

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: P180303

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180303
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
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11994.9 lumens
Efficiency: N/A
Efficacy: 90.0 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

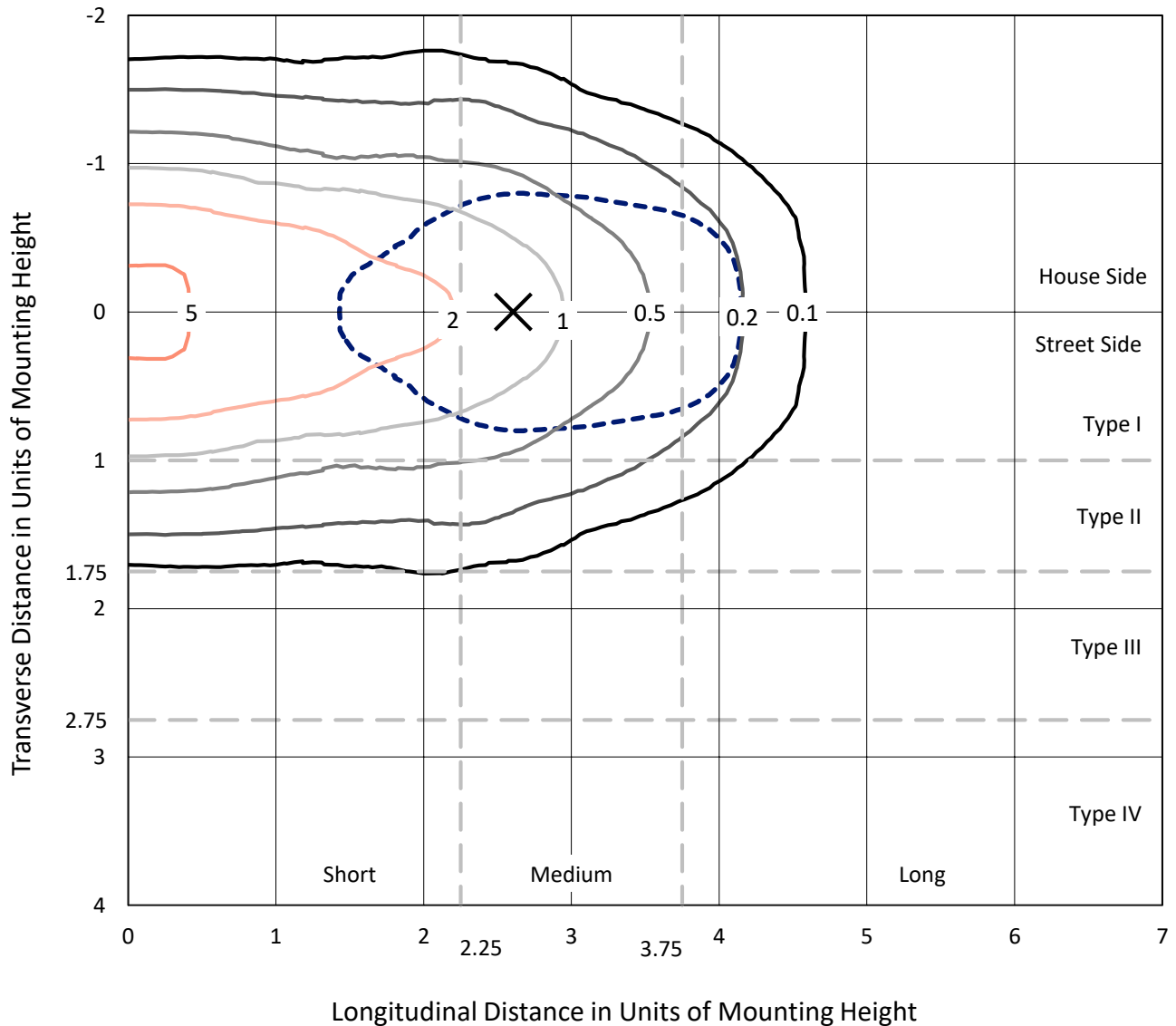
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

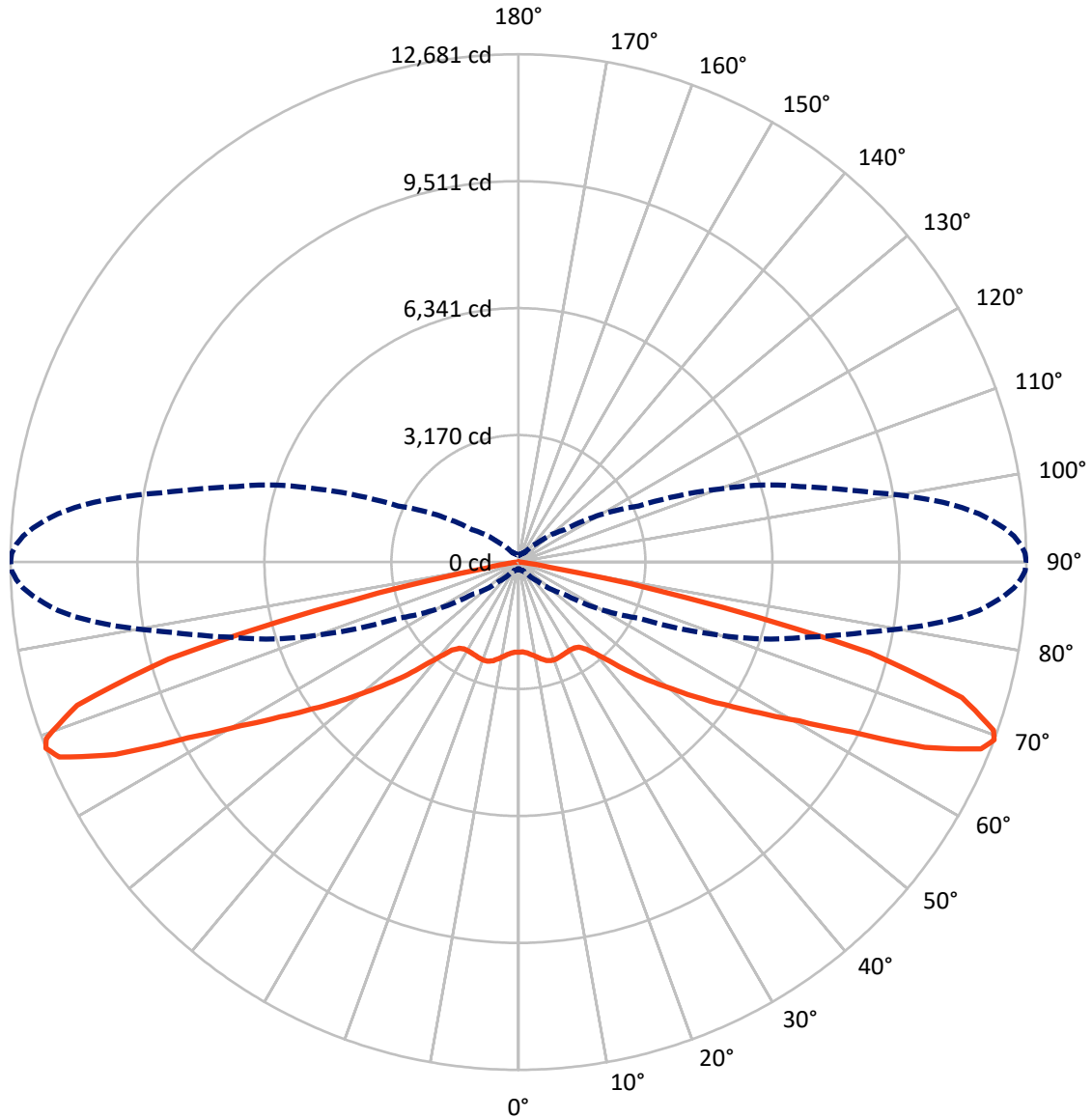
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.7 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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CATALOG NUMBER: ICM-F05-LED-E1-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5997.5	0.0	5997.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5997.5	0.0	5997.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	11994.9	0.0	11994.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.4	1.8
10°-20°	695.4	5.8
20°-30°	1126.7	9.4
30°-40°	1404.1	11.7
40°-50°	1754.7	14.6
50°-60°	2166.6	18.1
60°-70°	2692.1	22.4
70°-80°	1787.2	14.9
80°-90°	147.6	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°	11994.9	100.0
0°-180°	11994.9	100.0



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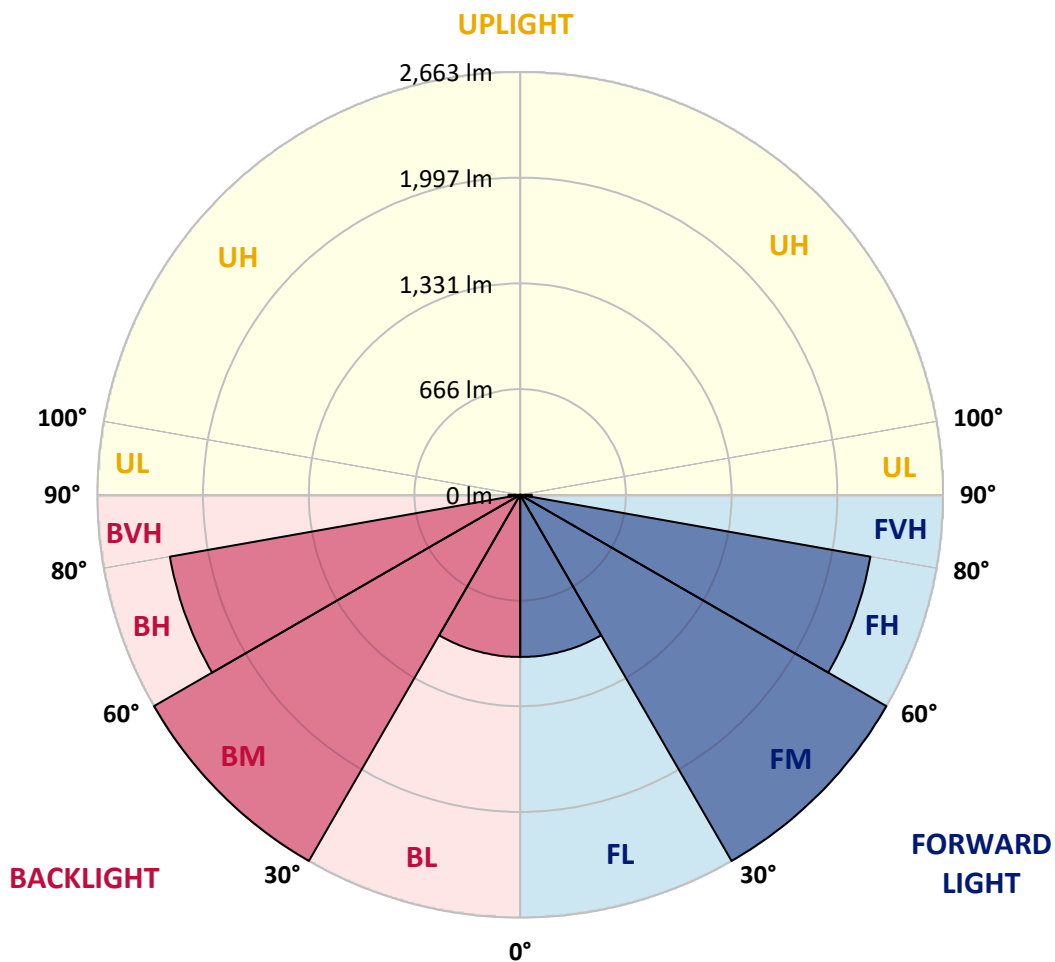
CATALOG NUMBER: ICM-F05-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1021.3	8.5			
FM	(30°-60°)	2662.7	22.2			
FH	(60°-80°)	2239.7	18.7			G2/5000
FVH	(80°-90°)	73.8	0.6			G1/100
BL	(0°-30°)	1021.3	8.5	B3/2500		
BM	(30°-60°)	2662.7	22.2	B3/5000		
BH	(60°-80°)	2239.7	18.7	B3/2500		G3/2500
BVH	(80°-90°)	73.8	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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2257.7	2259.6	2258.4	2260.9	2260.3	2260.3	2259.0	2256.5	2254.9	2253.8	2254.0
5°	2279.5	2276.9	2280.8	2284.6	2283.4	2283.9	2283.4	2283.4	2282.1	2281.9	2281.8
7.5°	2302.5	2301.9	2304.4	2314.7	2315.9	2319.8	2324.3	2327.5	2328.1	2328.8	2328.1
10°	2322.3	2323.0	2329.4	2344.1	2351.8	2363.9	2376.2	2385.7	2389.2	2391.5	2391.2
12.5°	2338.3	2339.0	2348.6	2371.6	2390.2	2413.2	2439.5	2454.2	2460.6	2461.8	2462.9
15°	2339.6	2341.6	2358.2	2395.9	2433.1	2470.9	2502.2	2522.0	2527.1	2530.6	2530.8
17.5°	2323.0	2324.3	2352.5	2408.1	2470.2	2529.0	2561.7	2570.6	2572.6	2573.9	2573.2
20°	2279.5	2282.7	2322.3	2404.9	2499.6	2576.4	2610.3	2598.2	2592.1	2591.5	2590.7
22.5°	2209.1	2208.4	2260.3	2371.6	2505.3	2613.6	2643.6	2611.6	2592.7	2588.9	2586.2
25°	2095.2	2102.9	2163.7	2296.8	2472.8	2621.9	2667.3	2618.6	2591.5	2585.4	2578.0
27.5°	1971.6	1976.2	2040.8	2183.5	2396.6	2593.0	2678.8	2632.7	2602.3	2593.8	2585.3
30°	1827.7	1833.5	1902.5	2051.7	2274.4	2518.9	2675.6	2664.8	2629.2	2619.0	2608.3
32.5°	1686.9	1693.3	1755.4	1918.5	2145.7	2417.1	2656.4	2710.2	2673.7	2662.4	2651.2
35°	1541.0	1550.6	1626.1	1791.3	2021.6	2303.8	2627.0	2768.4	2748.2	2738.2	2728.4
37.5°	1420.0	1422.0	1495.0	1668.3	1906.4	2195.6	2587.9	2842.0	2856.8	2856.7	2858.0
40°	1285.0	1297.1	1370.1	1553.1	1802.1	2104.2	2550.8	2941.8	3018.3	3032.3	3043.2
42.5°	1164.1	1165.4	1239.6	1428.4	1688.8	2030.5	2530.3	3062.2	3225.7	3255.6	3285.4
45°	1036.7	1041.9	1109.0	1291.4	1558.2	1943.5	2529.7	3201.0	3462.2	3512.2	3558.6
47.5°	916.4	918.3	989.4	1158.9	1408.6	1822.0	2525.2	3350.2	3705.6	3779.5	3839.9
50°	801.2	799.3	869.0	1032.2	1260.7	1662.6	2486.2	3519.1	3968.0	4052.1	4126.7
52.5°	669.4	678.3	750.7	906.8	1126.3	1500.7	2372.3	3704.0	4241.0	4338.3	4431.8
55°	540.1	544.0	621.4	767.3	990.0	1349.6	2173.9	3874.3	4507.1	4617.6	4721.7
57.5°	398.0	409.6	477.4	621.4	851.7	1222.3	1921.7	3962.5	4732.7	4860.1	4983.8
60°	280.9	289.9	350.0	471.0	700.1	1088.6	1704.8	3913.3	4914.2	5076.9	5225.4
62.5°	218.9	225.9	274.0	352.6	545.9	954.8	1549.3	3753.9	5115.8	5327.9	5530.5
65°	192.0	198.3	241.9	282.2	407.6	818.4	1464.2	3585.6	5385.8	5698.4	5980.9
67.5°	173.4	181.1	218.9	247.0	332.1	714.2	1441.8	3479.5	5518.3	5925.3	6306.0
69°	165.1	172.8	206.7	230.3	308.5	677.0	1403.4	3312.4	5339.4	5774.5	6190.4
70°	160.0	166.3	197.8	222.0	300.7	651.4	1339.4	3103.7	5094.3	5533.5	5968.2
72.5°	148.5	151.6	179.2	202.9	279.1	526.7	1030.3	2305.1	4030.7	4459.0	4880.9
75°	131.2	135.0	160.7	183.6	217.6	327.0	652.1	1425.9	2714.1	3033.0	3424.5
77.5°	113.3	116.5	138.9	175.3	168.9	204.1	389.8	793.5	1540.7	1726.1	1980.6
80°	90.9	94.7	114.6	174.1	139.5	158.7	280.4	554.8	756.4	811.7	872.7
82.5°	66.5	69.8	89.6	140.8	106.9	119.6	213.8	470.3	540.5	565.5	577.7
85°	34.0	34.6	56.9	85.8	67.9	62.1	120.3	321.9	366.7	373.0	382.4
87.5°	5.8	5.8	12.8	14.7	16.7	10.2	15.3	55.1	63.6	63.3	68.6
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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2254.8	2254.3	2255.2	2255.3	2256.1	2253.6	2253.1	2252.7	2252.7	2253.9	2252.6
5°	2282.3	2282.2	2282.7	2283.7	2283.5	2281.9	2281.6	2282.1	2280.1	2279.5	2280.8
7.5°	2329.4	2328.8	2327.5	2329.5	2331.0	2331.1	2332.5	2331.4	2330.7	2330.1	2331.3
10°	2393.4	2393.1	2393.4	2395.5	2397.1	2397.3	2398.9	2397.2	2396.6	2397.9	2397.9
12.5°	2465.3	2463.9	2467.0	2468.3	2470.2	2474.1	2472.1	2474.6	2472.8	2475.9	2475.9
15°	2533.0	2534.0	2536.8	2537.9	2538.4	2541.5	2542.0	2543.8	2541.2	2541.9	2547.0
17.5°	2575.1	2574.5	2576.4	2577.4	2579.1	2580.8	2583.7	2585.3	2584.1	2584.0	2586.6
20°	2589.3	2587.4	2587.9	2588.9	2589.0	2590.6	2592.8	2593.1	2593.0	2593.7	2596.3
22.5°	2582.3	2579.0	2575.8	2576.0	2576.3	2575.9	2577.4	2578.3	2579.6	2580.9	2584.1
25°	2572.6	2565.2	2559.1	2558.6	2556.9	2556.9	2557.7	2557.9	2559.1	2561.1	2563.6
27.5°	2573.6	2563.8	2554.1	2550.5	2547.1	2544.9	2544.0	2542.4	2543.8	2545.7	2548.3
30°	2595.5	2580.2	2566.2	2561.9	2556.9	2552.5	2548.8	2544.4	2541.9	2543.8	2545.0
32.5°	2634.2	2619.1	2605.2	2598.2	2591.1	2583.5	2576.4	2571.9	2566.2	2564.3	2563.6
35°	2715.9	2704.1	2691.6	2683.6	2671.9	2665.9	2657.3	2644.9	2635.9	2635.3	2630.2
37.5°	2854.2	2848.4	2839.5	2831.1	2827.3	2811.3	2801.0	2794.6	2784.4	2790.8	2779.9
40°	3052.7	3062.3	3070.4	3065.6	3067.1	3062.9	3056.8	3062.7	3055.7	3053.8	3055.7
42.5°	3307.0	3340.8	3364.2	3371.6	3390.5	3398.0	3411.8	3433.3	3428.9	3453.2	3457.6
45°	3601.7	3650.0	3697.0	3731.9	3770.1	3813.2	3856.6	3890.8	3917.8	3916.5	3945.9
47.5°	3902.3	3973.7	4036.1	4088.8	4157.3	4220.9	4290.7	4361.2	4412.5	4431.7	4438.0
50°	4207.0	4289.2	4374.7	4452.0	4544.6	4646.3	4756.2	4866.1	4921.1	4966.0	4996.1
52.5°	4526.1	4620.3	4711.3	4820.4	4934.7	5068.9	5206.2	5362.7	5446.0	5530.5	5575.3
55°	4829.5	4934.8	5028.7	5174.7	5315.0	5475.1	5654.5	5852.3	5996.3	6095.5	6183.1
57.5°	5105.3	5217.4	5332.7	5497.4	5676.2	5863.3	6090.7	6331.0	6487.8	6660.5	6816.0
60°	5374.6	5515.6	5648.2	5863.5	6076.1	6308.7	6591.9	6896.0	7138.6	7373.4	7552.6
62.5°	5731.8	5912.7	6077.6	6348.4	6626.3	6913.7	7250.5	7610.3	7962.2	8280.9	8522.1
65°	6259.5	6525.2	6771.9	7115.1	7465.9	7844.2	8246.2	8705.8	9128.2	9549.9	9895.5
67.5°	6659.9	6996.5	7313.3	7728.1	8141.0	8579.5	9065.4	9608.2	10131.0	10606.4	11027.5
69°	6581.3	6938.4	7281.3	7704.8	8134.1	8581.9	9072.0	9649.1	10192.4	10708.9	11160.6
70°	6342.1	6714.1	7069.4	7489.7	7924.6	8373.6	8886.6	9453.3	10009.5	10559.8	11016.1
72.5°	5256.1	5629.4	5974.5	6404.6	6842.3	7314.0	7799.7	8352.0	8945.8	9533.9	9933.8
75°	3768.5	4098.4	4433.0	4796.6	5223.8	5612.4	6056.8	6583.8	7082.8	7539.2	7845.1
77.5°	2227.4	2424.9	2663.5	2834.6	3082.5	3296.5	3522.6	3815.3	3969.0	4263.3	4338.8
80°	907.5	902.1	937.5	902.4	910.2	881.6	851.0	845.4	797.4	857.5	812.7
82.5°	576.5	536.2	493.4	434.0	381.7	326.8	276.4	234.2	226.6	227.8	225.3
85°	379.7	362.3	323.8	272.3	222.0	178.0	142.4	112.6	111.3	109.4	108.8
87.5°	68.7	63.8	52.5	44.8	37.8	28.2	19.9	14.7	14.1	14.1	16.7
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°	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5	2247.5
2.5°	2252.6	2252.7	2252.0	2253.2	2252.6	2250.7	2248.8
5°	2282.1	2279.5	2281.4	2283.4	2280.1	2280.8	2279.5
7.5°	2331.4	2330.6	2331.3	2329.3	2328.1	2330.1	2331.9
10°	2400.4	2399.1	2398.5	2400.4	2399.2	2397.9	2398.5
12.5°	2477.9	2477.9	2477.2	2477.8	2477.2	2475.4	2474.1
15°	2546.3	2547.6	2547.6	2546.3	2545.7	2545.1	2545.7
17.5°	2588.6	2587.9	2587.9	2587.9	2587.4	2587.9	2589.2
20°	2599.5	2597.6	2597.5	2598.9	2597.6	2598.9	2599.5
22.5°	2584.8	2584.8	2584.8	2585.4	2586.6	2586.6	2587.9
25°	2566.2	2566.2	2566.2	2567.5	2567.5	2568.1	2568.8
27.5°	2551.5	2551.5	2551.5	2552.8	2552.8	2553.4	2554.6
30°	2547.0	2547.0	2546.3	2547.0	2547.6	2547.6	2548.3
32.5°	2564.3	2562.3	2561.7	2560.4	2559.1	2559.1	2558.5
35°	2625.0	2619.9	2620.6	2616.8	2618.1	2614.9	2612.3
37.5°	2772.9	2767.8	2762.0	2754.3	2749.8	2755.6	2755.6
40°	3049.3	3052.5	3038.5	3034.6	3026.3	3032.0	3039.7
42.5°	3460.2	3464.0	3466.6	3445.5	3444.9	3440.4	3427.6
45°	3947.2	3938.3	3942.1	3932.5	3928.6	3914.5	3931.8
47.5°	4462.4	4468.1	4445.1	4437.4	4450.8	4427.7	4431.0
50°	5013.3	5014.6	4997.3	4993.5	5005.6	4962.2	4982.6
52.5°	5607.3	5609.7	5623.3	5607.2	5613.5	5603.3	5623.8
55°	6238.8	6286.8	6291.4	6308.6	6309.8	6331.0	6309.9
57.5°	6902.5	6956.9	7008.0	7077.8	7093.2	7084.9	7098.3
60°	7701.8	7844.5	7921.3	8030.7	8048.0	8095.3	8054.4
62.5°	8748.7	8970.8	9138.5	9222.9	9274.1	9373.3	9340.6
65°	10212.9	10477.2	10731.9	10853.5	10987.9	11128.6	11154.2
67.5°	11412.2	11705.9	11970.9	12181.4	12345.2	12448.8	12457.2
69°	11561.9	11874.2	12153.2	12387.4	12546.8	12653.0	12681.2
70°	11426.9	11746.2	12041.9	12265.2	12443.1	12551.2	12589.0
72.5°	10353.7	10733.8	10970.6	11198.4	11449.3	11481.9	11585.6
75°	8195.8	8536.9	8769.2	8829.3	8960.5	9125.6	9066.8
77.5°	4274.9	4423.3	4472.6	4367.7	4362.4	4459.2	4267.2
80°	814.0	815.3	801.9	796.7	806.3	796.7	783.3
82.5°	229.8	226.6	224.6	229.8	229.1	228.5	232.9
85°	106.2	103.1	97.9	97.9	100.5	96.6	98.5
87.5°	14.7	12.2	12.2	12.2	11.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)