

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: P180911

Luminaire Tested: **ICM-F06-LED-E1-SL4-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180911
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-F06-LED-E1-SL4-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11487.9 lumens
Efficiency: N/A
Efficacy: 73.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

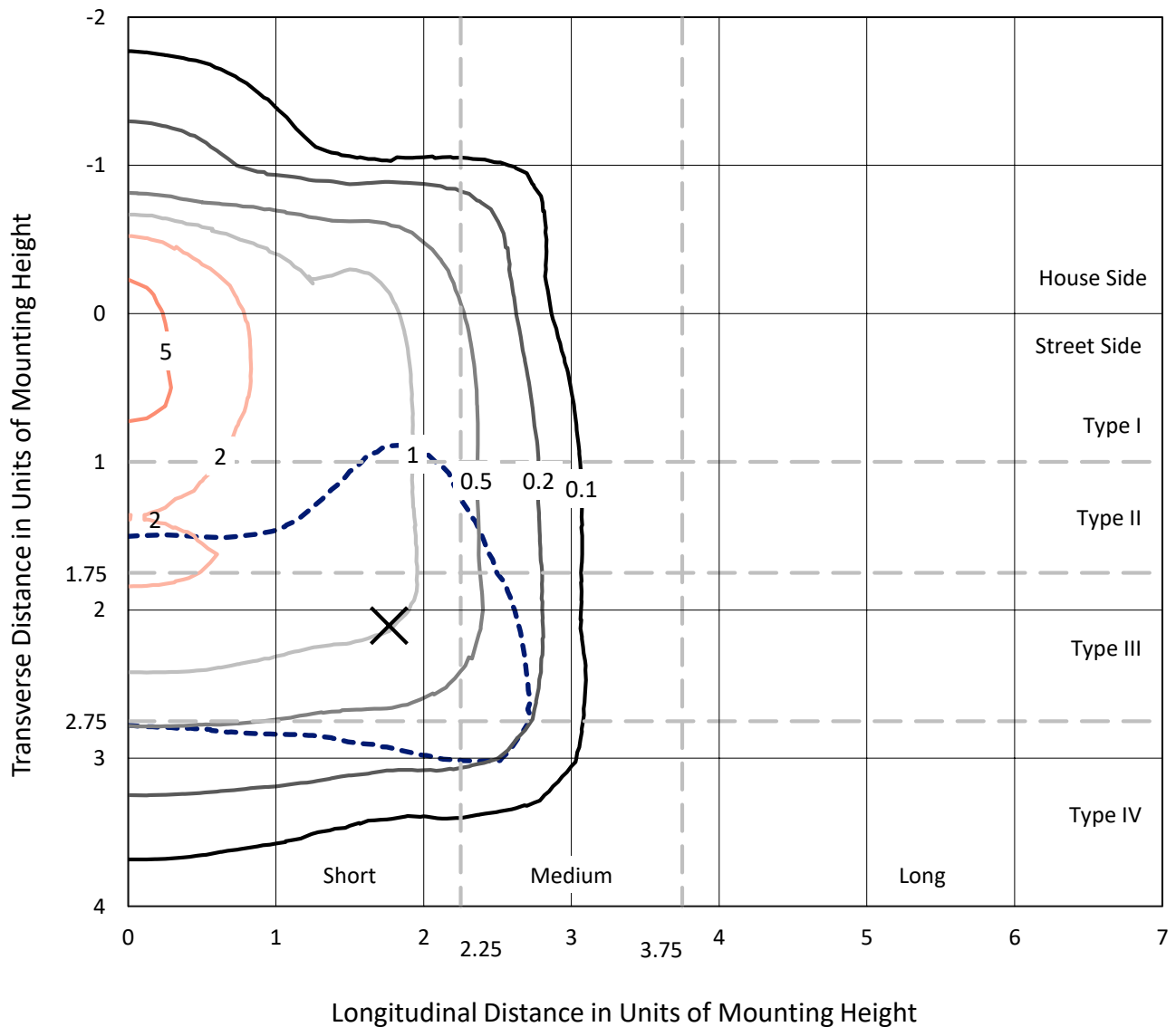
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

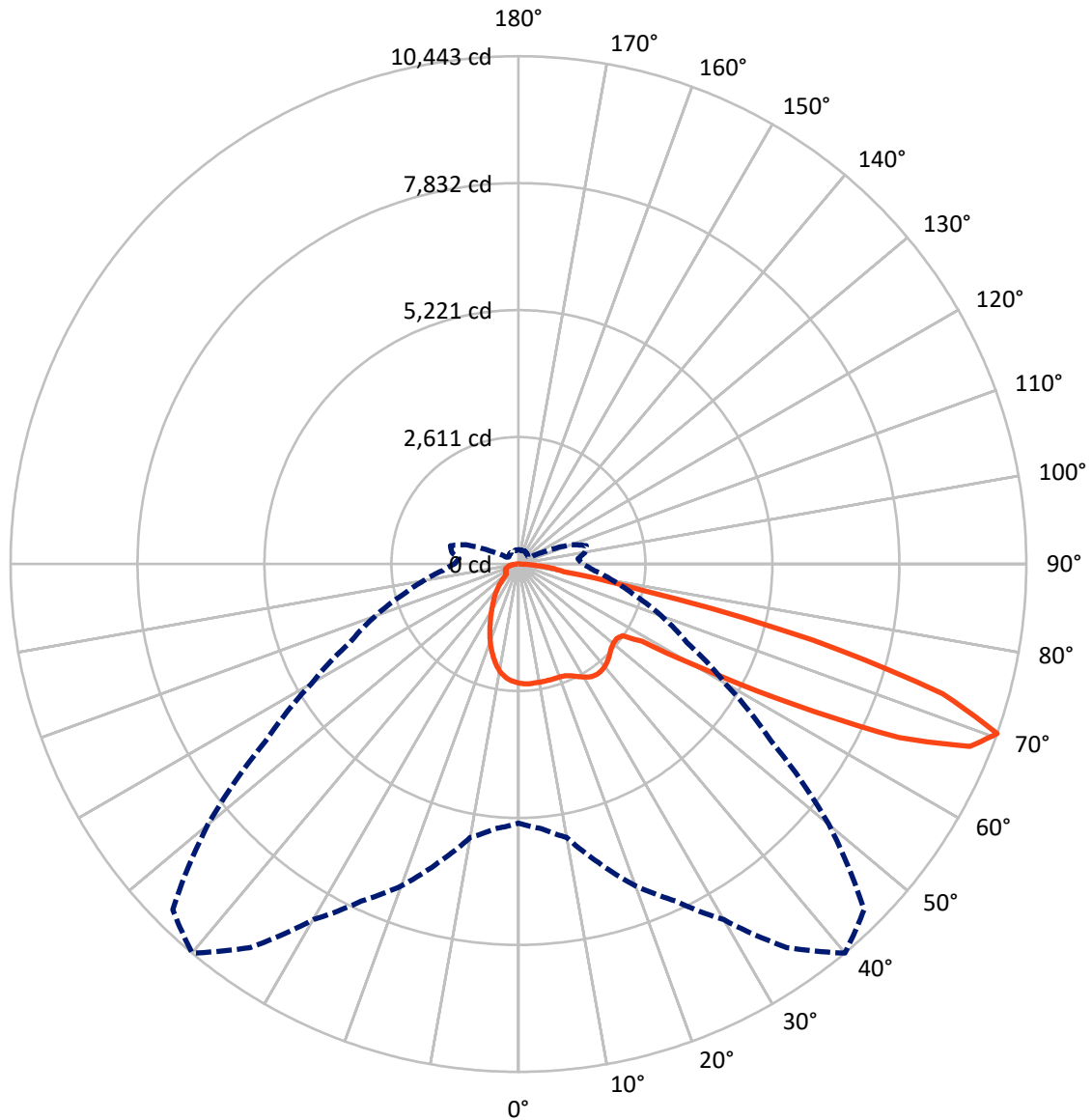
✕ Max cd
 - - - 1/2 Max cd



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	2384.8	0.0	2384.8
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	9103.1	0.0	9103.1
	% Fixture	79.2	0.0	79.2
Total	Lumens	11487.9	0.0	11487.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	2.0
10°-20°	626.9	5.5
20°-30°	928.0	8.1
30°-40°	1172.8	10.2
40°-50°	1326.4	11.5
50°-60°	1887.4	16.4
60°-70°	3515.2	30.6
70°-80°	1611.0	14.0
80°-90°	191.2	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°	11487.9	100.0
0°-180°	11487.9	100.0



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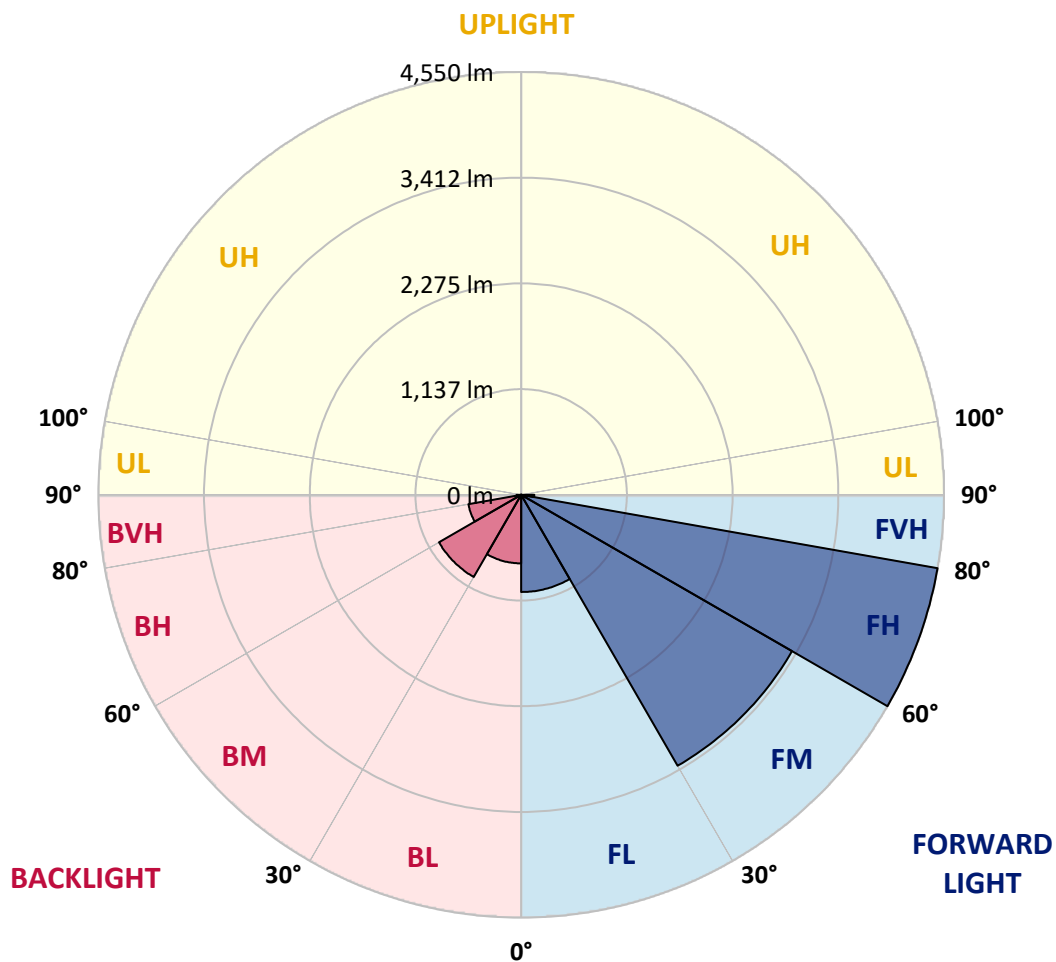
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1046.1	9.1			
FM	(30°-60°)	3365.6	29.3			
FH	(60°-80°)	4549.7	39.6			G2/5000
FVH	(80°-90°)	141.9	1.2			G2/225
BL	(0°-30°)	737.9	6.4	B2/1000		
BM	(30°-60°)	1021.0	8.9	B2/2500		
BH	(60°-80°)	576.5	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.4	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°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2488.9	2495.3	2487.6	2486.2	2486.2	2484.9	2477.1	2475.8	2465.5	2466.8	2469.4
5°	2507.0	2509.6	2504.4	2503.1	2500.5	2495.3	2488.9	2481.0	2473.2	2465.5	2459.0
7.5°	2525.1	2522.5	2518.6	2518.6	2514.7	2507.0	2494.0	2483.6	2466.8	2457.7	2446.1
10°	2551.1	2547.2	2542.0	2539.4	2532.9	2521.2	2503.1	2488.9	2468.1	2450.0	2430.5
12.5°	2575.6	2574.3	2566.6	2562.7	2552.3	2540.7	2518.6	2496.6	2469.4	2440.9	2414.9
15°	2619.7	2614.5	2606.8	2599.0	2582.2	2566.6	2532.9	2507.0	2468.1	2430.5	2390.3
17.5°	2696.2	2687.2	2679.4	2662.5	2641.8	2614.5	2565.3	2521.2	2468.1	2413.6	2368.3
20°	2836.2	2816.8	2806.4	2784.4	2748.1	2698.8	2622.3	2551.1	2471.9	2402.0	2341.0
22.5°	2994.3	2981.4	2967.2	2952.9	2895.8	2824.6	2720.9	2614.5	2495.3	2396.8	2319.0
25°	3171.9	3155.1	3147.3	3122.7	3069.5	2987.9	2846.6	2698.8	2548.5	2417.5	2319.0
27.5°	3330.1	3325.0	3323.6	3295.1	3244.6	3148.6	2981.4	2803.8	2621.0	2460.3	2338.4
30°	3474.0	3468.8	3466.2	3450.6	3392.3	3278.3	3096.8	2897.1	2700.1	2519.9	2374.7
32.5°	3626.9	3610.1	3602.3	3572.5	3506.3	3372.9	3165.5	2958.1	2762.3	2578.2	2414.9
35°	3751.4	3737.1	3721.6	3678.8	3585.4	3427.3	3195.3	2978.8	2787.0	2610.7	2435.6
37.5°	3842.1	3827.8	3805.8	3751.4	3636.0	3445.4	3194.0	2972.3	2777.9	2605.5	2439.5
40°	3882.3	3868.0	3844.7	3776.0	3645.0	3435.1	3169.3	2942.5	2750.6	2578.2	2424.0
42.5°	3866.7	3856.4	3826.5	3760.5	3616.6	3388.4	3120.1	2886.8	2698.8	2534.2	2389.0
45°	3807.1	3799.4	3770.8	3700.9	3551.7	3313.2	3047.6	2816.8	2636.6	2479.7	2342.3
47.5°	3717.7	3715.1	3686.5	3617.9	3470.1	3238.1	2972.3	2748.1	2574.3	2426.6	2303.5
50°	3619.2	3606.2	3591.9	3528.4	3393.6	3173.2	2917.9	2705.3	2539.4	2407.2	2286.6
52.5°	3557.0	3553.0	3540.1	3483.1	3353.4	3135.6	2893.2	2689.8	2536.8	2403.3	2277.5
55°	4109.1	4118.3	3999.0	3751.4	3533.6	3239.4	2967.2	2768.9	2600.3	2465.5	2373.4
57.5°	6078.2	6038.0	5833.2	5341.9	4787.1	4054.7	3527.1	3206.9	2998.3	3021.6	3068.2
60°	7081.4	7073.7	7036.1	6845.5	6476.1	5918.7	5300.4	4591.4	4365.8	4390.4	4408.6
62.5°	7530.0	7541.6	7570.2	7498.8	7401.6	7239.6	6931.1	6645.9	6343.9	6231.1	5929.1
65°	7737.3	7758.1	7822.9	7863.1	7900.7	7929.3	8051.0	8385.5	8605.9	8193.6	7234.5
67.5°	7308.3	7408.1	7622.0	7830.7	8017.4	8283.1	8695.3	9471.8	10012.3	9505.5	8114.6
70°	5327.7	5463.8	5708.7	6354.3	7043.9	7646.7	8445.2	9627.3	10442.7	10051.2	8332.3
72.5°	3340.5	3378.1	3486.9	3724.1	4236.2	5010.1	6406.1	8179.4	9120.5	8808.1	7042.6
75°	2119.4	2132.4	2128.5	2182.9	2269.8	2438.2	2990.4	4831.2	6247.9	5760.6	3925.0
77.5°	1262.5	1282.0	1289.8	1306.6	1348.1	1407.7	1453.1	1643.6	2619.7	2543.3	1424.6
80°	1057.8	1073.3	1060.4	1056.5	1030.5	1012.4	1034.4	1012.4	939.8	904.7	833.5
82.5°	560.0	558.7	554.8	592.4	668.8	728.5	773.9	763.5	690.9	588.5	499.1
85°	307.3	317.6	317.6	330.5	318.9	320.2	330.5	348.7	322.8	269.6	220.4
87.5°	26.0	40.2	32.4	40.2	54.4	38.9	37.6	37.6	32.4	23.3	20.7
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°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2462.9	2460.3	2455.1	2451.3	2451.3	2444.8	2440.9	2438.2	2436.9	2431.8	2431.8
5°	2455.1	2446.1	2436.9	2430.5	2426.6	2420.1	2409.8	2404.6	2398.1	2392.9	2390.3
7.5°	2438.2	2421.4	2407.2	2396.8	2383.8	2373.4	2360.5	2348.9	2337.1	2332.0	2329.4
10°	2412.3	2390.3	2368.3	2348.9	2330.7	2312.6	2295.6	2278.8	2264.6	2254.2	2243.8
12.5°	2387.7	2354.0	2325.5	2296.9	2268.5	2246.4	2223.1	2198.4	2177.7	2158.2	2153.1
15°	2354.0	2315.1	2278.8	2243.8	2208.9	2172.6	2144.0	2116.8	2083.1	2061.0	2044.2
17.5°	2322.9	2276.2	2232.2	2190.7	2147.9	2110.3	2067.5	2031.3	1997.5	1963.8	1939.2
20°	2289.2	2238.6	2192.0	2145.3	2098.6	2050.7	2001.4	1954.8	1913.3	1873.1	1832.9
22.5°	2259.4	2207.5	2162.2	2111.6	2059.7	2005.3	1948.3	1890.0	1842.0	1790.2	1743.5
25°	2241.2	2184.2	2137.5	2088.3	2031.3	1971.6	1906.8	1838.1	1779.7	1720.1	1664.4
27.5°	2241.2	2167.4	2119.4	2070.2	2011.8	1948.3	1876.9	1801.8	1735.7	1669.6	1600.8
30°	2260.7	2170.0	2105.1	2053.3	1993.7	1924.9	1845.9	1766.8	1694.2	1616.5	1550.3
32.5°	2278.8	2175.1	2094.7	2028.7	1959.9	1892.6	1812.2	1727.9	1647.5	1573.7	1503.6
35°	2290.5	2175.1	2075.3	1991.1	1913.3	1847.2	1768.1	1683.8	1602.1	1529.6	1464.8
37.5°	2291.8	2164.8	2044.2	1948.3	1866.6	1797.9	1722.7	1643.6	1565.9	1498.5	1444.0
40°	2278.8	2144.0	2013.1	1902.9	1817.3	1747.4	1678.6	1607.4	1537.4	1481.6	1435.0
42.5°	2255.5	2122.0	1983.3	1866.6	1777.1	1704.6	1641.0	1580.1	1519.2	1471.3	1432.4
45°	2220.5	2092.2	1956.0	1844.6	1756.5	1679.9	1617.8	1567.2	1515.4	1475.2	1436.3
47.5°	2189.4	2081.8	1965.1	1858.8	1766.8	1687.7	1624.2	1581.4	1541.2	1514.1	1460.8
50°	2182.9	2076.6	1969.0	1870.5	1777.1	1696.8	1641.0	1619.0	1607.4	1590.5	1508.8
52.5°	2164.8	2075.3	1997.5	1943.1	1883.5	1845.9	1787.5	1808.3	1795.4	1735.7	1587.9
55°	2355.3	2381.2	2453.8	2557.5	2653.4	2675.5	2669.0	2644.4	2513.4	2162.2	1778.4
57.5°	3238.1	3384.6	3522.0	3582.9	3575.1	3506.3	3457.1	3357.3	3168.0	2740.3	2154.3
60°	4464.3	4487.7	4415.1	4307.5	4126.0	3974.3	3812.3	3625.6	3350.8	2932.1	2385.1
62.5°	5593.3	5279.7	4956.9	4653.6	4377.5	4136.4	3910.8	3650.3	3292.5	2855.6	2355.3
65°	6390.6	5726.9	5217.4	4781.9	4391.7	4054.7	3773.4	3435.1	3031.9	2637.9	2182.9
67.5°	6801.4	5783.9	5002.3	4395.7	3842.1	3375.5	3000.9	2671.6	2372.2	2199.7	1910.7
70°	6342.6	4909.0	3820.1	3134.3	2471.9	1982.0	1565.9	1314.4	1227.5	1390.9	1446.6
72.5°	4726.2	3195.3	2272.4	1757.7	1346.8	1073.3	823.2	646.8	526.2	552.2	716.8
75°	2234.7	1379.3	974.8	741.5	589.8	488.7	399.3	365.6	306.0	254.0	238.5
77.5°	869.8	633.9	523.7	383.7	272.2	219.1	186.7	180.2	184.1	178.9	176.3
80°	662.4	448.5	281.3	206.1	177.6	156.8	138.7	133.5	136.1	142.6	149.0
82.5°	369.4	230.7	171.1	149.0	133.5	114.0	103.7	95.9	97.2	105.0	119.3
85°	142.6	111.4	102.4	98.5	92.0	73.9	63.5	64.8	73.9	88.2	88.2
87.5°	15.5	15.5	20.7	15.5	15.5	15.5	14.2	16.8	18.1	23.3	27.3
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°	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3	2451.3
2.5°	2429.2	2429.2	2429.2	2426.6	2427.9	2422.7	2422.7	2418.8	2425.3	2421.4	2420.1
5°	2391.6	2390.3	2385.1	2385.1	2385.1	2385.1	2389.0	2378.6	2386.4	2386.4	2382.5
7.5°	2328.1	2328.1	2313.8	2321.6	2319.0	2322.9	2328.1	2322.9	2330.7	2335.8	2332.0
10°	2239.9	2239.9	2228.3	2237.3	2233.5	2242.5	2251.6	2246.4	2251.6	2259.4	2262.0
12.5°	2142.7	2137.5	2127.2	2131.1	2131.1	2136.2	2140.1	2146.6	2153.1	2163.5	2168.7
15°	2030.0	2022.2	2009.2	2009.2	2001.4	2004.0	2011.8	2014.4	2027.4	2041.6	2058.4
17.5°	1914.6	1895.2	1880.8	1864.0	1851.1	1861.4	1870.5	1876.9	1887.4	1909.4	1921.0
20°	1805.7	1766.8	1739.5	1717.5	1703.3	1709.8	1721.4	1729.2	1738.2	1743.5	1747.4
22.5°	1698.1	1654.1	1616.5	1589.2	1565.9	1572.4	1567.2	1563.3	1569.8	1552.9	1551.6
25°	1604.8	1552.9	1502.3	1470.0	1441.4	1432.4	1405.1	1398.7	1380.5	1366.2	1355.9
27.5°	1537.4	1470.0	1414.2	1376.7	1331.3	1297.6	1262.5	1227.5	1208.1	1184.8	1173.1
30°	1484.2	1412.9	1346.8	1283.3	1223.6	1171.8	1125.1	1079.8	1048.7	1015.0	992.9
32.5°	1435.0	1368.8	1288.5	1201.6	1121.3	1062.9	1002.1	950.1	900.9	856.8	824.4
35°	1401.2	1327.4	1224.9	1118.7	1027.9	959.3	894.4	820.6	760.9	703.9	668.8
37.5°	1383.1	1292.4	1166.6	1048.7	947.5	869.8	789.4	703.9	631.3	578.1	525.0
40°	1368.8	1257.4	1114.8	986.4	880.2	786.8	693.5	592.4	512.0	456.3	414.8
42.5°	1353.3	1218.5	1069.4	937.2	819.3	710.3	597.6	490.0	413.5	374.6	356.5
45°	1336.5	1184.8	1026.6	890.5	759.6	627.4	497.8	398.0	352.6	339.6	339.6
47.5°	1332.6	1162.7	995.5	845.1	692.2	531.4	405.8	343.5	330.5	333.1	338.3
50°	1348.1	1156.3	968.3	792.0	602.8	430.3	343.5	322.8	325.4	333.1	340.9
52.5°	1385.7	1161.5	939.8	718.1	496.5	355.2	317.6	316.3	324.1	335.7	343.5
55°	1449.2	1161.5	885.3	607.9	396.7	318.9	308.5	313.7	324.1	334.4	340.9
57.5°	1585.3	1149.8	789.4	486.1	331.8	306.0	306.0	312.4	321.5	331.8	337.0
60°	1747.4	1134.2	654.6	375.9	299.4	295.5	304.7	312.4	320.2	329.2	334.4
62.5°	1757.7	1094.1	518.5	311.1	282.6	289.0	303.4	313.7	316.3	322.8	329.2
65°	1615.2	954.1	412.2	278.7	274.8	285.2	299.4	307.3	308.5	311.1	317.6
67.5°	1414.2	777.8	333.1	263.2	267.1	278.7	286.5	292.9	296.8	303.4	304.7
70°	1161.5	624.8	285.2	247.6	251.4	264.5	270.9	277.4	285.2	292.9	289.0
72.5°	823.2	486.1	250.1	230.7	235.9	247.6	255.4	260.6	267.1	274.8	269.6
75°	350.0	339.6	216.5	208.7	216.5	224.3	232.0	239.8	246.3	250.1	250.1
77.5°	178.9	199.6	186.7	186.7	191.8	199.6	206.1	213.9	217.8	221.7	226.9
80°	151.6	154.2	156.8	162.0	167.3	175.0	181.5	188.0	189.2	190.5	193.1
82.5°	125.8	130.9	133.5	141.3	145.2	147.8	151.6	151.6	154.2	154.2	150.3
85°	90.7	97.2	101.1	102.4	101.1	102.4	103.7	106.3	112.7	112.7	107.6
87.5°	26.0	24.7	31.1	32.4	35.0	40.2	45.4	54.4	57.0	59.6	59.6
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):

	165°	170°	175°	180°
0°	2451.3	2451.3	2451.3	2451.3
2.5°	2418.8	2421.4	2416.2	2417.5
5°	2382.5	2387.7	2381.2	2389.0
7.5°	2335.8	2343.6	2342.3	2341.0
10°	2268.5	2278.8	2278.8	2282.7
12.5°	2182.9	2189.4	2194.5	2197.1
15°	2067.5	2079.2	2085.7	2085.7
17.5°	1928.8	1936.6	1940.5	1935.4
20°	1752.6	1750.0	1751.3	1738.2
22.5°	1549.0	1552.9	1541.2	1543.8
25°	1349.4	1342.9	1348.1	1340.3
27.5°	1156.3	1157.6	1143.3	1149.8
30°	972.2	965.7	947.5	956.7
32.5°	794.6	777.8	758.3	746.6
35°	627.4	601.5	592.4	588.5
37.5°	492.6	464.1	455.0	444.7
40°	391.4	381.1	377.2	379.8
42.5°	351.3	351.3	353.9	355.2
45°	340.9	344.8	348.7	350.0
47.5°	342.2	346.1	351.3	352.6
50°	344.8	348.7	352.6	353.9
52.5°	346.1	346.1	348.7	350.0
55°	343.5	342.2	343.5	344.8
57.5°	338.3	335.7	337.0	340.9
60°	335.7	331.8	334.4	337.0
62.5°	329.2	327.9	330.5	331.8
65°	315.0	316.3	320.2	320.2
67.5°	302.0	303.4	304.7	306.0
70°	286.5	287.8	290.3	291.6
72.5°	268.3	273.5	277.4	282.6
75°	254.0	259.3	267.1	272.2
77.5°	229.4	233.3	242.4	248.8
80°	194.4	193.1	194.4	198.3
82.5°	149.0	149.0	147.8	146.5
85°	105.0	103.7	99.8	99.8
87.5°	57.0	55.7	54.4	51.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)