

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: P180887

Luminaire Tested: **ICM-E04-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180887
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-E04-LED-E1-SL4-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10039.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

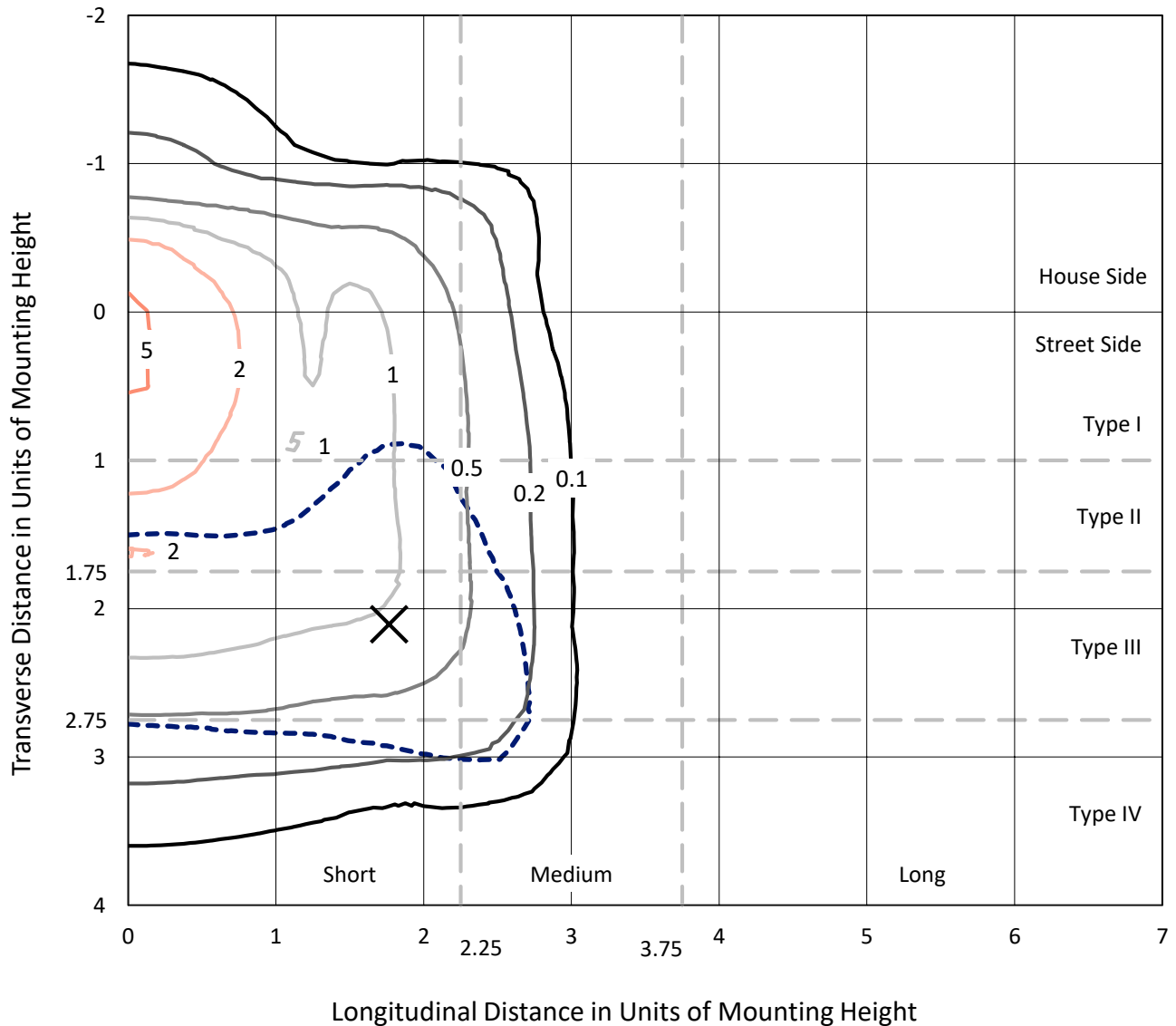
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

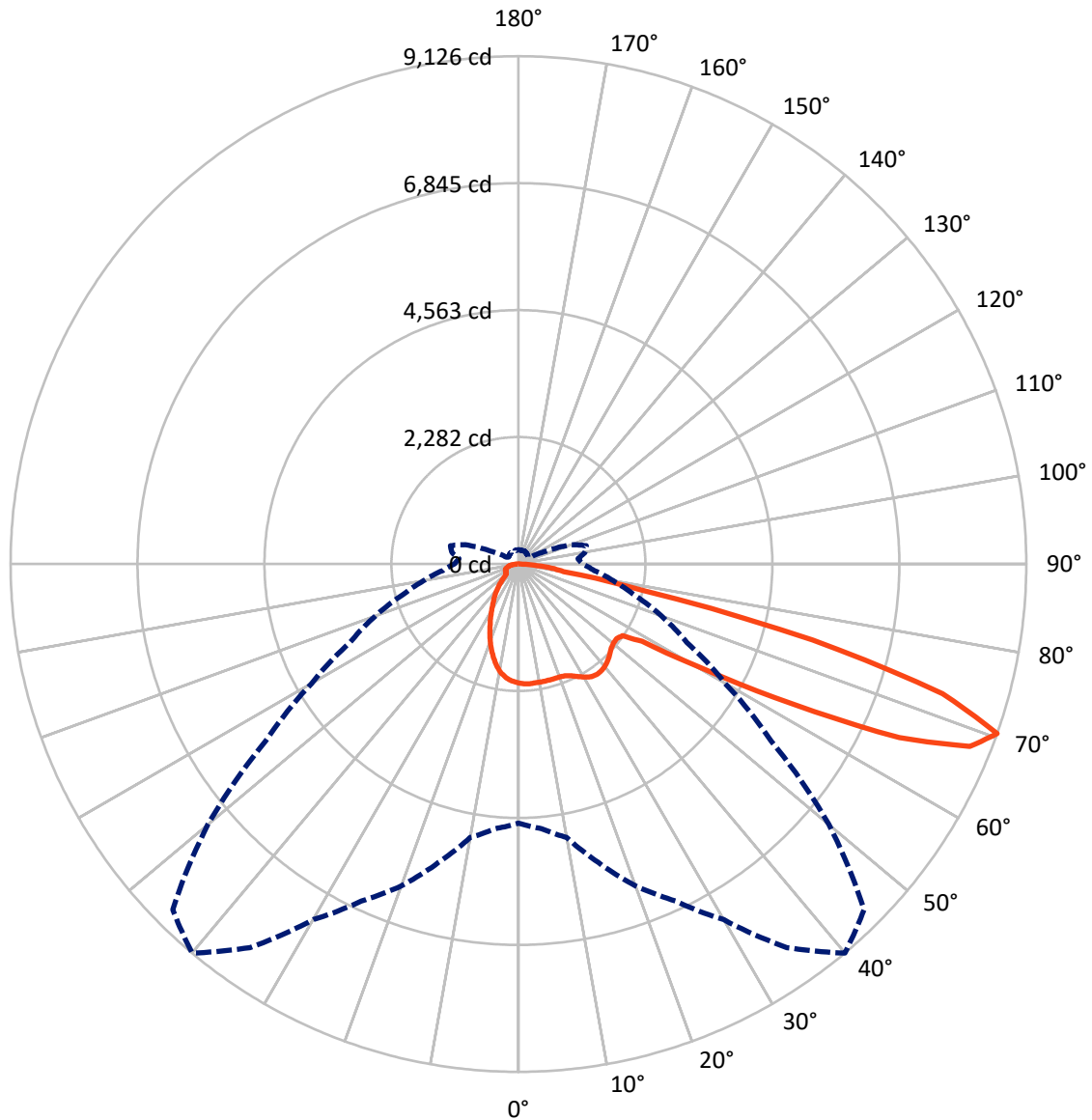
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 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	2084.1	0.0	2084.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7955.5	0.0	7955.5
	% Fixture	79.2	0.0	79.2
Total	Lumens	10039.7	0.0	10039.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	2.0
10°-20°	547.9	5.5
20°-30°	811.0	8.1
30°-40°	1024.9	10.2
40°-50°	1159.1	11.5
50°-60°	1649.5	16.4
60°-70°	3072.0	30.6
70°-80°	1407.9	14.0
80°-90°	167.1	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°	10039.7	100.0
0°-180°	10039.7	100.0



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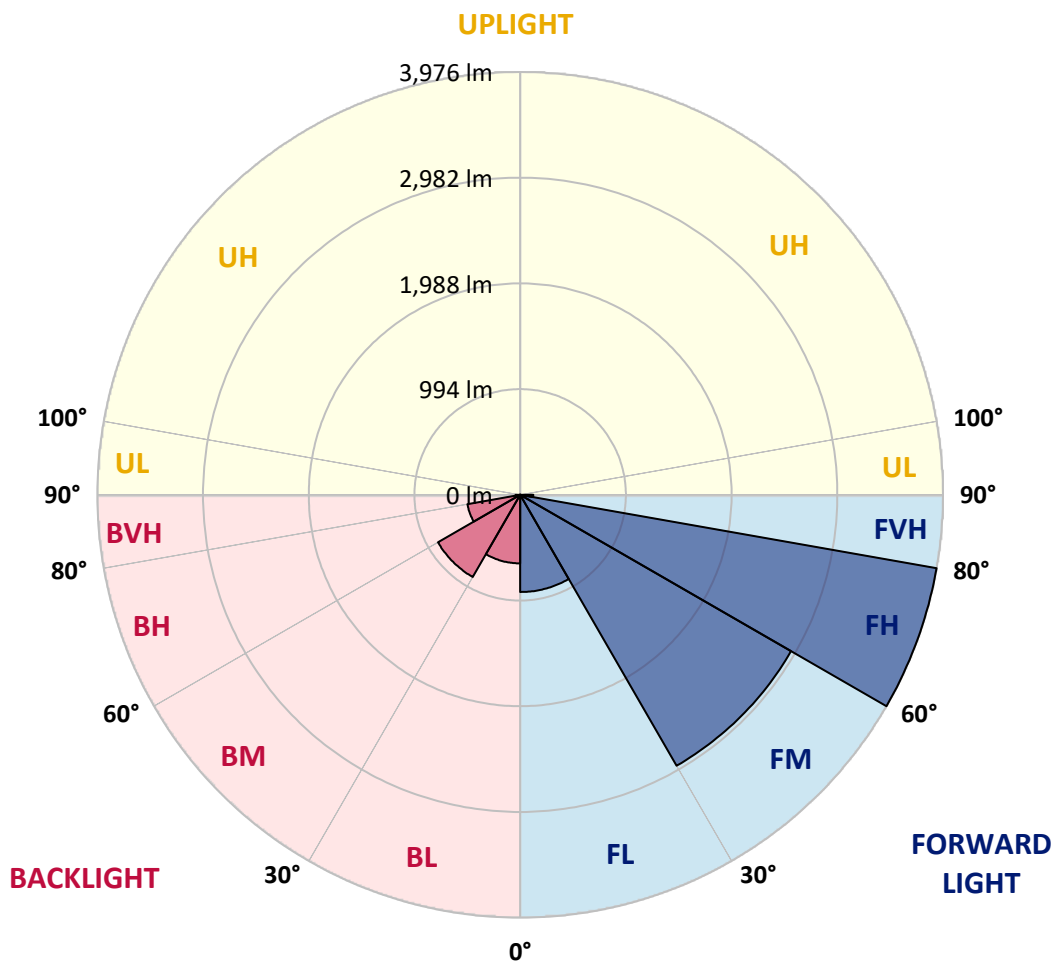
CATALOG NUMBER: ICM-E04-LED-E1-SL4-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	914.2	9.1			
FM	(30°-60°)	2941.3	29.3			
FH	(60°-80°)	3976.1	39.6			G2/5000
FVH	(80°-90°)	124.0	1.2			G2/225
BL	(0°-30°)	644.8	6.4	B2/1000		
BM	(30°-60°)	892.3	8.9	B1/1000		
BH	(60°-80°)	503.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	43.2	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°	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2
2.5°	2175.1	2180.8	2174.0	2172.8	2172.8	2171.6	2164.9	2163.7	2154.7	2155.8	2158.1
5°	2190.9	2193.2	2188.7	2187.5	2185.2	2180.8	2175.1	2168.3	2161.5	2154.7	2149.0
7.5°	2206.8	2204.5	2201.1	2201.1	2197.7	2190.9	2179.5	2170.5	2155.8	2147.8	2137.7
10°	2229.4	2226.1	2221.5	2219.3	2213.6	2203.4	2187.5	2175.1	2156.9	2141.0	2124.1
12.5°	2251.0	2249.9	2243.0	2239.6	2230.5	2220.4	2201.1	2181.9	2158.1	2133.1	2110.5
15°	2289.5	2284.9	2278.2	2271.4	2256.7	2243.0	2213.6	2190.9	2156.9	2124.1	2088.9
17.5°	2356.3	2348.4	2341.6	2326.9	2308.8	2284.9	2241.9	2203.4	2156.9	2109.3	2069.7
20°	2478.6	2461.7	2452.6	2433.3	2401.6	2358.6	2291.7	2229.4	2160.3	2099.2	2045.9
22.5°	2616.9	2605.5	2593.0	2580.6	2530.8	2468.5	2377.9	2284.9	2180.8	2094.6	2026.6
25°	2772.1	2757.3	2750.5	2729.0	2682.6	2611.2	2487.7	2358.6	2227.2	2112.8	2026.6
27.5°	2910.3	2905.8	2904.6	2879.6	2835.6	2751.6	2605.5	2450.3	2290.6	2150.2	2043.6
30°	3036.0	3031.5	3029.2	3015.6	2964.7	2864.9	2706.3	2531.9	2359.7	2202.2	2075.4
32.5°	3169.7	3155.0	3148.2	3122.2	3064.4	2947.6	2766.4	2585.1	2414.1	2253.2	2110.5
35°	3278.4	3266.0	3252.4	3215.0	3133.4	2995.3	2792.5	2603.3	2435.6	2281.6	2128.6
37.5°	3357.8	3345.3	3326.1	3278.4	3177.6	3011.1	2791.4	2597.6	2427.6	2277.0	2132.0
40°	3392.9	3380.4	3360.0	3300.0	3185.6	3002.1	2769.8	2571.6	2403.9	2253.2	2118.4
42.5°	3379.3	3370.3	3344.1	3286.3	3160.7	2961.2	2726.7	2522.8	2358.6	2214.7	2087.8
45°	3327.2	3320.4	3295.5	3234.3	3104.0	2895.6	2663.3	2461.7	2304.2	2167.2	2047.1
47.5°	3249.0	3246.7	3221.8	3161.8	3032.7	2829.9	2597.6	2401.6	2249.9	2120.7	2013.0
50°	3162.9	3151.6	3139.1	3083.6	2965.8	2773.2	2550.1	2364.2	2219.3	2103.7	1998.3
52.5°	3108.5	3105.1	3093.8	3043.9	2930.6	2740.4	2528.5	2350.6	2216.9	2100.3	1990.4
55°	3591.1	3599.1	3494.8	3278.4	3088.1	2831.0	2593.0	2419.7	2272.5	2154.7	2074.2
57.5°	5311.9	5276.8	5097.8	4668.5	4183.6	3543.6	3082.4	2802.6	2620.3	2640.7	2681.4
60°	6188.7	6181.9	6149.1	5982.5	5659.7	5172.6	4632.2	4012.5	3815.5	3837.0	3852.8
62.5°	6580.7	6590.9	6615.9	6553.5	6468.5	6326.9	6057.3	5808.1	5544.1	5445.6	5181.6
65°	6762.0	6780.0	6836.7	6871.9	6904.7	6929.6	7036.1	7328.4	7521.0	7160.7	6322.4
67.5°	6387.0	6474.2	6661.2	6843.5	7006.6	7238.8	7599.1	8277.7	8750.1	8307.1	7091.6
70°	4656.0	4774.9	4989.1	5553.2	6155.9	6682.6	7380.5	8413.6	9126.2	8784.1	7281.9
72.5°	2919.4	2952.2	3047.4	3254.6	3702.2	4378.4	5598.5	7148.2	7970.7	7697.7	6154.7
75°	1852.2	1863.5	1860.1	1907.7	1983.6	2130.9	2613.5	4222.1	5460.3	5034.4	3430.3
77.5°	1103.4	1120.4	1127.2	1141.9	1178.1	1230.2	1270.0	1436.5	2289.5	2222.6	1245.0
80°	924.4	938.0	926.7	923.3	900.7	884.7	904.0	884.7	821.3	790.7	728.4
82.5°	489.4	488.3	484.8	517.7	584.6	636.7	676.3	667.3	603.8	514.3	436.2
85°	268.5	277.6	277.6	288.8	278.7	279.8	288.8	304.7	282.0	235.6	192.6
87.5°	22.7	35.2	28.3	35.2	47.5	34.0	32.8	32.8	28.3	20.4	18.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2
2.5°	2152.4	2150.2	2145.6	2142.2	2142.2	2136.6	2133.1	2130.9	2129.8	2125.2	2125.2
5°	2145.6	2137.7	2129.8	2124.1	2120.7	2115.0	2106.0	2101.4	2095.7	2091.3	2088.9
7.5°	2130.9	2116.2	2103.7	2094.6	2083.3	2074.2	2062.9	2052.8	2042.5	2038.0	2035.7
10°	2108.2	2088.9	2069.7	2052.8	2036.8	2021.0	2006.2	1991.5	1979.1	1970.1	1960.9
12.5°	2086.7	2057.2	2032.3	2007.4	1982.5	1963.2	1942.8	1921.3	1903.2	1886.2	1881.7
15°	2057.2	2023.3	1991.5	1960.9	1930.3	1898.6	1873.7	1850.0	1820.5	1801.2	1786.5
17.5°	2030.1	1989.3	1950.8	1914.5	1877.1	1844.3	1806.9	1775.2	1745.7	1716.3	1694.7
20°	2000.6	1956.4	1915.6	1874.9	1834.1	1792.2	1749.1	1708.3	1672.1	1636.9	1601.9
22.5°	1974.5	1929.2	1889.6	1845.4	1800.1	1752.5	1702.7	1651.7	1609.8	1564.5	1523.6
25°	1958.7	1908.8	1868.1	1825.0	1775.2	1723.1	1666.4	1606.3	1555.4	1503.3	1454.6
27.5°	1958.7	1894.2	1852.2	1809.1	1758.2	1702.7	1640.4	1574.6	1516.8	1459.1	1399.1
30°	1975.6	1896.4	1839.7	1794.4	1742.3	1682.2	1613.1	1544.1	1480.7	1412.7	1354.9
32.5°	1991.5	1900.9	1830.7	1772.9	1712.8	1654.0	1583.7	1510.1	1439.8	1375.3	1314.1
35°	2001.8	1900.9	1813.7	1740.0	1672.1	1614.3	1545.2	1471.5	1400.2	1336.8	1280.1
37.5°	2002.9	1891.8	1786.5	1702.7	1631.3	1571.3	1505.6	1436.5	1368.5	1309.6	1262.0
40°	1991.5	1873.7	1759.3	1663.0	1588.3	1527.1	1467.1	1404.8	1343.5	1294.8	1254.1
42.5°	1971.2	1854.4	1733.2	1631.3	1553.1	1489.7	1434.1	1380.9	1327.7	1285.8	1251.8
45°	1940.6	1828.4	1709.5	1612.0	1535.0	1468.2	1413.8	1369.6	1324.3	1289.2	1255.2
47.5°	1913.4	1819.4	1717.4	1624.5	1544.1	1475.0	1419.5	1382.1	1347.0	1323.2	1276.8
50°	1907.7	1814.8	1720.8	1634.7	1553.1	1482.9	1434.1	1414.9	1404.8	1390.0	1318.6
52.5°	1891.8	1813.7	1745.7	1698.1	1646.1	1613.1	1562.1	1580.3	1569.0	1516.8	1387.7
55°	2058.3	2081.0	2144.5	2235.1	2318.9	2338.2	2332.6	2311.0	2196.6	1889.6	1554.2
57.5°	2829.9	2957.9	3078.0	3131.2	3124.4	3064.4	3021.3	2934.1	2768.7	2394.8	1882.8
60°	3901.5	3921.9	3858.4	3764.5	3605.9	3473.3	3331.7	3168.6	2928.4	2562.5	2084.5
62.5°	4888.2	4614.1	4332.0	4066.9	3825.6	3614.9	3417.8	3190.1	2877.4	2495.6	2058.3
65°	5585.0	5004.9	4559.7	4179.1	3838.1	3543.6	3297.7	3002.1	2649.7	2305.3	1907.7
67.5°	5944.0	5054.7	4371.7	3841.5	3357.8	2950.0	2622.5	2334.8	2073.1	1922.4	1669.8
70°	5543.0	4290.1	3338.5	2739.2	2160.3	1732.1	1368.5	1148.7	1072.8	1215.5	1264.3
72.5°	4130.4	2792.5	1985.9	1536.1	1177.0	938.0	719.4	565.3	459.9	482.6	626.4
75°	1953.0	1205.3	851.9	648.0	515.4	427.1	348.9	319.4	267.4	222.0	208.5
77.5°	760.1	554.0	457.7	335.4	237.9	191.4	163.2	157.5	160.8	156.4	154.0
80°	578.9	392.0	245.9	180.1	155.2	137.1	121.2	116.7	119.0	124.7	130.2
82.5°	322.9	201.7	149.5	130.2	116.7	99.7	90.6	83.8	84.9	91.7	104.2
85°	124.7	97.4	89.5	86.1	80.5	64.6	55.5	56.7	64.6	77.0	77.0
87.5°	13.6	13.6	18.1	13.6	13.6	13.6	12.5	14.7	15.8	20.4	23.8
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°	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2	2142.2
2.5°	2123.0	2123.0	2123.0	2120.7	2121.8	2117.3	2117.3	2113.9	2119.5	2116.2	2115.0
5°	2090.1	2088.9	2084.5	2084.5	2084.5	2084.5	2087.8	2078.8	2085.6	2085.6	2082.2
7.5°	2034.6	2034.6	2022.2	2028.9	2026.6	2030.1	2034.6	2030.1	2036.8	2041.4	2038.0
10°	1957.6	1957.6	1947.4	1955.3	1951.9	1959.8	1967.7	1963.2	1967.7	1974.5	1976.8
12.5°	1872.6	1868.1	1859.0	1862.4	1862.4	1866.9	1870.3	1876.0	1881.7	1890.7	1895.3
15°	1774.1	1767.3	1755.9	1755.9	1749.1	1751.4	1758.2	1760.5	1771.7	1784.2	1799.0
17.5°	1673.2	1656.2	1643.7	1629.0	1617.7	1626.8	1634.7	1640.4	1649.4	1668.7	1678.9
20°	1578.1	1544.1	1520.3	1501.0	1488.6	1494.2	1504.4	1511.2	1519.2	1523.6	1527.1
22.5°	1484.0	1445.5	1412.7	1388.8	1368.5	1374.1	1369.6	1366.2	1371.9	1357.1	1356.0
25°	1402.4	1357.1	1312.9	1284.7	1259.7	1251.8	1228.0	1222.3	1206.5	1194.1	1184.9
27.5°	1343.5	1284.7	1235.9	1203.1	1163.4	1134.0	1103.4	1072.8	1055.8	1035.4	1025.2
30°	1297.1	1234.8	1177.0	1121.5	1069.4	1024.1	983.4	943.6	916.5	887.0	867.7
32.5°	1254.1	1196.3	1126.1	1050.1	979.9	928.9	875.7	830.3	787.4	748.8	720.5
35°	1224.6	1160.0	1070.5	977.7	898.3	838.3	781.7	717.1	664.9	615.2	584.6
37.5°	1208.8	1129.4	1019.5	916.5	828.1	760.1	689.9	615.2	551.7	505.2	458.8
40°	1196.3	1098.9	974.2	862.1	769.2	687.6	606.1	517.7	447.4	398.8	362.5
42.5°	1182.7	1064.8	934.6	819.1	715.9	620.8	522.2	428.2	361.4	327.4	311.5
45°	1168.0	1035.4	897.2	778.2	663.8	548.3	435.0	347.8	308.1	296.8	296.8
47.5°	1164.6	1016.2	870.1	738.6	604.9	464.5	354.6	300.2	288.8	291.2	295.6
50°	1178.1	1010.5	846.2	692.2	526.8	376.1	300.2	282.0	284.4	291.2	298.0
52.5°	1211.0	1015.0	821.3	627.6	433.9	310.4	277.6	276.4	283.3	293.4	300.2
55°	1266.5	1015.0	773.8	531.3	346.6	278.7	269.6	274.1	283.3	292.3	298.0
57.5°	1385.5	1004.8	689.9	424.8	290.0	267.4	267.4	273.0	280.9	290.0	294.5
60°	1527.1	991.3	572.1	328.6	261.7	258.3	266.2	273.0	279.8	287.7	292.3
62.5°	1536.1	956.1	453.1	271.9	247.0	252.7	265.1	274.1	276.4	282.0	287.7
65°	1411.5	833.8	360.3	243.5	240.2	249.2	261.7	268.5	269.6	271.9	277.6
67.5°	1235.9	679.7	291.2	230.0	233.4	243.5	250.3	256.0	259.4	265.1	266.2
70°	1015.0	546.0	249.2	216.4	219.8	231.1	236.7	242.4	249.2	256.0	252.7
72.5°	719.4	424.8	218.6	201.7	206.1	216.4	223.2	227.7	233.4	240.2	235.6
75°	305.9	296.8	189.2	182.4	189.2	196.0	202.8	209.6	215.3	218.6	218.6
77.5°	156.4	174.4	163.2	163.2	167.6	174.4	180.1	186.9	190.3	193.7	198.2
80°	132.6	134.8	137.1	141.6	146.1	152.9	158.6	164.3	165.4	166.5	168.8
82.5°	109.9	114.4	116.7	123.4	126.9	129.1	132.6	132.6	134.8	134.8	131.4
85°	79.3	84.9	88.4	89.5	88.4	89.5	90.6	92.9	98.5	98.5	94.0
87.5°	22.7	21.5	27.2	28.3	30.6	35.2	39.6	47.5	49.9	52.1	52.1
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°	2142.2	2142.2	2142.2	2142.2
2.5°	2113.9	2116.2	2111.6	2112.8
5°	2082.2	2086.7	2081.0	2087.8
7.5°	2041.4	2048.2	2047.1	2045.9
10°	1982.5	1991.5	1991.5	1994.9
12.5°	1907.7	1913.4	1917.9	1920.2
15°	1806.9	1817.1	1822.7	1822.7
17.5°	1685.7	1692.5	1695.8	1691.4
20°	1531.6	1529.3	1530.4	1519.2
22.5°	1353.8	1357.1	1347.0	1349.2
25°	1179.3	1173.6	1178.1	1171.4
27.5°	1010.5	1011.6	999.2	1004.8
30°	849.7	844.0	828.1	836.0
32.5°	694.4	679.7	662.7	652.6
35°	548.3	525.7	517.7	514.3
37.5°	430.5	405.6	397.6	388.6
40°	342.1	333.0	329.7	331.9
42.5°	307.0	307.0	309.3	310.4
45°	298.0	301.3	304.7	305.9
47.5°	299.1	302.5	307.0	308.1
50°	301.3	304.7	308.1	309.3
52.5°	302.5	302.5	304.7	305.9
55°	300.2	299.1	300.2	301.3
57.5°	295.6	293.4	294.5	298.0
60°	293.4	290.0	292.3	294.5
62.5°	287.7	286.6	288.8	290.0
65°	275.3	276.4	279.8	279.8
67.5°	263.9	265.1	266.2	267.4
70°	250.3	251.5	253.8	254.9
72.5°	234.5	239.1	242.4	247.0
75°	222.0	226.6	233.4	237.9
77.5°	200.6	203.9	211.8	217.5
80°	170.0	168.8	170.0	173.3
82.5°	130.2	130.2	129.1	128.0
85°	91.7	90.6	87.3	87.3
87.5°	49.9	48.7	47.5	45.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)