

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: P180897

Luminaire Tested: **ICM-E05-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180897
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E05-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12549.6 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

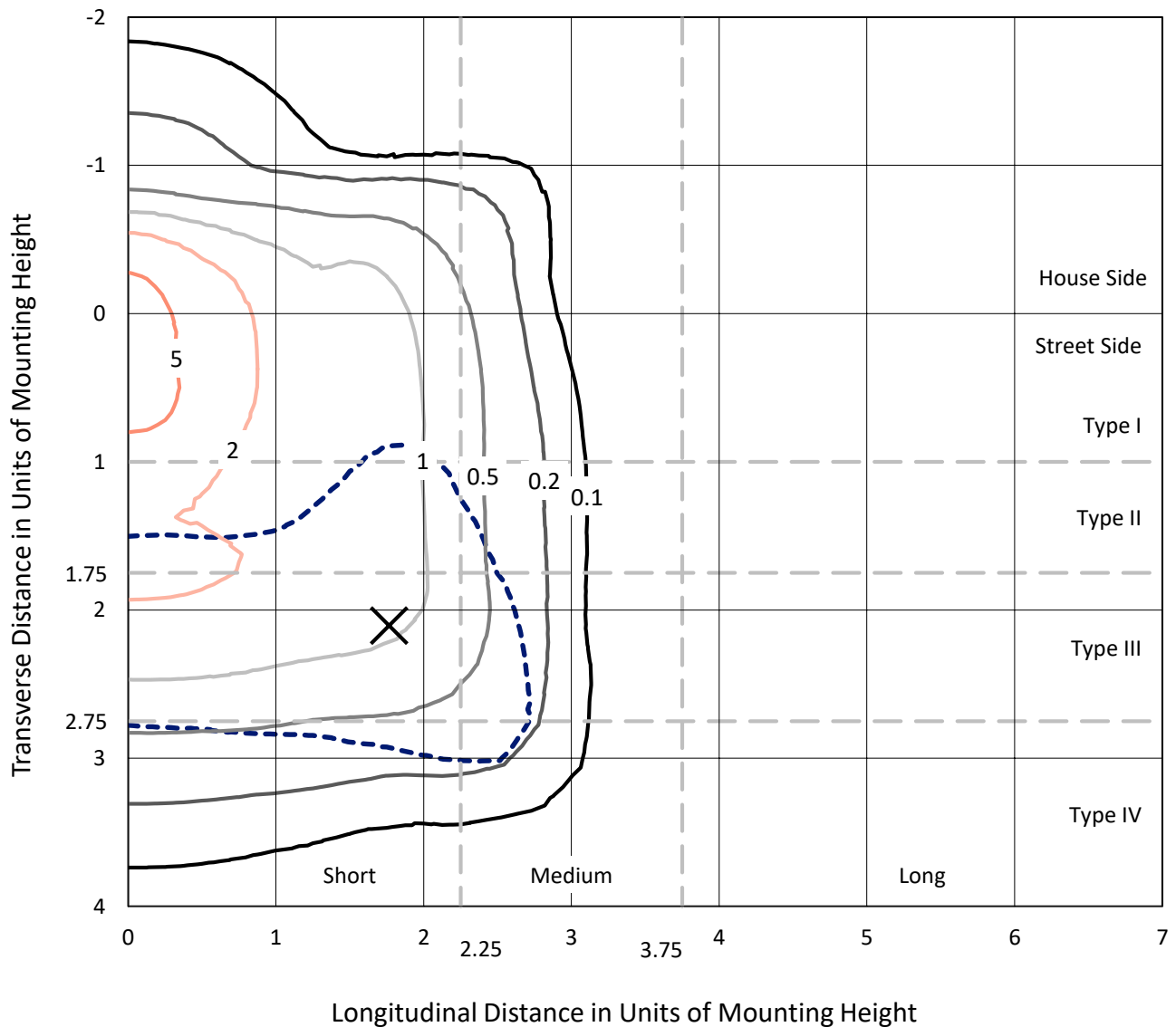
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

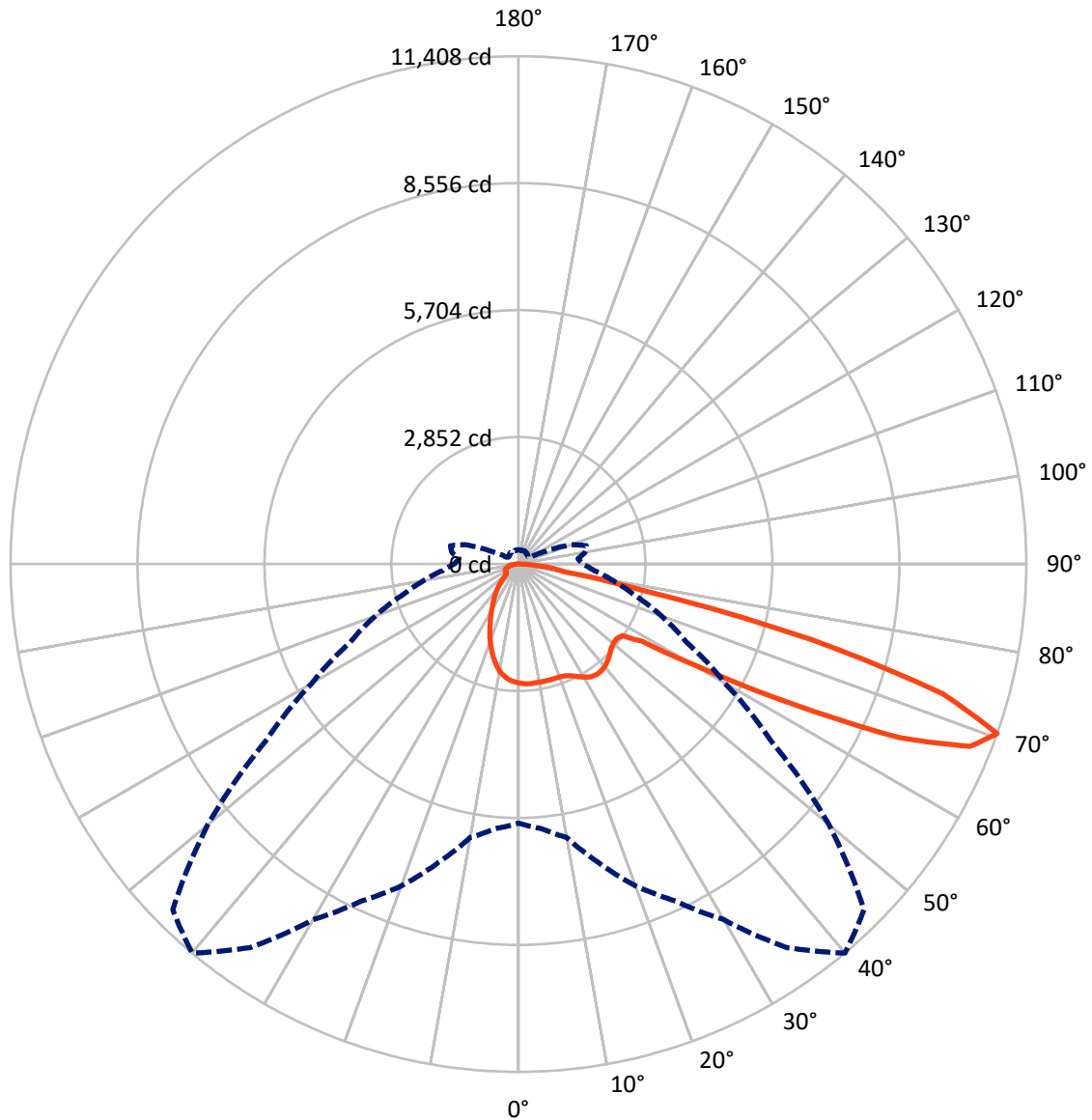
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2605.2	0.0	2605.2
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9944.4	0.0	9944.4
	% Fixture	79.2	0.0	79.2
Total	Lumens	12549.6	0.0	12549.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	2.0
10°-20°	684.8	5.5
20°-30°	1013.8	8.1
30°-40°	1281.2	10.2
40°-50°	1448.9	11.5
50°-60°	2061.9	16.4
60°-70°	3840.0	30.6
70°-80°	1759.9	14.0
80°-90°	208.9	1.7
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°	12549.6	100.0
0°-180°	12549.6	100.0



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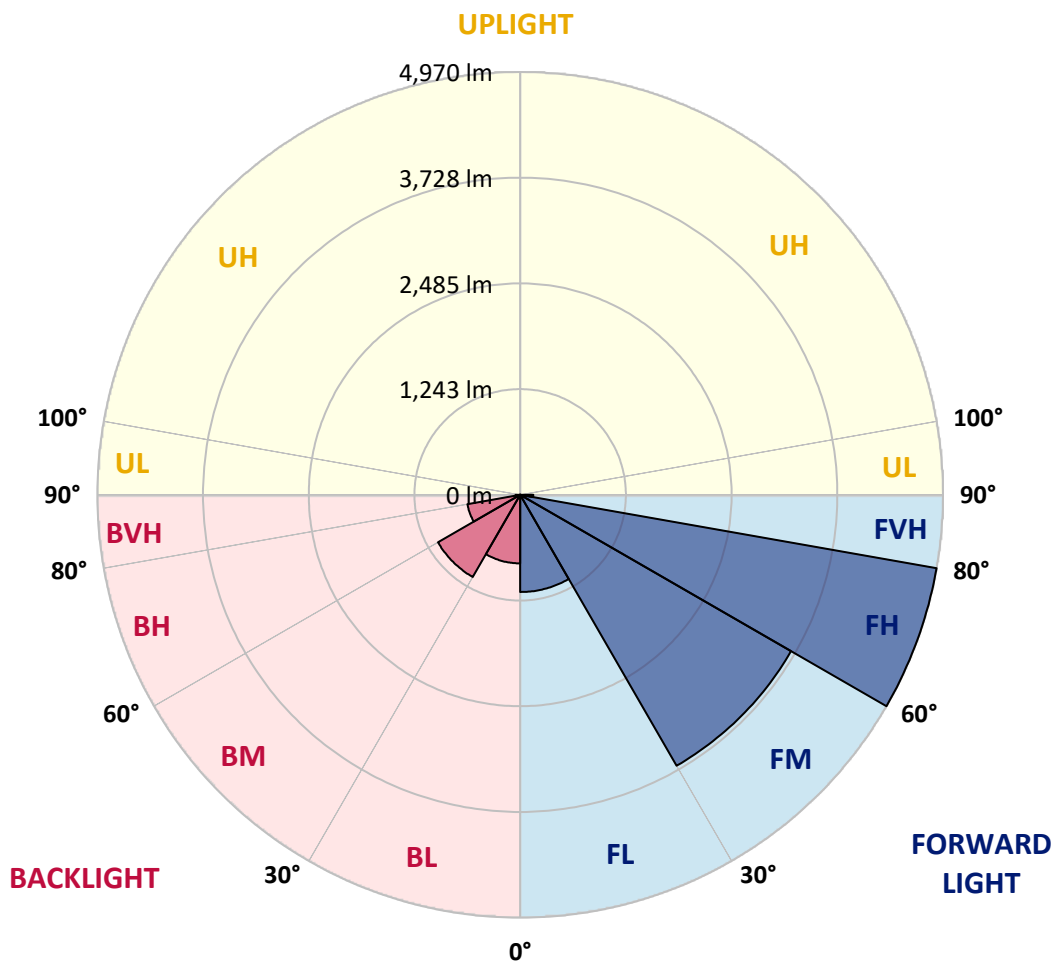
CATALOG NUMBER: ICM-E05-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1142.7	9.1			
FM	(30°-60°)	3676.6	29.3			
FH	(60°-80°)	4970.1	39.6			G2/5000
FVH	(80°-90°)	155.0	1.2			G2/225
BL	(0°-30°)	806.1	6.4	B2/1000		
BM	(30°-60°)	1115.4	8.9	B2/2500		
BH	(60°-80°)	629.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	53.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8
2.5°	2718.8	2725.9	2717.4	2716.0	2716.0	2714.6	2706.1	2704.7	2693.3	2694.7	2697.6
5°	2738.6	2741.5	2735.8	2734.4	2731.6	2725.9	2718.8	2710.3	2701.9	2693.3	2686.2
7.5°	2758.4	2755.6	2751.4	2751.4	2747.2	2738.6	2724.5	2713.1	2694.7	2684.9	2672.1
10°	2786.8	2782.5	2776.9	2774.1	2767.0	2754.2	2734.4	2718.8	2696.2	2676.4	2655.1
12.5°	2813.7	2812.3	2803.8	2799.6	2788.2	2775.5	2751.4	2727.4	2697.6	2666.4	2638.2
15°	2861.9	2856.2	2847.6	2839.2	2820.8	2803.8	2767.0	2738.6	2696.2	2655.1	2611.2
17.5°	2945.4	2935.5	2927.0	2908.6	2885.9	2856.2	2802.3	2754.2	2696.2	2636.7	2587.2
20°	3098.3	3077.1	3065.8	3041.7	3002.1	2948.2	2864.7	2786.8	2700.4	2623.9	2557.4
22.5°	3271.1	3257.0	3241.3	3225.8	3163.5	3085.6	2972.3	2856.2	2725.9	2618.2	2533.3
25°	3465.0	3446.7	3438.2	3411.3	3353.2	3264.0	3109.7	2948.2	2783.9	2640.9	2533.3
27.5°	3637.9	3632.2	3630.8	3599.6	3544.4	3439.6	3257.0	3062.9	2863.3	2687.6	2554.5
30°	3795.0	3789.3	3786.5	3769.5	3705.8	3581.2	3383.0	3164.9	2949.6	2752.9	2594.2
32.5°	3962.2	3943.7	3935.2	3902.6	3830.4	3684.6	3458.0	3231.5	3017.6	2816.6	2638.2
35°	4098.1	4082.4	4065.5	4018.7	3916.8	3744.0	3490.5	3254.1	3044.5	2851.9	2660.8
37.5°	4197.2	4181.6	4157.5	4098.1	3972.0	3763.8	3489.1	3247.0	3034.6	2846.2	2665.0
40°	4241.0	4225.5	4200.0	4125.0	3982.0	3752.6	3462.3	3214.4	3004.9	2816.6	2648.0
42.5°	4224.1	4212.8	4180.2	4107.9	3950.8	3701.6	3408.5	3153.6	2948.2	2768.4	2609.8
45°	4158.9	4150.4	4119.3	4042.8	3880.0	3619.5	3329.1	3077.1	2880.3	2708.9	2558.8
47.5°	4061.2	4058.4	4027.3	3952.2	3790.8	3537.3	3247.0	3002.1	2812.3	2650.9	2516.3
50°	3953.6	3939.5	3923.9	3854.5	3707.3	3466.5	3187.6	2955.3	2774.1	2629.6	2497.9
52.5°	3885.7	3881.4	3867.3	3805.0	3663.4	3425.4	3160.7	2938.3	2771.2	2625.4	2488.0
55°	4488.9	4498.8	4368.5	4098.1	3860.2	3538.7	3241.3	3024.7	2840.6	2693.3	2592.8
57.5°	6639.9	6595.9	6372.2	5835.6	5229.5	4429.4	3853.0	3503.3	3275.4	3300.9	3351.8
60°	7736.0	7727.4	7686.4	7478.2	7074.6	6465.7	5790.3	5015.7	4769.2	4796.2	4816.0
62.5°	8225.9	8238.7	8269.7	8191.9	8085.7	7908.7	7571.7	7260.1	6930.2	6807.0	6477.1
65°	8452.4	8475.1	8545.9	8589.8	8630.8	8662.0	8795.1	9160.4	9401.2	8950.8	7903.0
67.5°	7983.7	8092.8	8326.4	8554.4	8758.3	9048.6	9498.9	10347.1	10937.6	10384.0	8864.5
70°	5819.9	5968.7	6236.3	6941.5	7694.8	8353.4	9225.6	10517.1	11407.8	10980.1	9102.4
72.5°	3649.1	3690.3	3809.2	4068.3	4627.7	5473.1	6998.2	8935.3	9963.4	9622.1	7693.4
75°	2315.3	2329.4	2325.1	2384.7	2479.6	2663.6	3266.8	5277.6	6825.3	6293.0	4287.8
77.5°	1379.3	1400.5	1408.9	1427.4	1472.7	1537.9	1587.4	1795.5	2861.9	2778.3	1556.3
80°	1155.5	1172.5	1158.3	1154.1	1125.8	1106.0	1130.1	1106.0	1026.6	988.4	910.5
82.5°	611.7	610.3	606.1	647.2	730.7	795.8	845.4	834.1	754.8	642.9	545.2
85°	335.6	347.0	347.0	361.1	348.4	349.8	361.1	380.9	352.6	294.5	240.7
87.5°	28.3	43.9	35.4	43.9	59.4	42.5	41.0	41.0	35.4	25.5	22.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8
2.5°	2690.5	2687.6	2682.0	2677.8	2677.8	2670.7	2666.4	2663.6	2662.2	2656.5	2656.5
5°	2682.0	2672.1	2662.2	2655.1	2650.9	2643.7	2632.5	2626.8	2619.7	2614.1	2611.2
7.5°	2663.6	2645.2	2629.6	2618.2	2604.1	2592.8	2578.6	2565.9	2553.1	2547.5	2544.7
10°	2635.3	2611.2	2587.2	2565.9	2546.1	2526.2	2507.8	2489.4	2473.9	2462.5	2451.2
12.5°	2608.4	2571.6	2540.4	2509.2	2478.1	2454.1	2428.6	2401.6	2379.0	2357.7	2352.1
15°	2571.6	2529.0	2489.4	2451.2	2412.9	2373.3	2342.2	2312.4	2275.6	2251.5	2233.1
17.5°	2537.6	2486.6	2438.4	2393.1	2346.4	2305.3	2258.6	2219.0	2182.2	2145.3	2118.4
20°	2500.8	2445.5	2394.5	2343.5	2292.6	2240.2	2186.4	2135.5	2090.1	2046.2	2002.3
22.5°	2468.2	2411.5	2362.0	2306.7	2250.2	2190.6	2128.3	2064.6	2012.2	1955.5	1904.6
25°	2448.4	2386.1	2335.1	2281.2	2219.0	2153.8	2083.0	2008.0	1944.3	1879.1	1818.2
27.5°	2448.4	2367.6	2315.3	2261.4	2197.7	2128.3	2050.4	1968.3	1896.1	1823.9	1748.8
30°	2469.6	2370.4	2299.6	2243.0	2177.9	2102.8	2016.5	1930.1	1850.8	1765.8	1693.6
32.5°	2489.4	2376.1	2288.4	2216.1	2141.0	2067.5	1979.6	1887.6	1799.8	1719.1	1642.6
35°	2502.2	2376.1	2267.1	2175.1	2090.1	2017.9	1931.5	1839.5	1750.2	1671.0	1600.1
37.5°	2503.6	2364.9	2233.1	2128.3	2039.1	1964.1	1882.0	1795.5	1710.6	1636.9	1577.5
40°	2489.4	2342.2	2199.2	2078.8	1985.3	1908.8	1833.8	1755.9	1679.5	1618.5	1567.5
42.5°	2463.9	2318.1	2166.5	2039.1	1941.4	1862.2	1792.8	1726.2	1659.6	1607.3	1564.8
45°	2425.7	2285.5	2136.9	2015.1	1918.7	1835.2	1767.3	1712.0	1655.4	1611.5	1569.0
47.5°	2391.7	2274.2	2146.7	2030.6	1930.1	1843.7	1774.3	1727.5	1683.7	1654.0	1595.9
50°	2384.7	2268.5	2151.0	2043.4	1941.4	1853.6	1792.8	1768.7	1755.9	1737.5	1648.3
52.5°	2364.9	2267.1	2182.2	2122.7	2057.5	2016.5	1952.8	1975.4	1961.2	1896.1	1734.7
55°	2572.9	2601.3	2680.6	2793.9	2898.6	2922.7	2915.6	2888.8	2745.7	2362.0	1942.8
57.5°	3537.3	3697.3	3847.5	3914.0	3905.5	3830.4	3776.6	3667.6	3460.9	2993.5	2353.5
60°	4876.9	4902.4	4823.1	4705.5	4507.3	4341.6	4164.6	3960.7	3660.5	3203.1	2605.5
62.5°	6110.3	5767.6	5415.0	5083.7	4782.0	4518.6	4272.2	3987.7	3596.8	3119.6	2572.9
65°	6981.2	6256.1	5699.7	5223.8	4797.6	4429.4	4122.2	3752.6	3312.1	2881.7	2384.7
67.5°	7430.0	6318.5	5464.6	4801.9	4197.2	3687.4	3278.2	2918.5	2591.4	2403.1	2087.3
70°	6928.8	5362.6	4173.1	3424.0	2700.4	2165.1	1710.6	1435.9	1341.0	1519.5	1580.3
72.5°	5162.9	3490.5	2482.3	1920.2	1471.3	1172.5	899.2	706.6	574.9	603.3	783.1
75°	2441.3	1506.7	1064.8	810.0	644.3	533.9	436.2	399.4	334.2	277.6	260.6
77.5°	950.1	692.5	572.1	419.2	297.4	239.4	203.9	196.8	201.1	195.4	192.6
80°	723.6	490.0	307.3	225.1	194.0	171.3	151.5	145.9	148.7	155.7	162.9
82.5°	403.5	252.1	186.9	162.9	145.9	124.7	113.3	104.7	106.2	114.7	130.2
85°	155.7	121.8	111.9	107.6	100.6	80.7	69.4	70.8	80.7	96.3	96.3
87.5°	17.0	17.0	22.7	17.0	17.0	17.0	15.5	18.4	19.8	25.5	29.8
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8	2677.8
2.5°	2653.7	2653.7	2653.7	2650.9	2652.3	2646.6	2646.6	2642.3	2649.4	2645.2	2643.7
5°	2612.7	2611.2	2605.5	2605.5	2605.5	2605.5	2609.8	2598.4	2607.0	2607.0	2602.7
7.5°	2543.3	2543.3	2527.6	2536.2	2533.3	2537.6	2543.3	2537.6	2546.1	2551.7	2547.5
10°	2446.9	2446.9	2434.2	2444.1	2439.8	2449.8	2459.6	2454.1	2459.6	2468.2	2471.0
12.5°	2340.8	2335.1	2323.7	2328.0	2328.0	2333.7	2337.9	2344.9	2352.1	2363.4	2369.0
15°	2217.5	2209.0	2194.9	2194.9	2186.4	2189.2	2197.7	2200.6	2214.7	2230.2	2248.7
17.5°	2091.5	2070.2	2054.7	2036.3	2022.2	2033.5	2043.4	2050.4	2061.8	2085.9	2098.6
20°	1972.6	1930.1	1900.4	1876.3	1860.7	1867.7	1880.5	1889.0	1898.9	1904.6	1908.8
22.5°	1855.0	1806.9	1765.8	1736.1	1710.6	1717.7	1712.0	1707.7	1714.8	1696.5	1695.0
25°	1753.0	1696.5	1641.2	1605.8	1574.6	1564.8	1535.0	1527.9	1508.1	1492.6	1481.2
27.5°	1679.5	1605.8	1544.9	1503.8	1454.3	1417.5	1379.3	1341.0	1319.7	1294.2	1281.5
30°	1621.4	1543.5	1471.3	1401.9	1336.8	1280.1	1229.1	1179.5	1145.6	1108.8	1084.7
32.5°	1567.5	1495.4	1407.5	1312.7	1224.8	1161.1	1094.6	1038.0	984.2	936.0	900.7
35°	1530.8	1450.1	1338.1	1222.1	1122.9	1047.9	977.1	896.4	831.3	768.9	730.7
37.5°	1510.9	1411.8	1274.4	1145.6	1035.2	950.1	862.4	768.9	689.6	631.5	573.5
40°	1495.4	1373.6	1217.8	1077.6	961.5	859.5	757.6	647.2	559.4	498.4	453.1
42.5°	1478.3	1331.1	1168.3	1023.8	895.0	776.0	652.8	535.3	451.7	409.2	389.4
45°	1459.9	1294.2	1121.5	972.8	829.8	685.4	543.7	434.7	385.2	371.0	371.0
47.5°	1455.7	1270.2	1087.5	923.3	756.2	580.6	443.3	375.3	361.1	363.9	369.6
50°	1472.7	1263.1	1057.8	865.2	658.4	470.1	375.3	352.6	355.4	363.9	372.5
52.5°	1513.8	1268.8	1026.6	784.5	542.3	388.0	347.0	345.5	354.0	366.8	375.3
55°	1583.2	1268.8	967.2	664.1	433.3	348.4	337.0	342.7	354.0	365.3	372.5
57.5°	1731.8	1256.0	862.4	531.0	362.5	334.2	334.2	341.3	351.2	362.5	368.2
60°	1908.8	1239.1	715.1	410.7	327.1	322.9	332.7	341.3	349.8	359.7	365.3
62.5°	1920.2	1195.2	566.4	339.8	308.7	315.8	331.4	342.7	345.5	352.6	359.7
65°	1764.4	1042.2	450.3	304.5	300.2	311.5	327.1	335.6	337.0	339.8	347.0
67.5°	1544.9	849.7	363.9	287.4	291.7	304.5	312.9	320.0	324.3	331.4	332.7
70°	1268.8	682.5	311.5	270.4	274.7	288.8	296.0	303.1	311.5	320.0	315.8
72.5°	899.2	531.0	273.3	252.1	257.7	270.4	279.0	284.7	291.7	300.2	294.5
75°	382.3	371.0	236.5	228.0	236.5	244.9	253.5	262.0	269.0	273.3	273.3
77.5°	195.4	218.0	203.9	203.9	209.6	218.0	225.1	233.7	237.9	242.1	247.8
80°	165.7	168.5	171.3	177.0	182.7	191.2	198.2	205.3	206.7	208.2	211.0
82.5°	137.4	143.0	145.9	154.3	158.6	161.4	165.7	165.7	168.5	168.5	164.3
85°	99.2	106.2	110.4	111.9	110.4	111.9	113.3	116.1	123.2	123.2	117.5
87.5°	28.3	26.9	34.0	35.4	38.2	43.9	49.6	59.4	62.3	65.1	65.1
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):

	165°	170°	175°	180°
0°	2677.8	2677.8	2677.8	2677.8
2.5°	2642.3	2645.2	2639.6	2640.9
5°	2602.7	2608.4	2601.3	2609.8
7.5°	2551.7	2560.2	2558.8	2557.4
10°	2478.1	2489.4	2489.4	2493.7
12.5°	2384.7	2391.7	2397.4	2400.2
15°	2258.6	2271.4	2278.4	2278.4
17.5°	2107.1	2115.5	2119.8	2114.2
20°	1914.5	1911.6	1913.1	1898.9
22.5°	1692.2	1696.5	1683.7	1686.5
25°	1474.1	1467.1	1472.7	1464.2
27.5°	1263.1	1264.6	1248.9	1256.0
30°	1062.1	1055.0	1035.2	1045.0
32.5°	868.0	849.7	828.4	815.6
35°	685.4	657.0	647.2	642.9
37.5°	538.1	507.0	497.0	485.7
40°	427.6	416.3	412.1	414.9
42.5°	383.7	383.7	386.6	388.0
45°	372.5	376.7	380.9	382.3
47.5°	373.9	378.0	383.7	385.2
50°	376.7	380.9	385.2	386.6
52.5°	378.0	378.0	380.9	382.3
55°	375.3	373.9	375.3	376.7
57.5°	369.6	366.8	368.2	372.5
60°	366.8	362.5	365.3	368.2
62.5°	359.7	358.2	361.1	362.5
65°	344.1	345.5	349.8	349.8
67.5°	330.0	331.4	332.7	334.2
70°	312.9	314.3	317.2	318.6
72.5°	293.1	298.8	303.1	308.7
75°	277.6	283.3	291.7	297.4
77.5°	250.6	254.9	264.8	271.9
80°	212.4	211.0	212.4	216.7
82.5°	162.9	162.9	161.4	160.0
85°	114.7	113.3	109.0	109.0
87.5°	62.3	60.9	59.4	56.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)