

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: P180903

Luminaire Tested: **ICM-F05-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180903
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-F05-LED-E1-SL4
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11342.8 lumens
Efficiency: N/A
Efficacy: 85.1 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

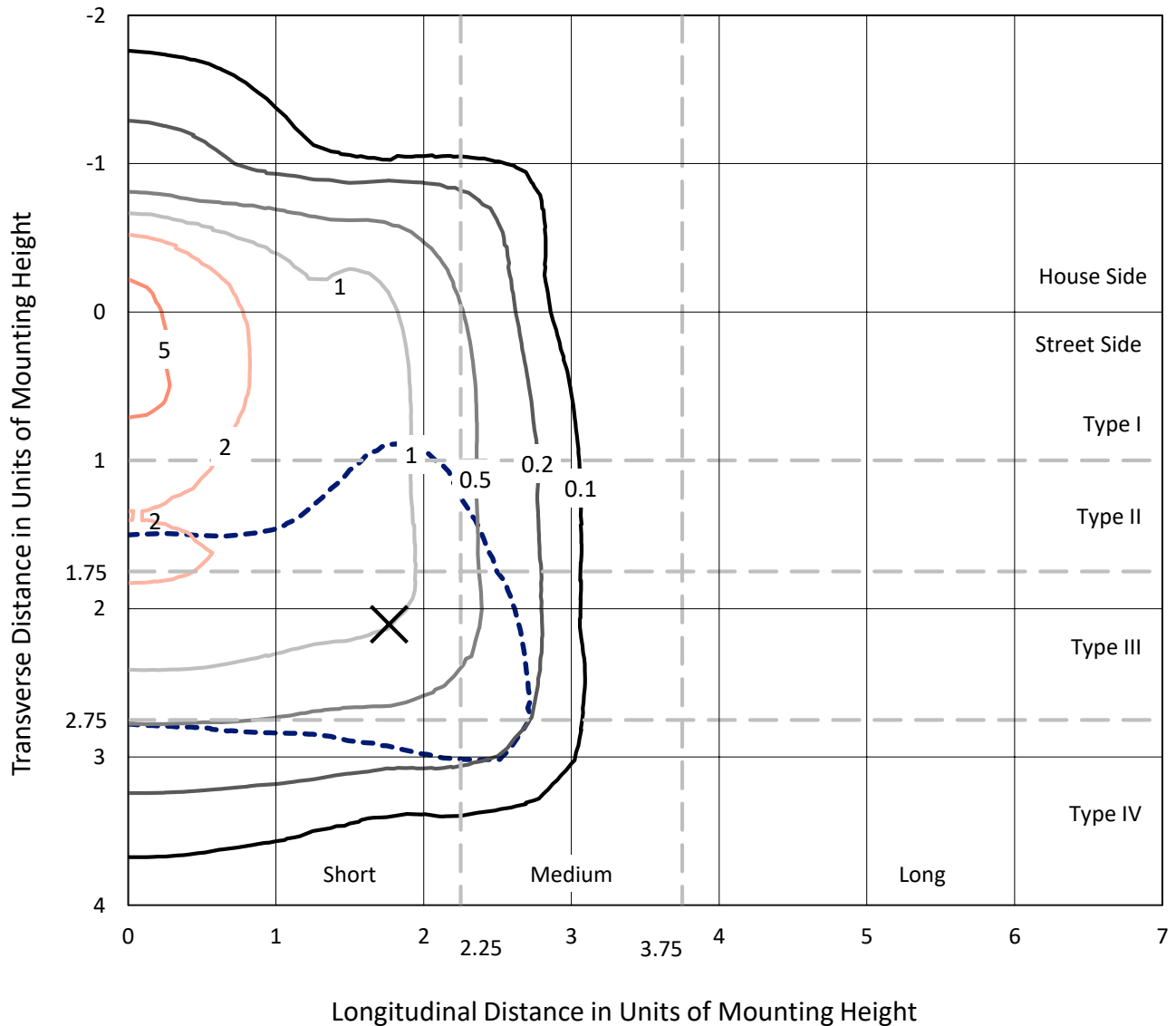
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

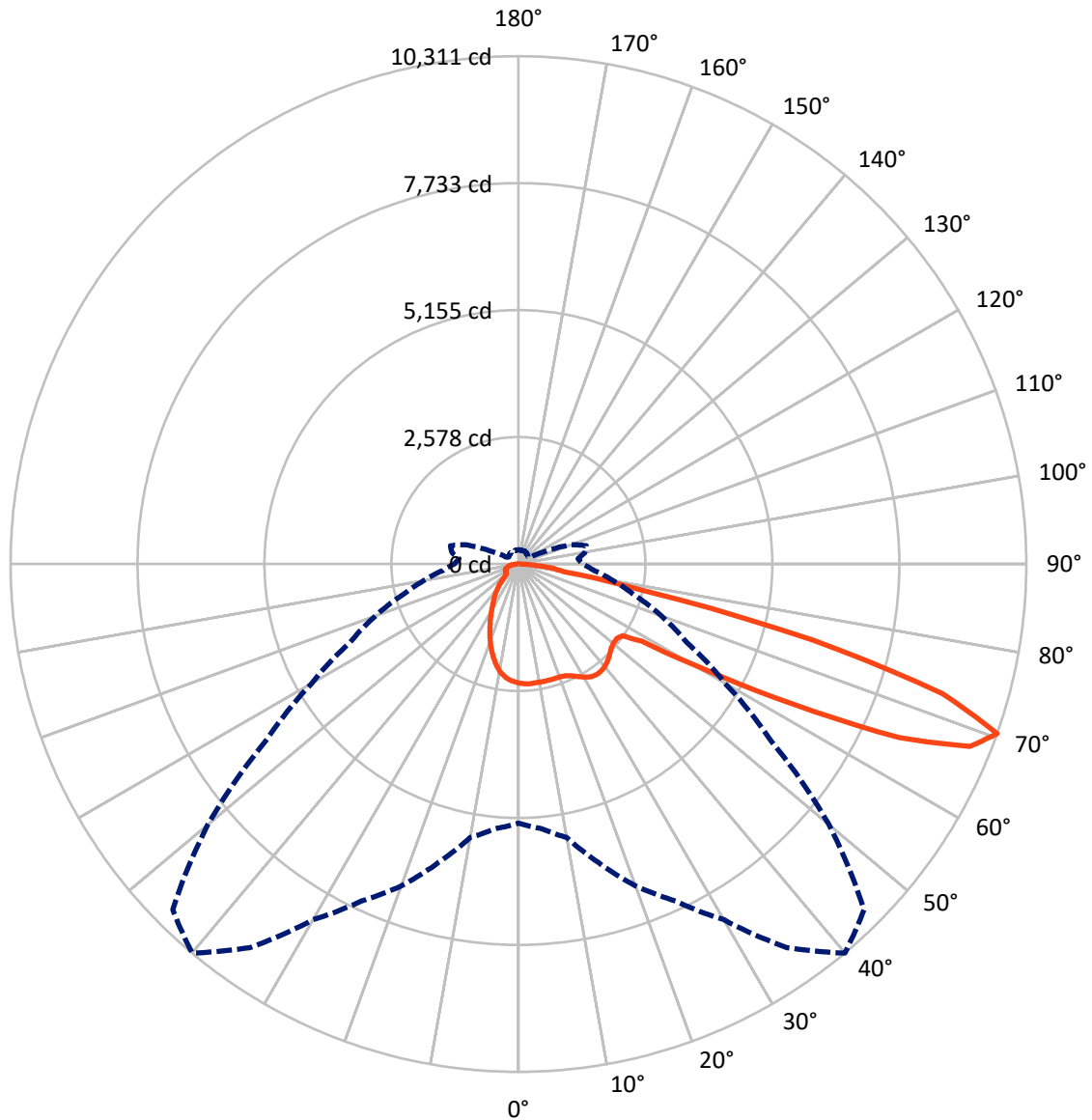
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.1 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	2354.7	0.0	2354.7
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	8988.2	0.0	8988.2
	% Fixture	79.2	0.0	79.2
Total	Lumens	11342.8	0.0	11342.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.1	2.0
10°-20°	619.0	5.5
20°-30°	916.3	8.1
30°-40°	1158.0	10.2
40°-50°	1309.6	11.5
50°-60°	1863.6	16.4
60°-70°	3470.8	30.6
70°-80°	1590.7	14.0
80°-90°	188.8	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°	11342.8	100.0
0°-180°	11342.8	100.0



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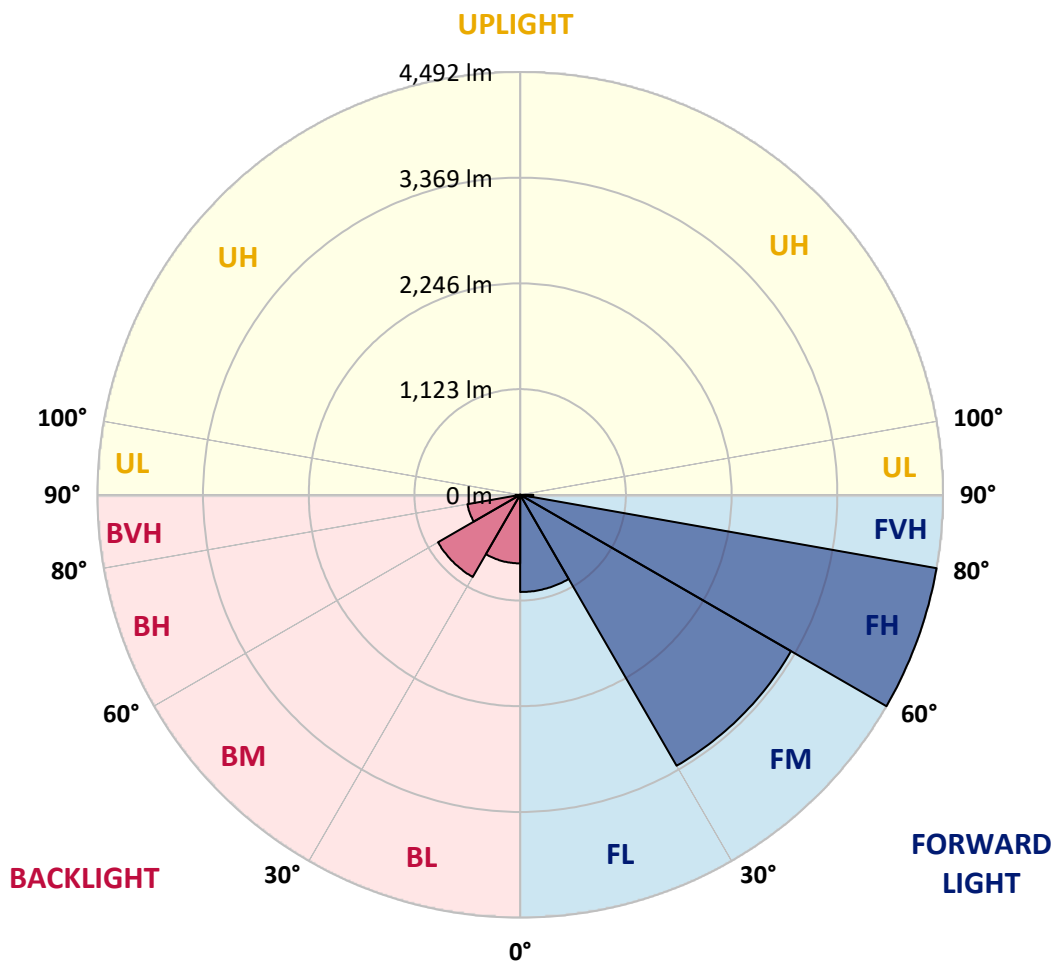
CATALOG NUMBER: ICM-F05-LED-E1-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1032.8	9.1			
FM	(30°-60°)	3323.1	29.3			
FH	(60°-80°)	4492.2	39.6			G2/5000
FVH	(80°-90°)	140.1	1.2			G2/225
BL	(0°-30°)	728.5	6.4	B2/1000		
BM	(30°-60°)	1008.1	8.9	B2/2500		
BH	(60°-80°)	569.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2457.4	2463.8	2456.1	2454.8	2454.8	2453.6	2445.9	2444.6	2434.3	2435.6	2438.2
5°	2475.3	2477.9	2472.8	2471.5	2468.9	2463.8	2457.4	2449.7	2442.1	2434.3	2427.9
7.5°	2493.2	2490.7	2486.8	2486.8	2483.0	2475.3	2462.5	2452.3	2435.6	2426.7	2415.2
10°	2518.8	2515.0	2509.9	2507.3	2500.9	2489.4	2471.5	2457.4	2436.9	2419.0	2399.8
12.5°	2543.2	2541.9	2534.2	2530.3	2520.1	2508.6	2486.8	2465.0	2438.2	2410.1	2384.5
15°	2586.6	2581.5	2573.9	2566.2	2549.5	2534.2	2500.9	2475.3	2436.9	2399.8	2360.1
17.5°	2662.2	2653.2	2645.5	2628.9	2608.4	2581.5	2532.9	2489.4	2436.9	2383.2	2338.3
20°	2800.4	2781.2	2771.0	2749.2	2713.4	2664.8	2589.2	2518.8	2440.8	2371.6	2311.5
22.5°	2956.6	2943.7	2929.7	2915.6	2859.3	2788.9	2686.5	2581.5	2463.8	2366.5	2289.7
25°	3131.9	3115.3	3107.6	3083.3	3030.8	2950.2	2810.6	2664.8	2516.3	2387.0	2289.7
27.5°	3288.0	3282.9	3281.6	3253.5	3203.6	3108.9	2943.7	2768.4	2587.9	2429.2	2308.9
30°	3430.1	3425.0	3422.4	3407.1	3349.5	3236.9	3057.7	2860.6	2666.0	2488.1	2344.8
32.5°	3581.1	3564.5	3556.9	3527.4	3462.1	3330.3	3125.5	2920.7	2727.5	2545.7	2384.5
35°	3704.0	3689.9	3674.5	3632.3	3540.2	3384.0	3154.9	2941.2	2751.7	2577.7	2404.9
37.5°	3793.6	3779.6	3757.8	3704.0	3590.1	3402.0	3153.7	2934.8	2742.8	2572.6	2408.8
40°	3833.2	3819.2	3796.1	3728.3	3599.1	3391.7	3129.3	2905.3	2715.9	2545.7	2393.4
42.5°	3817.9	3807.7	3778.3	3713.0	3570.9	3345.6	3080.7	2850.3	2664.8	2502.2	2358.8
45°	3759.0	3751.4	3723.2	3654.1	3506.9	3271.4	3009.0	2781.2	2603.3	2448.4	2312.8
47.5°	3670.7	3668.2	3640.0	3572.2	3426.3	3197.1	2934.8	2713.4	2541.9	2395.9	2274.3
50°	3573.4	3560.7	3546.5	3483.8	3350.7	3133.1	2881.0	2671.2	2507.3	2376.8	2257.7
52.5°	3512.0	3508.2	3495.4	3439.1	3311.1	3096.0	2856.8	2655.7	2504.8	2372.9	2248.8
55°	4057.2	4066.3	3948.5	3704.0	3489.0	3198.4	2929.7	2733.9	2567.5	2434.3	2343.5
57.5°	6001.4	5961.7	5759.5	5274.5	4726.6	4003.5	3482.6	3166.4	2960.4	2983.5	3029.5
60°	6992.0	6984.3	6947.2	6759.1	6394.4	5843.9	5233.5	4533.3	4310.6	4335.0	4353.0
62.5°	7434.9	7446.4	7474.6	7404.1	7308.1	7148.2	6843.6	6562.0	6263.8	6152.4	5854.3
65°	7639.7	7660.1	7724.1	7763.9	7801.0	7829.1	7949.4	8279.6	8497.2	8090.2	7143.1
67.5°	7216.0	7314.6	7525.7	7731.9	7916.1	8178.5	8585.5	9352.2	9885.9	9385.5	8012.1
70°	5260.3	5394.7	5636.7	6274.0	6954.9	7550.1	8338.5	9505.7	10310.8	9924.2	8227.1
72.5°	3298.3	3335.4	3442.9	3677.1	4182.7	4946.8	6325.2	8076.1	9005.4	8696.9	6953.6
75°	2092.7	2105.4	2101.6	2155.4	2241.1	2407.5	2952.7	4770.2	6169.1	5687.8	3875.5
77.5°	1246.6	1265.8	1273.5	1290.1	1331.1	1390.0	1434.8	1622.9	2586.6	2511.2	1406.6
80°	1044.4	1059.7	1047.0	1043.1	1017.5	999.6	1021.3	999.6	927.9	893.4	823.0
82.5°	552.9	551.6	547.8	584.9	660.5	719.3	764.1	753.9	682.1	581.0	492.7
85°	303.4	313.6	313.6	326.3	314.9	316.1	326.3	344.3	318.7	266.2	217.6
87.5°	25.6	39.7	32.0	39.7	53.8	38.4	37.1	37.1	32.0	23.1	20.5
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°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2431.8	2429.2	2424.1	2420.3	2420.3	2413.9	2410.1	2407.5	2406.2	2401.0	2401.0
5°	2424.1	2415.2	2406.2	2399.8	2395.9	2389.6	2379.4	2374.2	2367.8	2362.7	2360.1
7.5°	2407.5	2390.8	2376.8	2366.5	2353.7	2343.5	2330.7	2319.2	2307.6	2302.5	2299.9
10°	2381.9	2360.1	2338.3	2319.2	2301.2	2283.4	2266.7	2250.1	2236.0	2225.7	2215.5
12.5°	2357.6	2324.3	2296.1	2268.0	2239.8	2218.1	2195.0	2170.7	2150.2	2131.0	2125.9
15°	2324.3	2285.9	2250.1	2215.5	2180.9	2145.1	2116.9	2090.1	2056.8	2035.0	2018.4
17.5°	2293.6	2247.5	2204.0	2163.0	2120.8	2083.6	2041.4	2005.6	1972.3	1939.1	1914.7
20°	2260.3	2210.3	2164.3	2118.2	2072.1	2024.8	1976.2	1930.1	1889.1	1849.4	1809.8
22.5°	2230.8	2179.6	2134.9	2084.9	2033.8	1980.0	1923.6	1866.1	1818.7	1767.5	1721.5
25°	2212.9	2156.6	2110.5	2061.9	2005.6	1946.7	1882.7	1814.9	1757.3	1698.4	1643.4
27.5°	2212.9	2140.0	2092.7	2044.0	1986.4	1923.6	1853.3	1779.1	1713.8	1648.5	1580.7
30°	2232.1	2142.5	2078.5	2027.4	1968.5	1900.7	1822.5	1744.5	1672.8	1596.0	1530.7
32.5°	2250.1	2147.6	2068.3	2003.0	1935.2	1868.7	1789.3	1706.1	1626.7	1553.8	1484.7
35°	2261.6	2147.6	2049.1	1965.9	1889.1	1823.8	1745.8	1662.6	1582.0	1510.2	1446.2
37.5°	2262.8	2137.4	2018.4	1923.6	1843.1	1775.2	1700.9	1622.9	1546.1	1479.5	1425.8
40°	2250.1	2116.9	1987.6	1878.9	1794.4	1725.3	1657.5	1587.1	1518.0	1462.9	1416.8
42.5°	2227.0	2095.2	1958.2	1843.1	1754.7	1683.1	1620.4	1560.2	1500.0	1452.7	1414.2
45°	2192.5	2065.8	1931.4	1821.3	1734.2	1658.7	1597.3	1547.4	1496.2	1456.5	1418.1
47.5°	2161.8	2055.5	1940.3	1835.4	1744.5	1666.4	1603.7	1561.5	1521.8	1494.9	1442.4
50°	2155.4	2050.4	1944.2	1846.9	1754.7	1675.4	1620.4	1598.6	1587.1	1570.4	1489.8
52.5°	2137.4	2049.1	1972.3	1918.5	1859.6	1822.5	1764.9	1785.4	1772.7	1713.8	1567.8
55°	2325.6	2351.2	2422.8	2525.2	2619.9	2641.7	2635.3	2611.0	2481.7	2134.9	1756.0
57.5°	3197.1	3341.8	3477.5	3537.6	3530.0	3462.1	3413.5	3314.9	3128.0	2705.7	2127.2
60°	4407.9	4431.0	4359.3	4253.0	4073.9	3924.1	3764.1	3579.8	3308.5	2895.1	2355.0
62.5°	5522.7	5213.0	4894.3	4594.8	4322.2	4084.1	3861.4	3604.2	3250.9	2819.6	2325.6
65°	6309.9	5654.5	5151.6	4721.5	4336.3	4003.5	3725.8	3391.7	2993.7	2604.6	2155.4
67.5°	6715.6	5710.9	4939.1	4340.1	3793.6	3332.9	2963.0	2637.9	2342.2	2172.0	1886.5
70°	6262.5	4846.9	3771.8	3094.8	2440.8	1956.9	1546.1	1297.8	1212.1	1373.3	1428.4
72.5°	4666.4	3154.9	2243.6	1735.5	1329.8	1059.7	812.7	638.7	519.6	545.2	707.8
75°	2206.5	1361.8	962.5	732.1	582.3	482.5	394.2	360.9	302.0	250.9	235.5
77.5°	858.8	625.9	517.1	378.9	268.7	216.3	184.3	177.9	181.8	176.7	174.0
80°	654.1	442.9	277.8	203.5	175.3	154.9	136.9	131.8	134.4	140.7	147.2
82.5°	364.7	227.8	168.9	147.2	131.8	112.7	102.4	94.7	96.0	103.6	117.8
85°	140.7	110.0	101.1	97.3	90.9	72.9	62.7	64.0	72.9	87.1	87.1
87.5°	15.3	15.3	20.5	15.3	15.3	15.3	14.0	16.7	18.0	23.1	26.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3	2420.3
2.5°	2398.5	2398.5	2398.5	2395.9	2397.2	2392.1	2392.1	2388.3	2394.7	2390.8	2389.6
5°	2361.4	2360.1	2355.0	2355.0	2355.0	2355.0	2358.8	2348.6	2356.3	2356.3	2352.5
7.5°	2298.7	2298.7	2284.6	2292.3	2289.7	2293.6	2298.7	2293.6	2301.2	2306.3	2302.5
10°	2211.6	2211.6	2200.1	2209.1	2205.2	2214.2	2223.2	2218.1	2223.2	2230.8	2233.4
12.5°	2115.6	2110.5	2100.3	2104.1	2104.1	2109.2	2113.1	2119.5	2125.9	2136.1	2141.2
15°	2004.3	1996.7	1983.8	1983.8	1976.2	1978.7	1986.4	1988.9	2001.8	2015.8	2032.5
17.5°	1890.4	1871.2	1857.1	1840.5	1827.6	1838.0	1846.9	1853.3	1863.5	1885.3	1896.8
20°	1782.9	1744.5	1717.6	1695.8	1681.8	1688.2	1699.7	1707.4	1716.3	1721.5	1725.3
22.5°	1676.7	1633.1	1596.0	1569.1	1546.1	1552.5	1547.4	1543.5	1550.0	1533.3	1532.0
25°	1584.5	1533.3	1483.4	1451.4	1423.3	1414.2	1387.4	1381.0	1363.1	1349.0	1338.8
27.5°	1518.0	1451.4	1396.4	1359.3	1314.4	1281.2	1246.6	1212.1	1192.8	1169.8	1158.3
30°	1465.5	1395.1	1329.8	1267.1	1208.2	1157.0	1111.0	1066.1	1035.4	1002.1	980.4
32.5°	1416.8	1351.5	1272.2	1186.4	1107.1	1049.5	989.4	938.1	889.5	846.1	814.1
35°	1383.5	1310.6	1209.5	1104.6	1015.0	947.1	883.2	810.1	751.3	695.0	660.5
37.5°	1365.7	1276.0	1151.9	1035.4	935.6	858.8	779.4	695.0	623.4	570.8	518.3
40°	1351.5	1241.5	1100.8	974.0	869.0	776.9	684.7	584.9	505.6	450.5	409.6
42.5°	1336.2	1203.1	1055.9	925.4	808.9	701.4	590.1	483.8	408.3	369.9	352.0
45°	1319.5	1169.8	1013.7	879.3	750.1	619.4	491.4	392.9	348.1	335.4	335.4
47.5°	1315.7	1148.1	983.0	834.5	683.4	524.7	400.6	339.2	326.3	328.9	334.0
50°	1331.1	1141.7	956.1	782.1	595.2	424.9	339.2	318.7	321.2	328.9	336.7
52.5°	1368.2	1146.8	927.9	709.0	490.2	350.7	313.6	312.3	320.0	331.5	339.2
55°	1430.9	1146.8	874.1	600.3	391.6	314.9	304.7	309.8	320.0	330.2	336.7
57.5°	1565.3	1135.3	779.4	480.0	327.6	302.0	302.0	308.5	317.4	327.6	332.7
60°	1725.3	1119.9	646.3	371.2	295.6	291.8	300.7	308.5	316.1	325.1	330.2
62.5°	1735.5	1080.2	511.9	307.2	279.0	285.4	299.5	309.8	312.3	318.7	325.1
65°	1594.7	942.0	407.0	275.2	271.4	281.6	295.6	303.4	304.7	307.2	313.6
67.5°	1396.4	767.9	328.9	259.8	263.6	275.2	282.9	289.2	293.1	299.5	300.7
70°	1146.8	616.9	281.6	244.5	248.3	261.1	267.5	273.9	281.6	289.2	285.4
72.5°	812.7	480.0	247.0	227.8	232.9	244.5	252.1	257.3	263.6	271.4	266.2
75°	345.6	335.4	213.8	206.0	213.8	221.4	229.1	236.7	243.2	247.0	247.0
77.5°	176.7	197.1	184.3	184.3	189.4	197.1	203.5	211.2	215.0	218.9	224.0
80°	149.8	152.3	154.9	160.0	165.1	172.7	179.2	185.6	186.9	188.2	190.7
82.5°	124.2	129.3	131.8	139.5	143.3	145.9	149.8	149.8	152.3	152.3	148.5
85°	89.6	96.0	99.8	101.1	99.8	101.1	102.4	104.9	111.3	111.3	106.2
87.5°	25.6	24.3	30.7	32.0	34.5	39.7	44.8	53.8	56.3	58.9	58.9
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):

	165°	170°	175°	180°
0°	2420.3	2420.3	2420.3	2420.3
2.5°	2388.3	2390.8	2385.7	2387.0
5°	2352.5	2357.6	2351.2	2358.8
7.5°	2306.3	2314.1	2312.8	2311.5
10°	2239.8	2250.1	2250.1	2253.9
12.5°	2155.4	2161.8	2166.9	2169.4
15°	2041.4	2052.9	2059.4	2059.4
17.5°	1904.5	1912.2	1916.0	1910.9
20°	1730.4	1727.8	1729.1	1716.3
22.5°	1529.5	1533.3	1521.8	1524.4
25°	1332.4	1326.0	1331.1	1323.4
27.5°	1141.7	1143.0	1128.8	1135.3
30°	959.9	953.5	935.6	944.6
32.5°	784.6	767.9	748.7	737.2
35°	619.4	593.9	584.9	581.0
37.5°	486.3	458.2	449.2	439.0
40°	386.5	376.3	372.5	375.0
42.5°	346.9	346.9	349.4	350.7
45°	336.7	340.5	344.3	345.6
47.5°	337.9	341.8	346.9	348.1
50°	340.5	344.3	348.1	349.4
52.5°	341.8	341.8	344.3	345.6
55°	339.2	337.9	339.2	340.5
57.5°	334.0	331.5	332.7	336.7
60°	331.5	327.6	330.2	332.7
62.5°	325.1	323.8	326.3	327.6
65°	311.0	312.3	316.1	316.1
67.5°	298.2	299.5	300.7	302.0
70°	282.9	284.1	286.7	288.0
72.5°	264.9	270.0	273.9	279.0
75°	250.9	256.0	263.6	268.7
77.5°	226.5	230.4	239.4	245.8
80°	192.0	190.7	192.0	195.8
82.5°	147.2	147.2	145.9	144.7
85°	103.6	102.4	98.5	98.5
87.5°	56.3	55.1	53.8	51.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)