

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: P180896

Luminaire Tested: **ICM-E05-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180896
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-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11596.6 lumens
Efficiency: N/A
Efficacy: 91.1 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

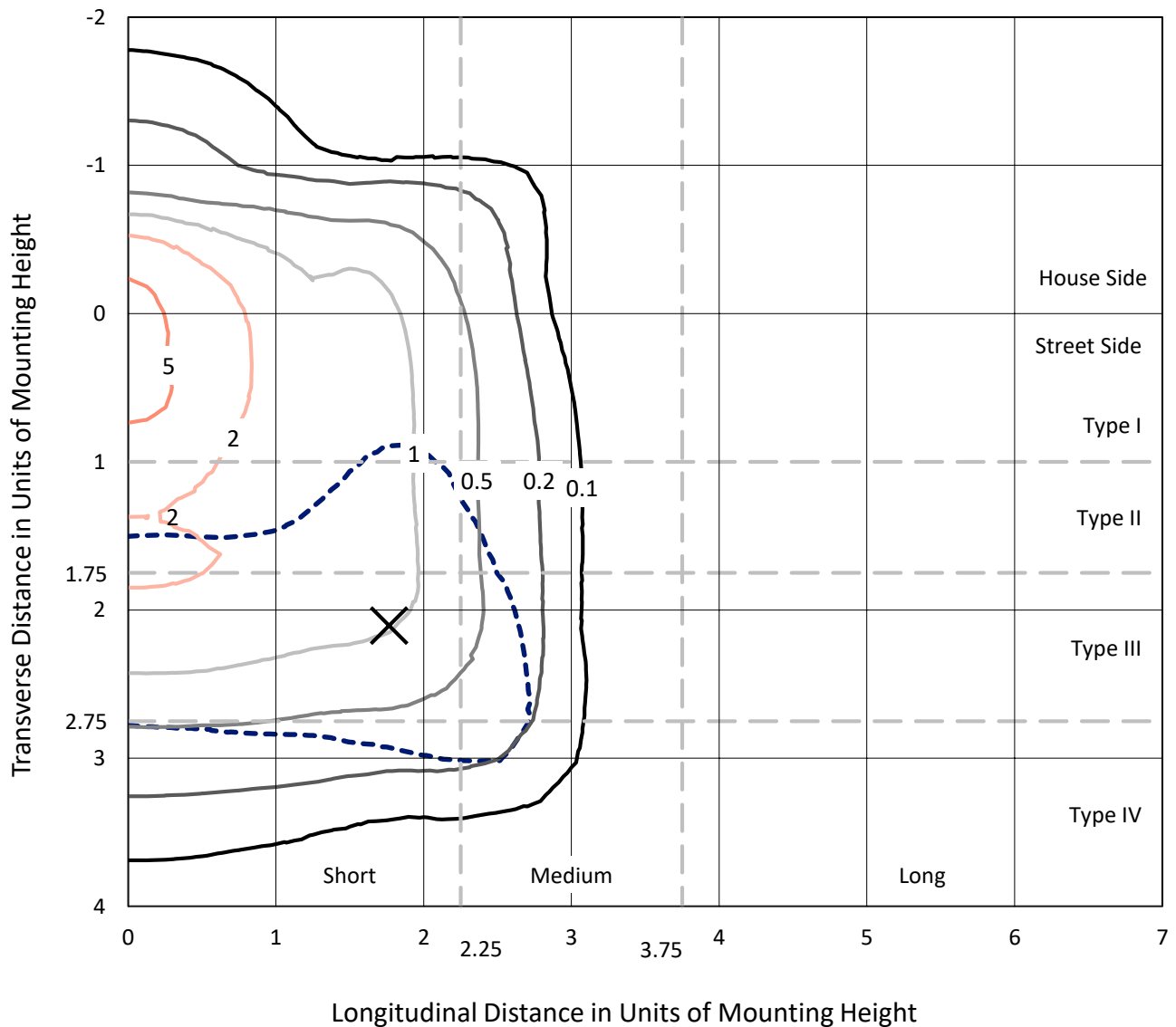
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

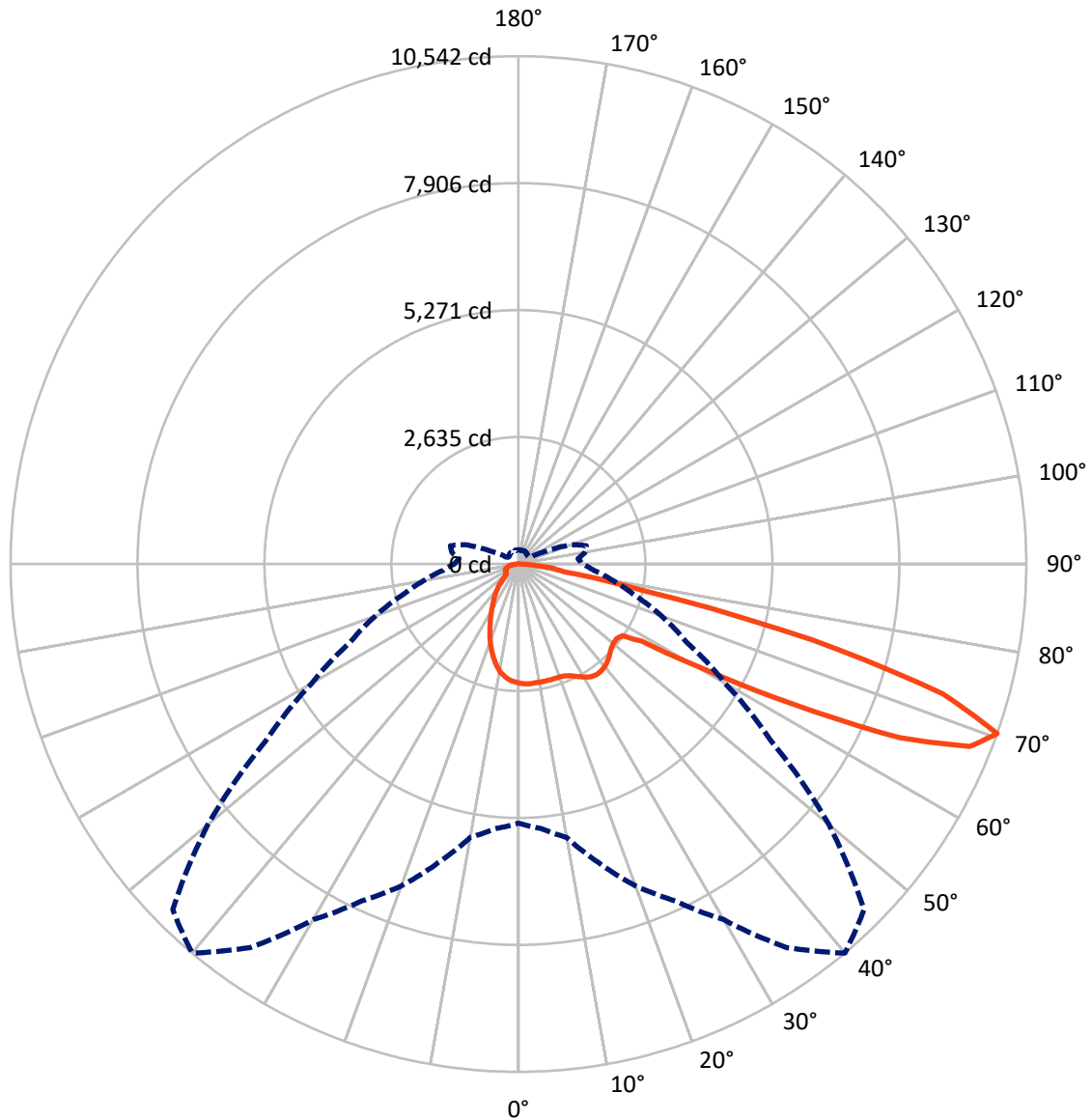
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.2 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	2407.3	0.0	2407.3
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9189.2	0.0	9189.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	11596.6	0.0	11596.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	2.0
10°-20°	632.8	5.5
20°-30°	936.8	8.1
30°-40°	1183.9	10.2
40°-50°	1338.9	11.5
50°-60°	1905.3	16.4
60°-70°	3548.4	30.6
70°-80°	1626.3	14.0
80°-90°	193.1	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°	11596.6	100.0
0°-180°	11596.6	100.0



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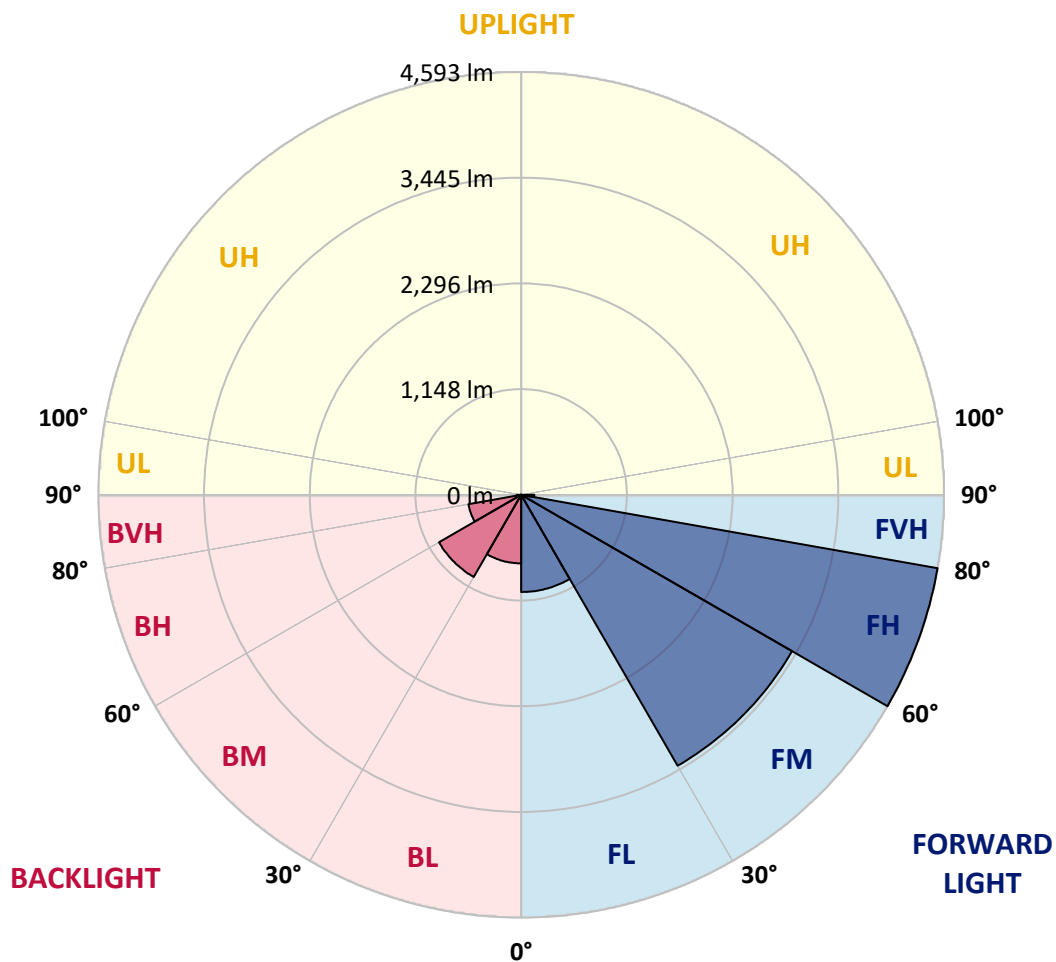
CATALOG NUMBER: ICM-E05-LED-E1-SL4-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1056.0	9.1			
FM	(30°-60°)	3397.4	29.3			
FH	(60°-80°)	4592.7	39.6			G2/5000
FVH	(80°-90°)	143.2	1.2			G2/225
BL	(0°-30°)	744.8	6.4	B2/1000		
BM	(30°-60°)	1030.7	8.9	B2/2500		
BH	(60°-80°)	582.0	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.8	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°	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4
2.5°	2512.4	2518.9	2511.1	2509.8	2509.8	2508.5	2500.6	2499.3	2488.9	2490.2	2492.8
5°	2530.7	2533.3	2528.1	2526.7	2524.1	2518.9	2512.4	2504.5	2496.7	2488.9	2482.2
7.5°	2549.0	2546.3	2542.4	2542.4	2538.5	2530.7	2517.6	2507.1	2490.2	2480.9	2469.2
10°	2575.2	2571.3	2566.0	2563.4	2556.9	2545.0	2526.7	2512.4	2491.5	2473.1	2453.5
12.5°	2600.0	2598.7	2590.9	2587.0	2576.5	2564.7	2542.4	2520.2	2492.8	2463.9	2437.8
15°	2644.5	2639.3	2631.5	2623.6	2606.5	2590.9	2556.9	2530.7	2491.5	2453.5	2412.9
17.5°	2721.7	2712.6	2704.7	2687.7	2666.8	2639.3	2589.6	2545.0	2491.5	2436.5	2390.7
20°	2863.1	2843.5	2832.9	2810.7	2774.1	2724.3	2647.2	2575.2	2495.4	2424.7	2363.2
22.5°	3022.7	3009.6	2995.2	2980.9	2923.3	2851.3	2746.6	2639.3	2518.9	2419.5	2340.9
25°	3202.0	3184.9	3177.0	3152.2	3098.6	3016.1	2873.5	2724.3	2572.6	2440.4	2340.9
27.5°	3361.6	3356.4	3355.1	3326.3	3275.2	3178.4	3009.6	2830.3	2645.8	2483.6	2360.6
30°	3506.8	3501.6	3499.0	3483.3	3424.4	3309.2	3126.1	2924.6	2725.7	2543.7	2397.2
32.5°	3661.2	3644.2	3636.4	3606.3	3539.6	3404.8	3195.4	2986.1	2788.5	2602.6	2437.8
35°	3786.8	3772.5	3756.8	3713.6	3619.4	3459.7	3225.5	3007.0	2813.3	2635.4	2458.7
37.5°	3878.4	3864.0	3841.8	3786.8	3670.4	3478.1	3224.2	3000.5	2804.2	2630.2	2462.6
40°	3919.0	3904.6	3881.0	3811.7	3679.6	3467.6	3199.4	2970.3	2776.7	2602.6	2446.9
42.5°	3903.3	3892.9	3862.7	3796.0	3650.8	3420.5	3149.6	2914.1	2724.3	2558.2	2411.6
45°	3843.1	3835.3	3806.4	3735.8	3585.3	3344.6	3076.3	2843.5	2661.5	2503.2	2364.5
47.5°	3752.9	3750.3	3721.4	3652.1	3502.9	3268.7	3000.5	2774.1	2598.7	2449.6	2325.2
50°	3653.4	3640.3	3625.9	3561.8	3425.7	3203.3	2945.5	2730.9	2563.4	2430.0	2308.2
52.5°	3590.6	3586.6	3573.6	3516.0	3385.1	3165.3	2920.6	2715.2	2560.8	2426.0	2299.1
55°	4148.0	4157.1	4036.8	3786.8	3567.0	3270.0	2995.2	2795.0	2624.9	2488.9	2395.9
57.5°	6135.7	6095.1	5888.3	5392.4	4832.4	4093.0	3560.5	3237.3	3026.6	3050.2	3097.2
60°	7148.4	7140.6	7102.6	6910.3	6537.3	5974.7	5350.5	4634.8	4407.1	4431.9	4450.3
62.5°	7601.2	7613.0	7641.7	7569.8	7471.7	7308.0	6996.7	6708.8	6403.9	6290.1	5985.2
65°	7810.6	7831.5	7896.9	7937.4	7975.4	8004.2	8127.2	8464.8	8687.3	8271.1	7302.8
67.5°	7377.4	7478.2	7694.1	7904.8	8093.2	8361.4	8777.5	9561.4	10107.0	9595.4	8191.3
70°	5378.0	5515.4	5762.7	6414.4	7110.5	7718.9	8525.0	9718.4	10541.5	10146.3	8411.2
72.5°	3372.0	3410.0	3519.9	3759.4	4276.2	5057.4	6466.7	8256.8	9206.8	8891.4	7109.2
75°	2139.5	2152.5	2148.6	2203.5	2291.2	2461.3	3018.7	4876.9	6307.1	5815.1	3962.2
77.5°	1274.5	1294.1	1302.0	1319.0	1360.8	1421.0	1466.9	1659.2	2644.5	2567.4	1438.1
80°	1067.7	1083.4	1070.3	1066.4	1040.3	1022.0	1044.2	1022.0	948.7	913.3	841.4
82.5°	565.3	564.0	560.0	598.0	675.2	735.4	781.2	770.7	697.4	594.1	503.8
85°	310.1	320.6	320.6	333.7	321.9	323.2	333.7	352.0	325.9	272.2	222.4
87.5°	26.1	40.6	32.7	40.6	55.0	39.3	38.0	38.0	32.7	23.5	20.9
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°	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4
2.5°	2486.2	2483.6	2478.3	2474.4	2474.4	2467.8	2463.9	2461.3	2460.0	2454.8	2454.8
5°	2478.3	2469.2	2460.0	2453.5	2449.6	2443.0	2432.6	2427.3	2420.8	2415.5	2412.9
7.5°	2461.3	2444.3	2430.0	2419.5	2406.3	2395.9	2382.8	2371.1	2359.3	2354.1	2351.5
10°	2435.2	2412.9	2390.7	2371.1	2352.8	2334.4	2317.4	2300.4	2286.0	2275.5	2265.0
12.5°	2410.3	2376.3	2347.5	2318.7	2289.9	2267.6	2244.1	2219.3	2198.3	2178.7	2173.4
15°	2376.3	2337.0	2300.4	2265.0	2229.7	2193.0	2164.3	2136.9	2102.8	2080.6	2063.5
17.5°	2344.9	2297.8	2253.3	2211.4	2168.2	2130.2	2087.1	2050.4	2016.5	1982.4	1957.6
20°	2310.8	2259.8	2212.7	2165.6	2118.5	2070.1	2020.4	1973.2	1931.4	1890.8	1850.2
22.5°	2280.8	2228.4	2182.6	2131.5	2079.3	2024.3	1966.7	1907.8	1859.5	1807.1	1759.9
25°	2262.4	2204.9	2157.8	2108.0	2050.4	1990.2	1924.8	1855.5	1796.6	1736.4	1680.1
27.5°	2262.4	2187.8	2139.5	2089.7	2030.8	1966.7	1894.7	1818.8	1752.1	1685.4	1616.0
30°	2282.1	2190.4	2125.0	2072.7	2012.5	1943.2	1863.4	1783.5	1710.2	1631.7	1565.0
32.5°	2300.4	2195.7	2114.5	2047.8	1978.5	1910.4	1829.3	1744.3	1663.2	1588.6	1517.9
35°	2312.2	2195.7	2094.9	2009.9	1931.4	1864.7	1784.8	1699.7	1617.3	1544.0	1478.6
37.5°	2313.5	2185.2	2063.5	1966.7	1884.3	1814.9	1739.0	1659.2	1580.7	1512.7	1457.7
40°	2300.4	2164.3	2032.1	1920.9	1834.5	1763.9	1694.5	1622.5	1551.9	1495.6	1448.6
42.5°	2276.9	2142.1	2002.1	1884.3	1794.0	1720.7	1656.6	1595.1	1533.6	1485.1	1445.9
45°	2241.5	2111.9	1974.5	1862.1	1773.0	1695.8	1633.0	1582.0	1529.7	1489.1	1449.9
47.5°	2210.1	2101.5	1983.7	1876.4	1783.5	1703.7	1639.5	1596.4	1555.8	1528.4	1474.7
50°	2203.5	2096.3	1987.6	1888.2	1794.0	1712.8	1656.6	1634.3	1622.5	1605.6	1523.1
52.5°	2185.2	2094.9	2016.5	1961.5	1901.3	1863.4	1804.5	1825.4	1812.3	1752.1	1602.9
55°	2377.6	2403.7	2477.0	2581.7	2678.5	2700.8	2694.2	2669.4	2537.2	2182.6	1795.3
57.5°	3268.7	3416.6	3555.3	3616.8	3608.9	3539.6	3489.8	3389.0	3198.1	2766.2	2174.8
60°	4506.5	4530.1	4456.9	4348.2	4165.0	4011.9	3848.4	3659.9	3382.5	2959.8	2407.6
62.5°	5646.3	5329.6	5003.8	4697.6	4418.9	4175.5	3947.8	3684.8	3323.6	2882.7	2377.6
65°	6451.0	5781.1	5266.8	4827.1	4433.2	4093.0	3809.1	3467.6	3060.7	2662.8	2203.5
67.5°	6865.8	5838.6	5049.6	4437.2	3878.4	3407.4	3029.2	2696.9	2394.6	2220.6	1928.8
70°	6402.6	4955.4	3856.2	3164.0	2495.4	2000.8	1580.7	1326.8	1239.2	1404.0	1460.3
72.5°	4770.9	3225.5	2293.9	1774.3	1359.5	1083.4	830.9	652.9	531.3	557.4	723.6
75°	2255.9	1392.3	984.0	748.5	595.4	493.3	403.0	369.0	308.8	256.5	240.7
77.5°	878.1	639.9	528.7	387.4	274.8	221.1	188.5	181.9	185.8	180.6	178.0
80°	668.7	452.7	283.9	208.1	179.3	158.3	140.0	134.8	137.4	143.9	150.5
82.5°	372.9	232.9	172.7	150.5	134.8	115.2	104.7	96.8	98.1	106.0	120.4
85°	143.9	112.6	103.3	99.4	92.9	74.6	64.1	65.4	74.6	89.0	89.0
87.5°	15.7	15.7	20.9	15.7	15.7	15.7	14.4	17.0	18.3	23.5	27.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4	2474.4
2.5°	2452.2	2452.2	2452.2	2449.6	2450.9	2445.6	2445.6	2441.7	2448.2	2444.3	2443.0
5°	2414.2	2412.9	2407.6	2407.6	2407.6	2407.6	2411.6	2401.1	2408.9	2408.9	2405.0
7.5°	2350.1	2350.1	2335.7	2343.5	2340.9	2344.9	2350.1	2344.9	2352.8	2358.0	2354.1
10°	2261.1	2261.1	2249.3	2258.5	2254.6	2263.7	2272.9	2267.6	2272.9	2280.8	2283.4
12.5°	2163.0	2157.8	2147.3	2151.2	2151.2	2156.5	2160.4	2166.9	2173.4	2183.9	2189.1
15°	2049.1	2041.3	2028.2	2028.2	2020.4	2023.0	2030.8	2033.4	2046.5	2060.9	2078.0
17.5°	1932.7	1913.0	1898.7	1881.7	1868.6	1879.1	1888.2	1894.7	1905.2	1927.5	1939.3
20°	1822.8	1783.5	1756.0	1733.8	1719.4	1726.0	1737.7	1745.6	1754.7	1759.9	1763.9
22.5°	1714.2	1669.7	1631.7	1604.3	1580.7	1587.3	1582.0	1578.1	1584.7	1567.6	1566.3
25°	1619.9	1567.6	1516.6	1483.8	1455.1	1445.9	1418.4	1411.9	1393.6	1379.2	1368.8
27.5°	1551.9	1483.8	1427.6	1389.7	1343.8	1309.9	1274.5	1239.2	1219.5	1196.0	1184.2
30°	1498.2	1426.3	1359.5	1295.4	1235.3	1182.9	1135.8	1090.0	1058.6	1024.6	1002.3
32.5°	1448.6	1381.8	1300.7	1213.0	1131.9	1073.0	1011.4	959.2	909.4	864.9	832.2
35°	1414.5	1339.9	1236.6	1129.2	1037.7	968.3	902.9	828.3	768.1	710.5	675.2
37.5°	1396.2	1304.6	1177.7	1058.6	956.6	878.1	796.9	710.5	637.2	583.6	530.0
40°	1381.8	1269.3	1125.3	995.8	888.5	794.2	700.1	598.0	516.8	460.6	418.7
42.5°	1366.1	1230.1	1079.5	946.1	827.0	717.0	603.3	494.6	417.4	378.1	359.8
45°	1349.1	1196.0	1036.4	899.0	766.8	633.3	502.5	401.7	355.9	342.8	342.8
47.5°	1345.1	1173.8	1004.9	853.1	698.8	536.5	409.6	346.8	333.7	336.3	341.5
50°	1360.8	1167.2	977.5	799.5	608.5	434.4	346.8	325.9	328.5	336.3	344.1
52.5°	1398.8	1172.5	948.7	724.9	501.1	358.5	320.6	319.3	327.2	338.9	346.8
55°	1462.9	1172.5	893.7	613.7	400.4	321.9	311.4	316.7	327.2	337.6	344.1
57.5°	1600.3	1160.7	796.9	490.7	335.0	308.8	308.8	315.4	324.5	335.0	340.2
60°	1763.9	1144.9	660.8	379.4	302.2	298.3	307.5	315.4	323.2	332.4	337.6
62.5°	1774.3	1104.4	523.4	314.0	285.3	291.8	306.2	316.7	319.3	325.9	332.4
65°	1630.4	963.1	416.1	281.3	277.4	287.9	302.2	310.1	311.4	314.0	320.6
67.5°	1427.6	785.1	336.3	265.7	269.6	281.3	289.2	295.7	299.6	306.2	307.5
70°	1172.5	630.7	287.9	250.0	253.9	267.0	273.5	280.0	287.9	295.7	291.8
72.5°	830.9	490.7	252.6	232.9	238.1	250.0	257.8	263.0	269.6	277.4	272.2
75°	353.3	342.8	218.5	210.7	218.5	226.4	234.2	242.0	248.7	252.6	252.6
77.5°	180.6	201.5	188.5	188.5	193.7	201.5	208.1	215.9	219.8	223.7	229.0
80°	153.1	155.7	158.3	163.5	168.8	176.7	183.2	189.8	191.1	192.4	195.0
82.5°	126.9	132.2	134.8	142.6	146.5	149.2	153.1	153.1	155.7	155.7	151.8
85°	91.6	98.1	102.0	103.3	102.0	103.3	104.7	107.3	113.9	113.9	108.7
87.5°	26.1	24.8	31.4	32.7	35.3	40.6	45.8	55.0	57.6	60.2	60.2
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):

	165°	170°	175°	180°
0°	2474.4	2474.4	2474.4	2474.4
2.5°	2441.7	2444.3	2439.1	2440.4
5°	2405.0	2410.3	2403.7	2411.6
7.5°	2358.0	2365.8	2364.5	2363.2
10°	2289.9	2300.4	2300.4	2304.3
12.5°	2203.5	2210.1	2215.4	2218.0
15°	2087.1	2098.9	2105.4	2105.4
17.5°	1947.1	1954.9	1958.9	1953.6
20°	1769.1	1766.5	1767.8	1754.7
22.5°	1563.6	1567.6	1555.8	1558.4
25°	1362.1	1355.6	1360.8	1353.0
27.5°	1167.2	1168.5	1154.1	1160.7
30°	981.4	974.9	956.6	965.7
32.5°	802.1	785.1	765.5	753.7
35°	633.3	607.2	598.0	594.1
37.5°	497.2	468.5	459.3	448.8
40°	395.2	384.7	380.7	383.4
42.5°	354.6	354.6	357.2	358.5
45°	344.1	348.1	352.0	353.3
47.5°	345.5	349.4	354.6	355.9
50°	348.1	352.0	355.9	357.2
52.5°	349.4	349.4	352.0	353.3
55°	346.8	345.5	346.8	348.1
57.5°	341.5	338.9	340.2	344.1
60°	338.9	335.0	337.6	340.2
62.5°	332.4	331.1	333.7	335.0
65°	318.0	319.3	323.2	323.2
67.5°	304.8	306.2	307.5	308.8
70°	289.2	290.5	293.1	294.4
72.5°	270.9	276.1	280.0	285.3
75°	256.5	261.7	269.6	274.8
77.5°	231.6	235.5	244.7	251.3
80°	196.3	195.0	196.3	200.2
82.5°	150.5	150.5	149.2	147.9
85°	106.0	104.7	100.7	100.7
87.5°	57.6	56.3	55.0	52.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)