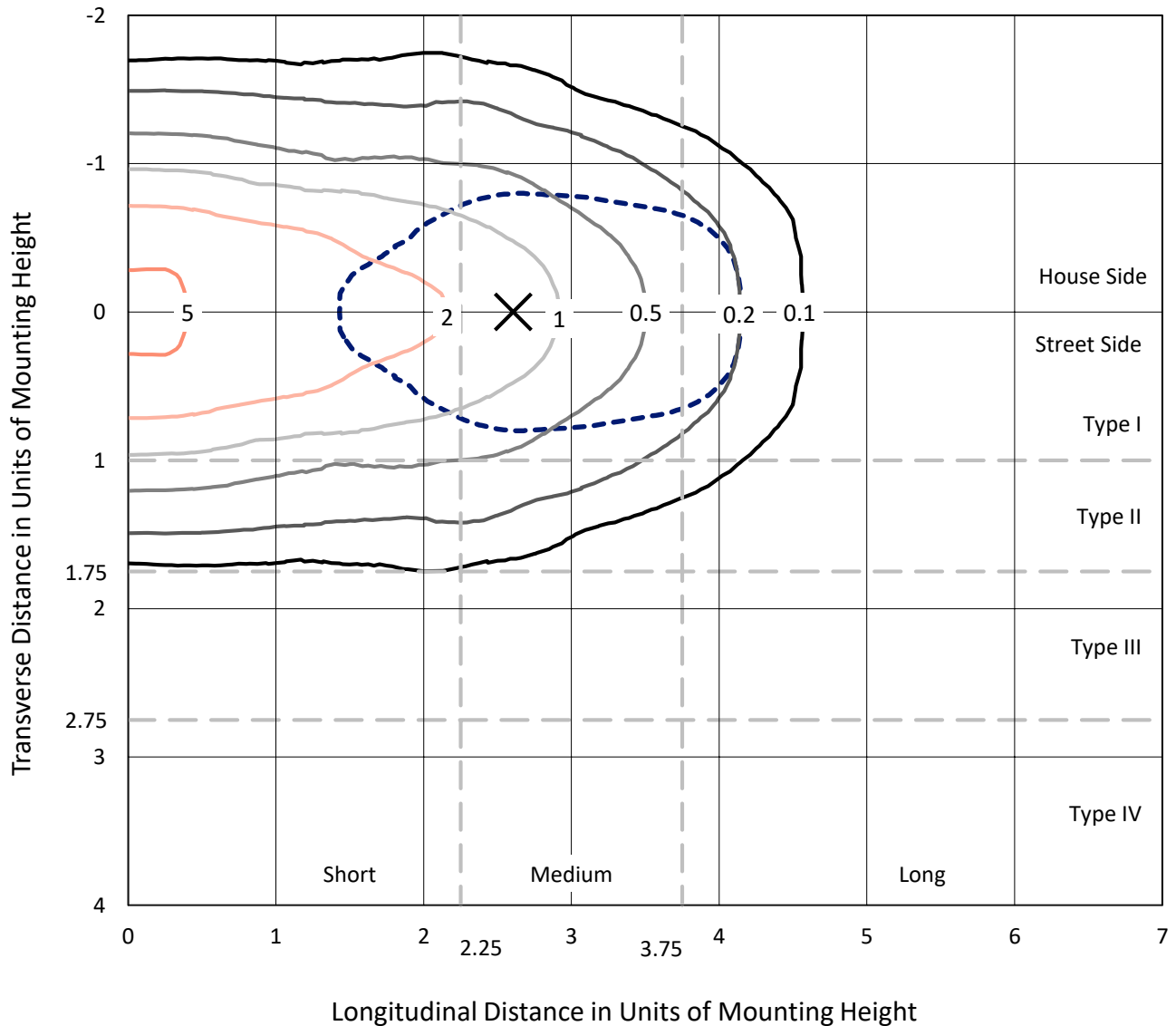
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

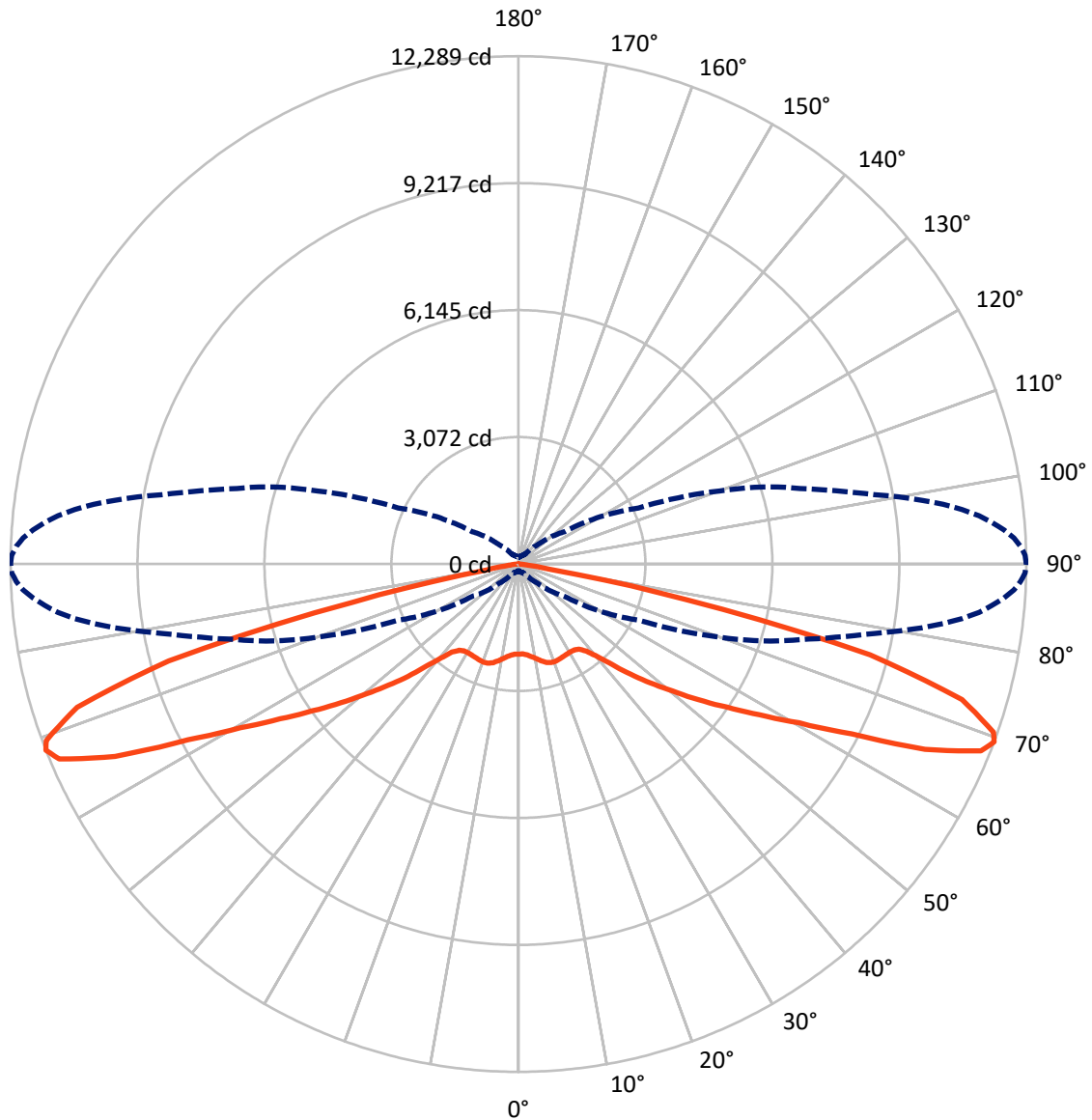
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.6 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	5812.0	0.0	5812.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5812.0	0.0	5812.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11624.0	0.0	11624.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	1.8
10°-20°	673.9	5.8
20°-30°	1091.9	9.4
30°-40°	1360.7	11.7
40°-50°	1700.4	14.6
50°-60°	2099.6	18.1
60°-70°	2608.9	22.4
70°-80°	1732.0	14.9
80°-90°	143.0	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°	11624.0	100.0
0°-180°	11624.0	100.0



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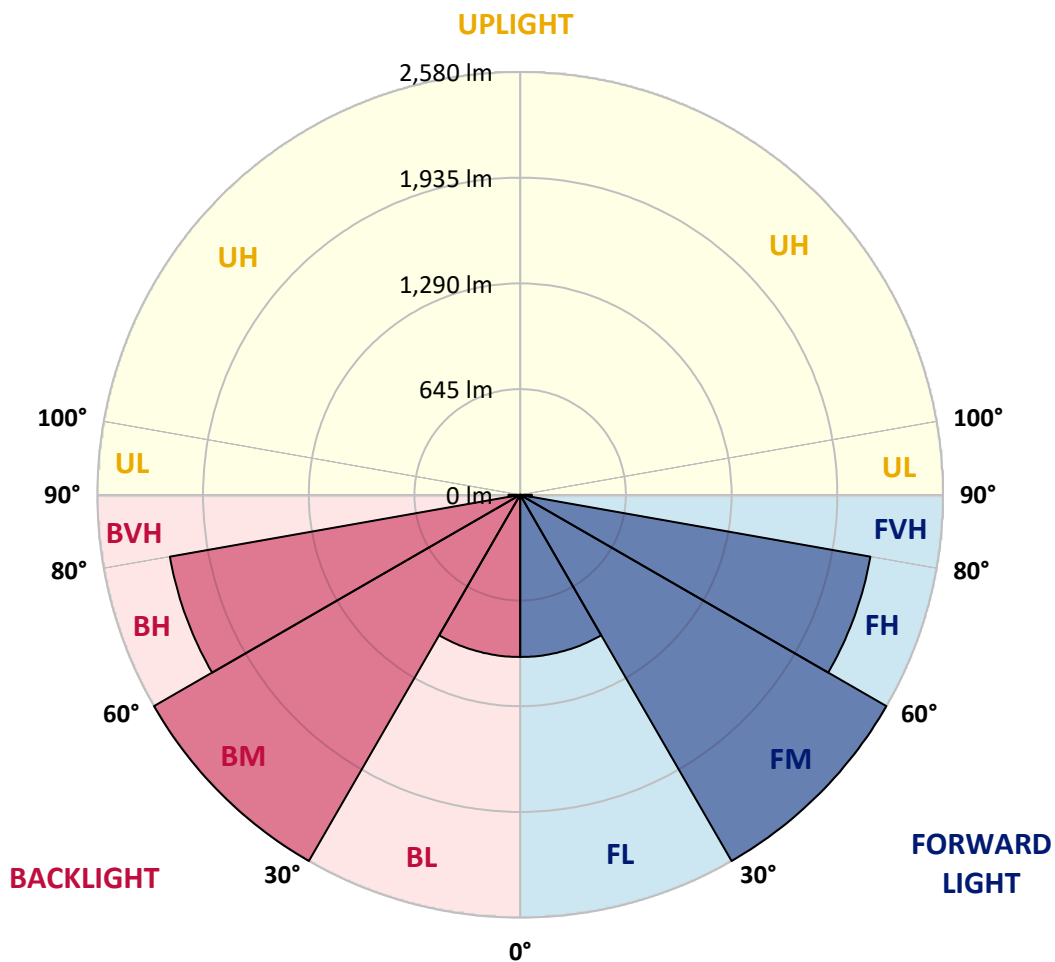
CATALOG NUMBER: ICM-E04-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	989.7	8.5			
FM (30°-60°)	2580.4	22.2			
FH (60°-80°)	2170.4	18.7			G2/5000
FVH (80°-90°)	71.5	0.6			G1/100
BL (0°-30°)	989.7	8.5	B2/1000		
BM (30°-60°)	2580.4	22.2	B3/5000		
BH (60°-80°)	2170.4	18.7	B3/2500		G3/2500
BVH (80°-90°)	71.5	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°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2187.9	2189.8	2188.6	2191.1	2190.3	2190.3	2189.1	2186.6	2185.1	2184.1	2184.2
5°	2208.9	2206.5	2210.2	2214.0	2212.7	2213.3	2212.7	2212.7	2211.5	2211.4	2211.2
7.5°	2231.4	2230.7	2233.1	2243.1	2244.3	2248.1	2252.5	2255.5	2256.1	2256.8	2256.2
10°	2250.6	2251.2	2257.3	2271.6	2279.1	2290.8	2302.7	2312.0	2315.4	2317.6	2317.2
12.5°	2266.1	2266.6	2276.0	2298.2	2316.3	2338.6	2364.0	2378.3	2384.6	2385.7	2386.8
15°	2267.4	2269.2	2285.2	2321.9	2357.9	2394.4	2424.8	2444.1	2448.9	2452.3	2452.7
17.5°	2251.2	2252.5	2279.6	2333.7	2393.9	2450.8	2482.5	2491.2	2493.0	2494.2	2493.7
20°	2208.9	2212.1	2250.6	2330.6	2422.3	2496.8	2529.6	2517.9	2511.9	2511.3	2510.6
22.5°	2140.8	2140.1	2190.3	2298.2	2427.9	2532.8	2561.9	2530.8	2512.6	2508.8	2506.2
25°	2030.4	2037.8	2096.8	2225.7	2396.3	2540.9	2584.8	2537.7	2511.4	2505.4	2498.3
27.5°	1910.7	1915.0	1977.7	2115.9	2322.4	2512.9	2595.9	2551.4	2521.9	2513.6	2505.4
30°	1771.2	1776.8	1843.7	1988.3	2204.1	2440.9	2592.9	2582.3	2547.9	2538.1	2527.6
32.5°	1634.8	1640.9	1701.1	1859.3	2079.5	2342.3	2574.3	2626.4	2591.1	2580.1	2569.2
35°	1493.4	1502.6	1575.8	1735.8	1959.1	2232.6	2545.8	2682.8	2663.3	2653.7	2644.0
37.5°	1376.2	1378.0	1448.8	1616.8	1847.5	2127.8	2507.9	2754.2	2768.4	2768.4	2769.6
40°	1245.2	1257.0	1327.7	1505.1	1746.4	2039.1	2472.0	2850.8	2924.9	2938.6	2949.0
42.5°	1128.1	1129.3	1201.3	1384.2	1636.7	1967.7	2452.1	2967.5	3125.9	3154.9	3183.8
45°	1004.7	1009.7	1074.8	1251.5	1510.1	1883.4	2451.5	3102.0	3355.0	3403.7	3448.6
47.5°	888.0	889.9	958.7	1123.2	1365.0	1765.6	2447.1	3246.5	3591.1	3662.6	3721.2
50°	776.4	774.5	842.2	1000.4	1221.8	1611.2	2409.3	3410.3	3845.3	3926.9	3999.1
52.5°	648.7	657.3	727.4	878.7	1091.5	1454.3	2299.0	3589.5	4109.8	4204.2	4294.9
55°	523.4	527.1	602.1	743.5	959.4	1307.9	2106.7	3754.4	4367.7	4474.8	4575.7
57.5°	385.8	396.9	462.7	602.2	825.5	1184.6	1862.3	3840.0	4586.4	4709.9	4829.6
60°	272.3	280.9	339.3	456.4	678.4	1054.9	1652.1	3792.2	4762.2	4919.8	5063.8
62.5°	212.1	219.0	265.4	341.7	528.9	925.3	1501.4	3637.9	4957.6	5163.2	5359.6
65°	186.0	192.2	234.4	273.5	395.1	793.2	1418.9	3474.7	5219.2	5522.2	5795.8
67.5°	168.0	175.4	212.1	239.4	321.9	692.1	1397.2	3371.7	5347.6	5742.0	6111.0
69°	160.0	167.4	200.4	223.3	299.0	656.1	1360.0	3209.9	5174.3	5595.9	5999.0
70°	155.0	161.3	191.6	215.3	291.4	631.4	1298.1	3007.8	4936.8	5362.4	5783.7
72.5°	143.8	147.0	173.7	196.6	270.3	510.3	998.5	2233.8	3906.1	4321.1	4730.0
75°	127.1	130.8	155.6	178.0	210.8	316.8	632.0	1381.8	2630.1	2939.3	3318.6
77.5°	109.8	112.9	134.6	169.9	163.7	197.8	377.7	769.0	1493.0	1672.8	1919.4
80°	88.1	91.7	111.1	168.7	135.3	153.8	271.6	537.7	733.0	786.6	845.8
82.5°	64.6	67.6	86.9	136.4	103.5	115.9	207.1	455.8	523.7	548.0	559.8
85°	32.8	33.5	55.3	83.2	65.8	60.1	116.7	311.9	355.4	361.4	370.6
87.5°	5.6	5.6	12.4	14.2	16.2	10.0	14.9	53.3	61.7	61.3	66.4
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°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2185.0	2184.6	2185.4	2185.5	2186.3	2183.9	2183.5	2183.0	2182.9	2184.2	2182.9
5°	2211.7	2211.6	2212.1	2213.0	2212.9	2211.4	2211.2	2211.5	2209.7	2208.9	2210.2
7.5°	2257.4	2256.8	2255.5	2257.5	2258.8	2259.0	2260.4	2259.2	2258.6	2258.0	2259.3
10°	2319.5	2319.1	2319.5	2321.5	2323.0	2323.3	2324.8	2323.2	2322.4	2323.7	2323.7
12.5°	2389.1	2387.7	2390.7	2391.9	2393.9	2397.5	2395.6	2398.2	2396.3	2399.5	2399.4
15°	2454.7	2455.6	2458.2	2459.5	2459.9	2462.9	2463.4	2465.1	2462.6	2463.3	2468.2
17.5°	2495.5	2494.9	2496.8	2497.7	2499.4	2500.9	2503.8	2505.5	2504.2	2504.2	2506.6
20°	2509.3	2507.4	2507.9	2508.9	2509.0	2510.5	2512.6	2512.9	2512.9	2513.5	2515.9
22.5°	2502.4	2499.3	2496.1	2496.4	2496.6	2496.3	2497.8	2498.6	2499.9	2501.0	2504.2
25°	2493.0	2485.9	2480.0	2479.6	2477.8	2478.0	2478.6	2478.8	2480.0	2481.9	2484.3
27.5°	2494.1	2484.6	2475.1	2471.7	2468.4	2466.2	2465.4	2463.9	2465.1	2467.0	2469.4
30°	2515.3	2500.4	2486.9	2482.6	2477.8	2473.5	2470.0	2465.7	2463.3	2465.1	2466.4
32.5°	2552.7	2538.1	2524.7	2517.9	2511.1	2503.6	2496.8	2492.5	2486.8	2485.0	2484.3
35°	2631.9	2620.5	2608.4	2600.7	2589.3	2583.5	2575.2	2563.2	2554.4	2553.9	2548.9
37.5°	2765.9	2760.3	2751.6	2743.6	2739.8	2724.4	2714.4	2708.3	2698.2	2704.6	2694.0
40°	2958.3	2967.6	2975.6	2970.8	2972.3	2968.2	2962.3	2968.0	2961.3	2959.4	2961.2
42.5°	3204.8	3237.4	3260.2	3267.4	3285.8	3293.0	3306.3	3327.1	3322.8	3346.3	3350.7
45°	3490.4	3537.1	3582.7	3616.6	3653.4	3695.5	3737.3	3770.6	3796.7	3795.4	3823.8
47.5°	3781.8	3850.9	3911.4	3962.3	4028.8	4090.4	4158.0	4226.4	4275.9	4294.6	4300.9
50°	4077.0	4156.7	4239.5	4314.4	4404.1	4502.6	4609.1	4715.7	4769.1	4812.5	4841.5
52.5°	4386.2	4477.4	4565.6	4671.5	4782.2	4912.1	5045.2	5196.9	5277.6	5359.4	5402.8
55°	4680.2	4782.3	4873.1	5014.7	5150.6	5305.8	5479.7	5671.4	5810.9	5907.0	5992.0
57.5°	4947.5	5056.1	5167.8	5327.4	5500.7	5682.0	5902.5	6135.3	6287.1	6454.6	6605.2
60°	5208.5	5345.1	5473.5	5682.2	5888.3	6113.7	6388.0	6682.8	6917.8	7145.4	7319.1
62.5°	5554.6	5729.9	5889.6	6152.0	6421.3	6699.9	7026.3	7374.9	7716.0	8024.8	8258.7
65°	6065.9	6323.5	6562.6	6895.0	7235.0	7601.6	7991.2	8436.7	8846.0	9254.6	9589.5
67.5°	6454.0	6780.1	7087.1	7489.2	7889.3	8314.2	8785.1	9311.1	9817.7	10278.5	10686.6
69°	6377.8	6723.9	7056.2	7466.7	7882.7	8316.6	8791.5	9350.8	9877.3	10377.7	10815.6
70°	6146.1	6506.6	6850.9	7258.1	7679.6	8114.7	8611.8	9161.0	9700.0	10233.3	10675.4
72.5°	5093.6	5455.4	5789.8	6206.5	6630.7	7087.9	7558.6	8093.6	8669.2	9239.1	9626.7
75°	3652.0	3971.7	4295.8	4648.3	5062.3	5438.9	5869.5	6380.1	6863.9	7306.1	7602.6
77.5°	2158.5	2350.0	2581.1	2746.9	2987.2	3194.5	3413.7	3697.3	3846.2	4131.6	4204.7
80°	879.5	874.1	908.5	874.5	882.1	854.3	824.7	819.2	772.7	831.0	787.5
82.5°	558.6	519.6	478.1	420.7	369.9	316.7	267.7	227.0	219.5	220.8	218.2
85°	368.0	351.2	313.8	263.8	215.1	172.6	138.0	109.2	107.9	106.0	105.5
87.5°	66.6	61.9	50.8	43.4	36.6	27.3	19.3	14.3	13.7	13.6	16.1
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°	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0	2178.0
2.5°	2182.9	2183.0	2182.3	2183.6	2183.0	2181.0	2179.3
5°	2211.5	2208.9	2210.8	2212.7	2209.7	2210.2	2209.0
7.5°	2259.3	2258.6	2259.2	2257.4	2256.2	2258.0	2259.8
10°	2326.2	2325.0	2324.3	2326.2	2324.9	2323.7	2324.4
12.5°	2401.3	2401.3	2400.6	2401.2	2400.6	2398.8	2397.5
15°	2467.6	2468.9	2468.9	2467.5	2467.0	2466.4	2467.0
17.5°	2508.5	2507.9	2507.9	2507.9	2507.3	2507.9	2509.1
20°	2519.1	2517.2	2517.2	2518.5	2517.2	2518.4	2519.1
22.5°	2504.8	2504.8	2504.8	2505.4	2506.6	2506.7	2507.9
25°	2486.9	2486.8	2486.8	2488.0	2488.1	2488.7	2489.3
27.5°	2472.6	2472.6	2472.6	2473.9	2473.9	2474.4	2475.6
30°	2468.2	2468.3	2467.6	2468.3	2468.9	2468.9	2469.5
32.5°	2485.0	2483.2	2482.4	2481.3	2480.0	2480.0	2479.4
35°	2543.8	2539.0	2539.6	2535.8	2537.1	2534.0	2531.5
37.5°	2687.2	2682.2	2676.6	2669.2	2664.9	2670.3	2670.4
40°	2955.1	2958.2	2944.6	2940.9	2932.7	2938.3	2945.8
42.5°	3353.1	3356.9	3359.4	3339.0	3338.3	3334.0	3321.6
45°	3825.1	3816.4	3820.1	3810.9	3807.1	3793.5	3810.3
47.5°	4324.3	4329.9	4307.6	4300.1	4313.1	4290.8	4294.0
50°	4858.3	4859.6	4842.8	4839.1	4850.8	4808.8	4828.6
52.5°	5433.8	5436.3	5449.3	5433.8	5440.0	5430.2	5450.0
55°	6046.0	6092.5	6096.8	6113.5	6114.8	6135.3	6114.7
57.5°	6689.0	6741.8	6791.3	6859.0	6873.9	6865.7	6878.8
60°	7463.6	7601.9	7676.3	7782.4	7799.1	7845.0	7805.4
62.5°	8478.2	8693.4	8855.9	8937.7	8987.4	9083.4	9051.9
65°	9897.2	10153.2	10400.1	10517.8	10648.1	10784.5	10809.4
67.5°	11059.2	11344.0	11600.7	11804.7	11963.4	12064.0	12072.0
69°	11204.3	11507.0	11777.5	12004.4	12158.9	12261.8	12289.1
70°	11073.6	11383.0	11669.6	11885.9	12058.3	12163.1	12199.8
72.5°	10033.5	10401.9	10631.4	10852.2	11095.3	11126.9	11227.3
75°	7942.4	8273.0	8498.1	8556.3	8683.4	8843.4	8786.4
77.5°	4142.7	4286.5	4334.3	4232.6	4227.6	4321.2	4135.2
80°	788.8	790.1	777.0	772.1	781.4	772.1	759.1
82.5°	222.7	219.5	217.7	222.7	222.0	221.4	225.8
85°	102.9	99.9	94.9	94.9	97.4	93.7	95.5
87.5°	14.2	11.7	11.7	11.7	11.2	11.2	11.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)