

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: P152174

Luminaire Tested: **VXS-F04-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152174
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: VXS-F04-LED-E1-SL4-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8909.5 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

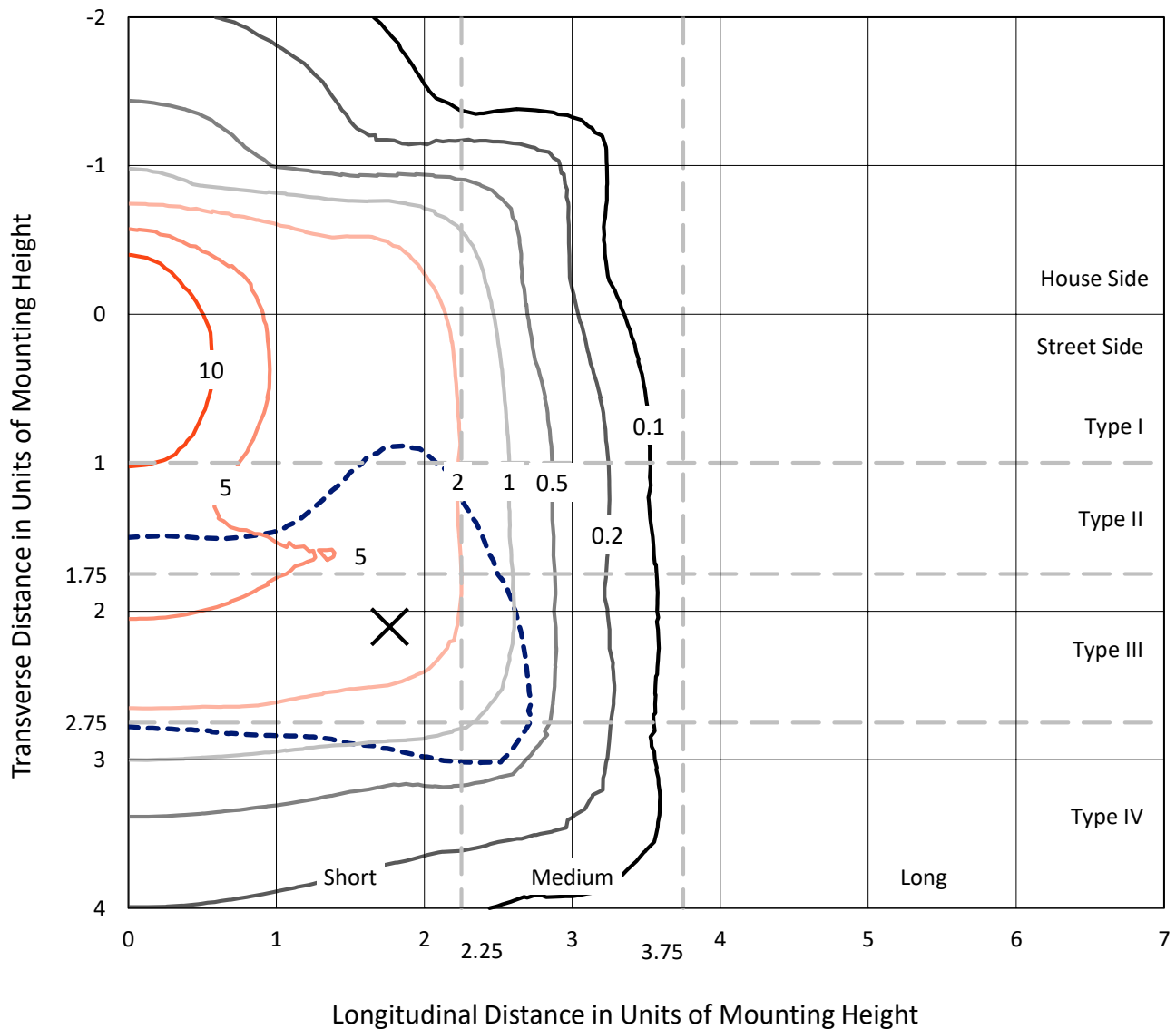


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

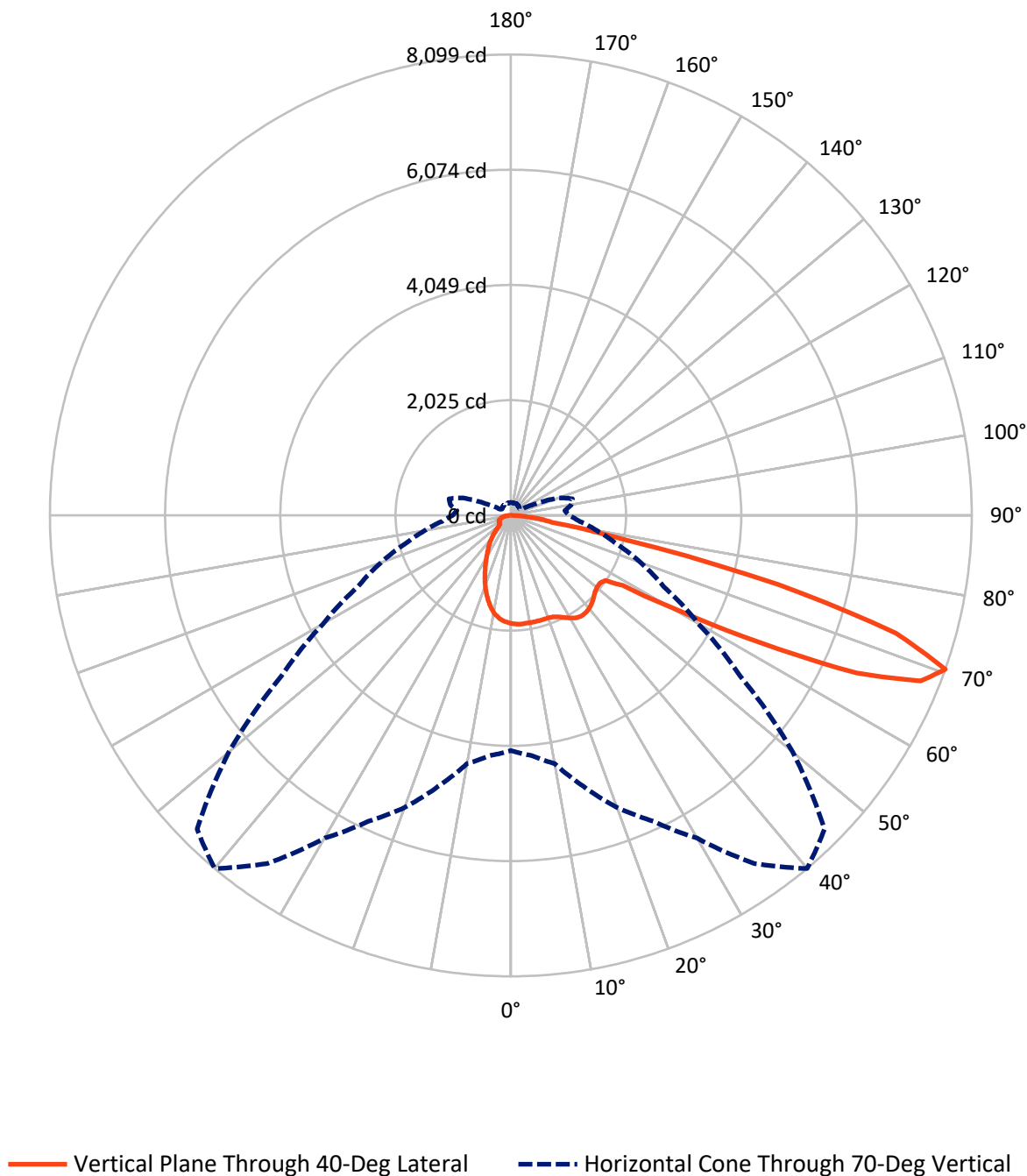


Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1849.5	0.0	1849.5
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	7060.0	0.0	7060.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	8909.5	0.0	8909.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	2.0
10°-20°	486.2	5.5
20°-30°	719.7	8.1
30°-40°	909.6	10.2
40°-50°	1028.7	11.5
50°-60°	1463.8	16.4
60°-70°	2726.2	30.6
70°-80°	1249.4	14.0
80°-90°	148.3	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°	8909.5	100.0
0°-180°	8909.5	100.0

Coefficient of Utilization



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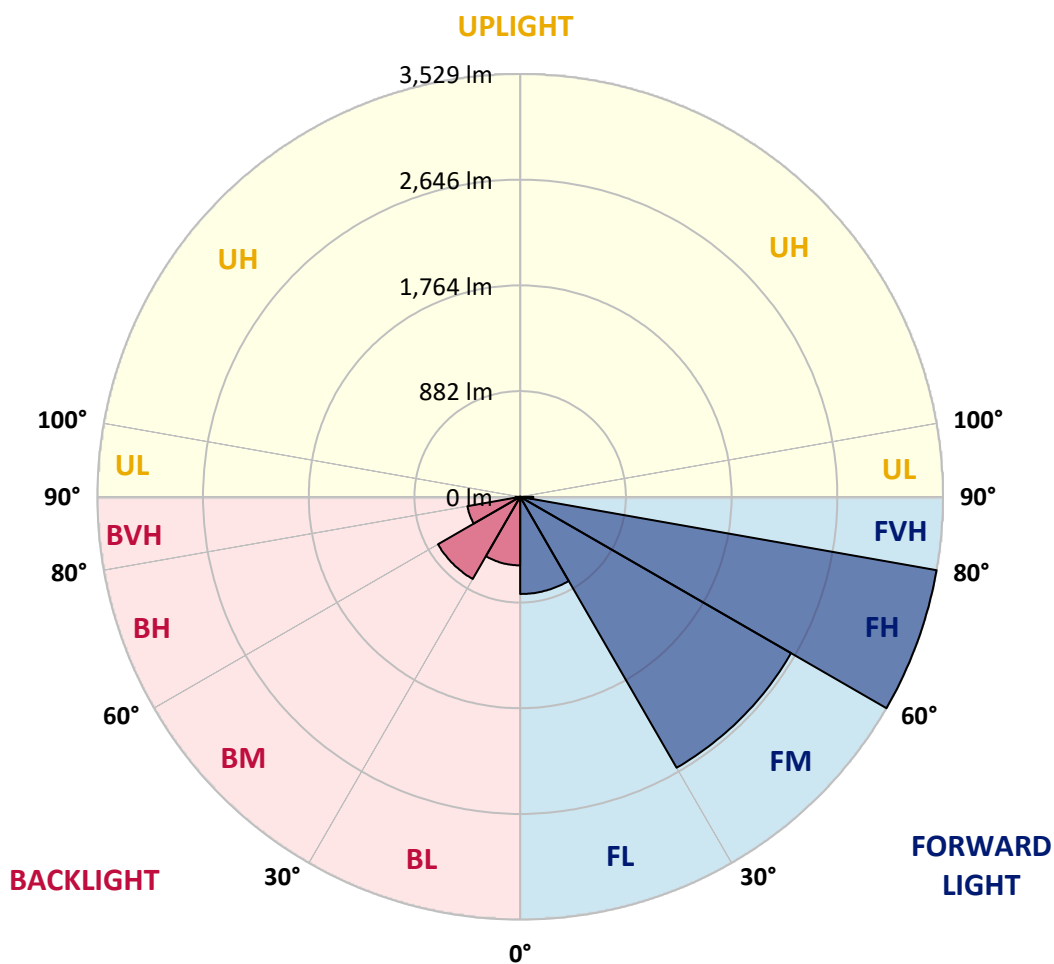
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	811.3	9.1			
FM	(30°-60°)	2610.2	29.3			
FH	(60°-80°)	3528.5	39.6			G2/5000
FVH	(80°-90°)	110.0	1.2			G2/225
BL	(0°-30°)	572.3	6.4	B2/1000		
BM	(30°-60°)	791.8	8.9	B1/1000		
BH	(60°-80°)	447.1	5.0	B1/500		G1/500
BVH	(80°-90°)	38.3	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°	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0
2.5°	1930.3	1935.2	1929.2	1928.2	1928.2	1927.3	1921.1	1920.2	1912.1	1913.2	1915.1
5°	1944.2	1946.3	1942.3	1941.2	1939.3	1935.2	1930.3	1924.1	1918.1	1912.1	1907.2
7.5°	1958.3	1956.4	1953.4	1953.4	1950.4	1944.2	1934.2	1926.2	1913.2	1906.1	1897.1
10°	1978.4	1975.4	1971.4	1969.4	1964.5	1955.3	1941.2	1930.3	1914.1	1900.1	1885.0
12.5°	1997.6	1996.6	1990.6	1987.6	1979.5	1970.5	1953.4	1936.3	1915.1	1893.1	1873.0
15°	2031.7	2027.8	2021.7	2015.6	2002.6	1990.6	1964.5	1944.2	1914.1	1885.0	1853.8
17.5°	2091.1	2084.0	2078.0	2065.0	2048.8	2027.8	1989.5	1955.3	1914.1	1871.9	1836.7
20°	2199.7	2184.6	2176.5	2159.5	2131.3	2093.1	2033.8	1978.4	1917.2	1862.9	1815.6
22.5°	2322.3	2312.2	2301.1	2290.2	2245.9	2190.6	2110.2	2027.8	1935.2	1858.9	1798.5
25°	2460.0	2446.9	2440.9	2421.9	2380.6	2317.3	2207.7	2093.1	1976.5	1874.9	1798.5
27.5°	2582.7	2578.7	2577.6	2555.5	2516.4	2442.0	2312.2	2174.5	2032.7	1908.1	1813.6
30°	2694.3	2690.3	2688.2	2676.2	2631.0	2542.5	2401.8	2246.9	2094.1	1954.3	1841.8
32.5°	2812.8	2799.8	2793.8	2770.7	2719.4	2615.9	2455.0	2294.2	2142.4	1999.6	1873.0
35°	2909.4	2898.3	2886.3	2853.2	2780.7	2658.0	2478.1	2310.3	2161.5	2024.8	1889.0
37.5°	2979.8	2968.7	2951.6	2909.4	2819.9	2672.1	2477.1	2305.2	2154.4	2020.7	1892.0
40°	3011.0	2999.9	2981.8	2928.5	2826.9	2664.1	2458.0	2282.1	2133.3	1999.6	1880.0
42.5°	2998.9	2990.9	2967.7	2916.5	2804.9	2627.9	2419.8	2238.9	2093.1	1965.4	1852.8
45°	2952.6	2946.6	2924.5	2870.2	2754.6	2569.6	2363.5	2184.6	2044.9	1923.2	1816.6
47.5°	2883.3	2881.2	2859.2	2805.9	2691.3	2511.3	2305.2	2131.3	1996.6	1882.0	1786.4
50°	2806.8	2796.8	2785.8	2736.5	2631.9	2461.0	2263.0	2098.1	1969.4	1866.8	1773.4
52.5°	2758.7	2755.5	2745.5	2701.3	2600.7	2431.9	2243.8	2086.0	1967.5	1863.8	1766.3
55°	3186.8	3193.9	3101.5	2909.4	2740.5	2512.3	2301.1	2147.4	2016.7	1912.1	1840.7
57.5°	4714.0	4682.8	4523.9	4142.9	3712.6	3144.7	2735.4	2487.2	2325.3	2343.4	2379.6
60°	5492.1	5486.0	5456.9	5309.1	5022.6	4590.4	4110.8	3560.8	3385.9	3405.1	3419.1
62.5°	5839.9	5849.0	5871.1	5815.8	5740.4	5614.7	5375.4	5154.3	4920.1	4832.6	4598.3
65°	6000.8	6016.9	6067.2	6098.3	6127.5	6149.5	6244.0	6503.4	6674.3	6354.6	5610.7
67.5°	5668.0	5745.4	5911.3	6073.2	6217.9	6424.0	6743.7	7345.9	7765.1	7372.0	6293.4
70°	4131.9	4237.4	4427.5	4928.1	5462.9	5930.4	6549.7	7466.5	8098.9	7795.3	6462.2
72.5°	2590.7	2619.9	2704.4	2888.3	3285.4	3885.6	4968.3	6343.6	7073.5	6831.2	5462.0
75°	1643.7	1653.8	1650.8	1693.0	1760.3	1891.0	2319.3	3746.8	4845.7	4467.7	3044.1
77.5°	979.2	994.3	1000.3	1013.4	1045.5	1091.8	1126.9	1274.7	2031.7	1972.4	1104.9
80°	820.3	832.4	822.4	819.4	799.3	785.2	802.3	785.2	728.9	701.8	646.4
82.5°	434.3	433.3	430.3	459.5	518.8	565.0	600.2	592.1	535.9	456.4	387.0
85°	238.2	246.3	246.3	256.4	247.4	248.3	256.4	270.5	250.4	209.1	170.9
87.5°	20.1	31.2	25.2	31.2	42.2	30.2	29.1	29.1	25.2	18.1	16.1
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°	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0
2.5°	1910.2	1908.1	1904.0	1901.0	1901.0	1896.1	1893.1	1891.0	1890.1	1886.0	1886.0
5°	1904.0	1897.1	1890.1	1885.0	1882.0	1876.9	1868.9	1864.9	1859.9	1855.9	1853.8
7.5°	1891.0	1877.9	1866.8	1858.9	1848.8	1840.7	1830.7	1821.7	1812.6	1808.6	1806.5
10°	1870.9	1853.8	1836.7	1821.7	1807.6	1793.5	1780.4	1767.4	1756.3	1748.3	1740.2
12.5°	1851.8	1825.7	1803.5	1781.5	1759.3	1742.2	1724.1	1705.1	1688.9	1673.9	1669.8
15°	1825.7	1795.5	1767.4	1740.2	1713.1	1685.0	1662.8	1641.7	1615.5	1598.4	1585.4
17.5°	1801.6	1765.4	1731.2	1699.0	1665.8	1636.7	1603.5	1575.3	1549.2	1523.1	1503.9
20°	1775.4	1736.2	1700.0	1663.8	1627.7	1590.5	1552.2	1516.1	1483.8	1452.6	1421.6
22.5°	1752.3	1712.0	1676.9	1637.7	1597.4	1555.2	1511.0	1465.8	1428.6	1388.4	1352.1
25°	1738.2	1694.0	1657.8	1619.6	1575.3	1529.1	1478.9	1425.6	1380.3	1334.1	1290.9
27.5°	1738.2	1680.9	1643.7	1605.5	1560.3	1511.0	1455.8	1397.4	1346.1	1294.8	1241.6
30°	1753.3	1682.9	1632.6	1592.4	1546.2	1493.0	1431.6	1370.3	1314.0	1253.7	1202.4
32.5°	1767.4	1686.9	1624.6	1573.4	1520.0	1467.8	1405.5	1340.1	1277.7	1220.4	1166.2
35°	1776.4	1686.9	1609.5	1544.1	1483.8	1432.5	1371.3	1305.9	1242.6	1186.3	1136.1
37.5°	1777.4	1678.9	1585.4	1511.0	1447.7	1394.4	1336.1	1274.7	1214.4	1162.2	1119.9
40°	1767.4	1662.8	1561.2	1475.9	1409.4	1355.1	1301.9	1246.6	1192.3	1149.1	1112.8
42.5°	1749.2	1645.7	1538.1	1447.7	1378.3	1322.0	1272.7	1225.5	1178.2	1141.0	1110.9
45°	1722.1	1622.6	1517.0	1430.6	1362.2	1302.9	1254.6	1215.4	1175.2	1144.0	1113.9
47.5°	1698.0	1614.5	1524.0	1441.7	1370.3	1308.9	1259.7	1226.5	1195.3	1174.2	1133.0
50°	1693.0	1610.6	1527.0	1450.7	1378.3	1316.0	1272.7	1255.6	1246.6	1233.6	1170.2
52.5°	1678.9	1609.5	1549.2	1506.9	1460.7	1431.6	1386.3	1402.4	1392.3	1346.1	1231.5
55°	1826.6	1846.7	1903.1	1983.5	2057.9	2075.0	2069.9	2050.9	1949.3	1676.9	1379.3
57.5°	2511.3	2624.9	2731.5	2778.8	2772.6	2719.4	2681.2	2603.8	2457.0	2125.3	1670.9
60°	3462.4	3480.4	3424.1	3340.7	3200.0	3082.3	2956.7	2811.9	2598.8	2274.1	1849.8
62.5°	4337.9	4094.7	3844.4	3609.1	3395.0	3208.0	3033.1	2831.0	2553.6	2214.7	1826.6
65°	4956.3	4441.6	4046.4	3708.6	3406.0	3144.7	2926.5	2664.1	2351.5	2045.8	1693.0
67.5°	5274.9	4485.8	3879.6	3409.0	2979.8	2617.8	2327.4	2072.0	1839.8	1706.0	1481.9
70°	4919.1	3807.2	2962.7	2430.9	1917.2	1537.1	1214.4	1019.4	952.0	1078.8	1122.0
72.5°	3665.4	2478.1	1762.4	1363.2	1044.6	832.4	638.3	501.7	408.2	428.3	556.0
75°	1733.2	1069.6	756.0	575.0	457.4	379.0	309.6	283.5	237.3	197.0	185.0
77.5°	674.6	491.6	406.1	297.6	211.1	169.9	144.8	139.7	142.8	138.8	136.7
80°	513.7	347.9	218.1	159.9	137.7	121.7	107.6	103.5	105.6	110.6	115.6
82.5°	286.5	179.0	132.7	115.6	103.5	88.5	80.4	74.4	75.4	81.5	92.5
85°	110.6	86.4	79.4	76.4	71.4	57.3	49.2	50.3	57.3	68.4	68.4
87.5°	12.0	12.0	16.1	12.0	12.0	12.0	11.1	13.1	14.1	18.1	21.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0	1901.0
2.5°	1883.9	1883.9	1883.9	1882.0	1883.0	1879.0	1879.0	1876.0	1880.9	1877.9	1876.9
5°	1854.8	1853.8	1849.8	1849.8	1849.8	1849.8	1852.8	1844.8	1850.8	1850.8	1847.8
7.5°	1805.6	1805.6	1794.5	1800.5	1798.5	1801.6	1805.6	1801.6	1807.6	1811.6	1808.6
10°	1737.2	1737.2	1728.2	1735.2	1732.1	1739.2	1746.2	1742.2	1746.2	1752.3	1754.3
12.5°	1661.8	1657.8	1649.7	1652.7	1652.7	1656.8	1659.8	1664.8	1669.8	1677.9	1681.9
15°	1574.3	1568.3	1558.2	1558.2	1552.2	1554.2	1560.3	1562.3	1572.3	1583.4	1596.5
17.5°	1484.9	1469.7	1458.8	1445.7	1435.6	1443.6	1450.7	1455.8	1463.7	1480.8	1489.8
20°	1400.4	1370.3	1349.1	1332.0	1321.0	1326.0	1335.0	1341.1	1348.2	1352.1	1355.1
22.5°	1317.0	1282.8	1253.7	1232.5	1214.4	1219.5	1215.4	1212.4	1217.4	1204.4	1203.4
25°	1244.6	1204.4	1165.2	1140.0	1117.9	1110.9	1089.7	1084.8	1070.7	1059.6	1051.6
27.5°	1192.3	1140.0	1096.8	1067.7	1032.4	1006.3	979.2	952.0	937.0	918.9	909.8
30°	1151.1	1095.9	1044.6	995.2	949.0	908.8	872.6	837.4	813.3	787.2	770.1
32.5°	1112.8	1061.7	999.3	931.9	869.6	824.4	777.1	736.9	698.7	664.6	639.4
35°	1086.7	1029.4	950.1	867.6	797.2	743.9	693.7	636.4	590.2	545.9	518.8
37.5°	1072.6	1002.3	904.8	813.3	734.9	674.6	612.2	545.9	489.6	448.4	407.2
40°	1061.7	975.1	864.6	765.1	682.6	610.3	537.8	459.5	397.1	353.9	321.7
42.5°	1049.5	945.0	829.4	726.8	635.3	550.9	463.4	380.0	320.7	290.6	276.5
45°	1036.5	918.9	796.2	690.7	589.1	486.5	386.0	308.6	273.5	263.4	263.4
47.5°	1033.5	901.8	772.1	655.4	536.9	412.2	314.7	266.4	256.4	258.3	262.4
50°	1045.5	896.8	751.0	614.3	467.5	333.8	266.4	250.4	252.3	258.3	264.4
52.5°	1074.7	900.7	728.9	557.0	385.1	275.4	246.3	245.3	251.3	260.4	266.4
55°	1123.9	900.7	686.6	471.5	307.7	247.4	239.3	243.3	251.3	259.4	264.4
57.5°	1229.5	891.7	612.2	377.0	257.4	237.3	237.3	242.3	249.3	257.4	261.3
60°	1355.1	879.7	507.7	291.5	232.2	229.2	236.3	242.3	248.3	255.3	259.4
62.5°	1363.2	848.5	402.2	241.2	219.2	224.1	235.2	243.3	245.3	250.4	255.3
65°	1252.6	739.9	319.7	216.2	213.2	221.1	232.2	238.2	239.3	241.2	246.3
67.5°	1096.8	603.2	258.3	204.0	207.0	216.2	222.2	227.3	230.3	235.2	236.3
70°	900.7	484.6	221.1	192.0	195.0	205.1	210.2	215.1	221.1	227.3	224.1
72.5°	638.3	377.0	194.0	179.0	183.0	192.0	198.0	202.1	207.0	213.2	209.1
75°	271.4	263.4	167.9	161.9	167.9	173.9	180.0	186.0	191.0	194.0	194.0
77.5°	138.8	154.8	144.8	144.8	148.8	154.8	159.9	165.9	168.9	171.9	176.0
80°	117.6	119.6	121.7	125.7	129.6	135.8	140.7	145.8	146.7	147.8	149.8
82.5°	97.5	101.6	103.5	109.5	112.6	114.6	117.6	117.6	119.6	119.6	116.6
85°	70.4	75.4	78.4	79.4	78.4	79.4	80.4	82.5	87.5	87.5	83.4
87.5°	20.1	19.1	24.1	25.2	27.2	31.2	35.2	42.2	44.2	46.2	46.2
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°	1901.0	1901.0	1901.0	1901.0
2.5°	1876.0	1877.9	1873.9	1874.9
5°	1847.8	1851.8	1846.7	1852.8
7.5°	1811.6	1817.6	1816.6	1815.6
10°	1759.3	1767.4	1767.4	1770.4
12.5°	1693.0	1698.0	1702.0	1704.0
15°	1603.5	1612.5	1617.6	1617.6
17.5°	1496.0	1502.0	1505.0	1500.9
20°	1359.2	1357.2	1358.2	1348.2
22.5°	1201.3	1204.4	1195.3	1197.3
25°	1046.5	1041.6	1045.5	1039.5
27.5°	896.8	897.7	886.7	891.7
30°	754.0	749.0	734.9	742.0
32.5°	616.3	603.2	588.1	579.1
35°	486.5	466.4	459.5	456.4
37.5°	382.1	359.9	352.8	344.9
40°	303.6	295.5	292.5	294.6
42.5°	272.4	272.4	274.4	275.4
45°	264.4	267.5	270.5	271.4
47.5°	265.4	268.4	272.4	273.5
50°	267.5	270.5	273.5	274.4
52.5°	268.4	268.4	270.5	271.4
55°	266.4	265.4	266.4	267.5
57.5°	262.4	260.4	261.3	264.4
60°	260.4	257.4	259.4	261.3
62.5°	255.3	254.3	256.4	257.4
65°	244.2	245.3	248.3	248.3
67.5°	234.2	235.2	236.3	237.3
70°	222.2	223.2	225.2	226.2
72.5°	208.1	212.1	215.1	219.2
75°	197.0	201.0	207.0	211.1
77.5°	177.9	180.9	188.0	193.1
80°	150.8	149.8	150.8	153.8
82.5°	115.6	115.6	114.6	113.6
85°	81.5	80.4	77.4	77.4
87.5°	44.2	43.2	42.2	40.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)