

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: STREETWORKS

Report Number: P159566

Luminaire Tested: **VST-F06-LED-E-U-T3-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159566
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-T3-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15544 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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: 28.75 FT



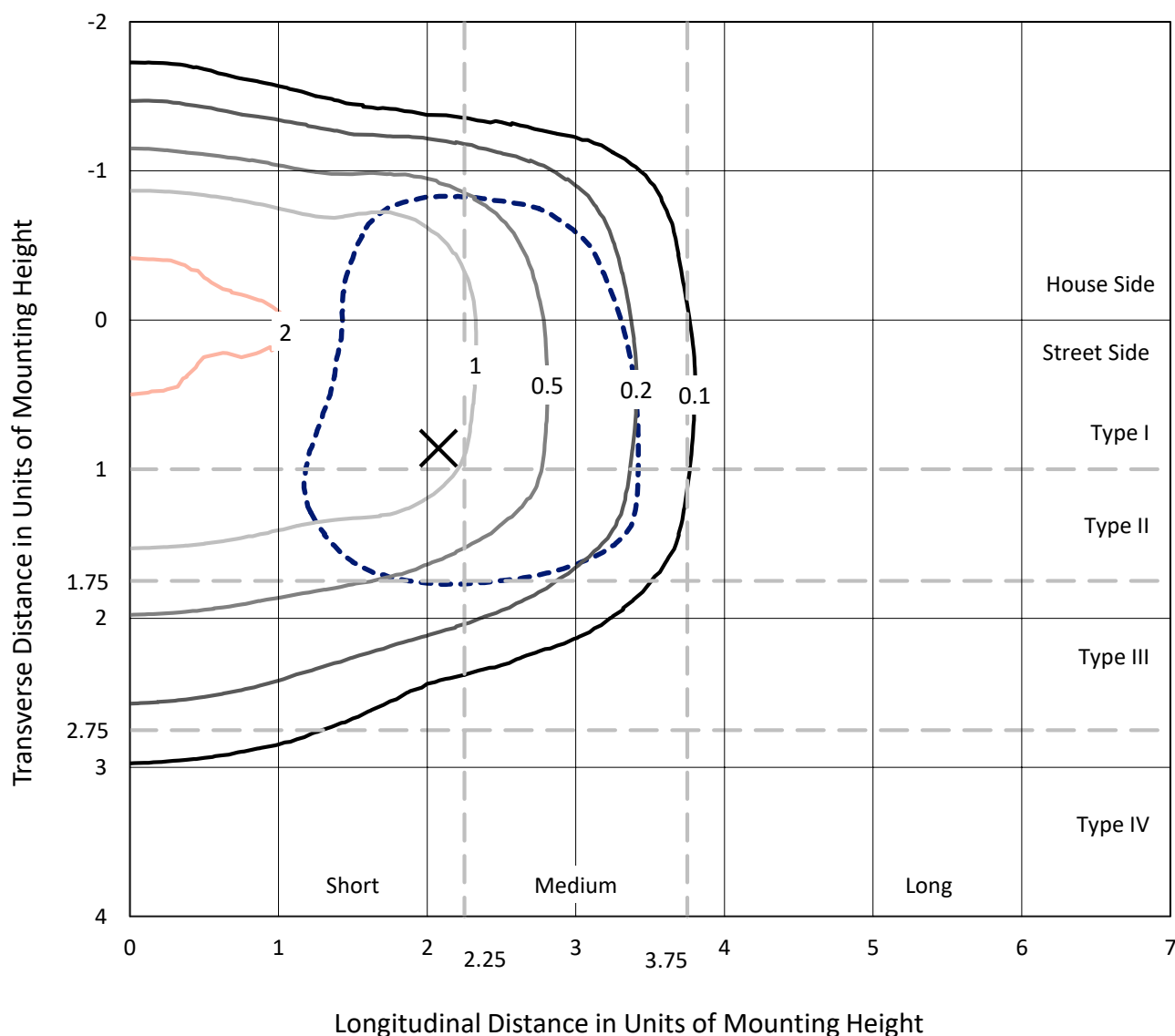
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

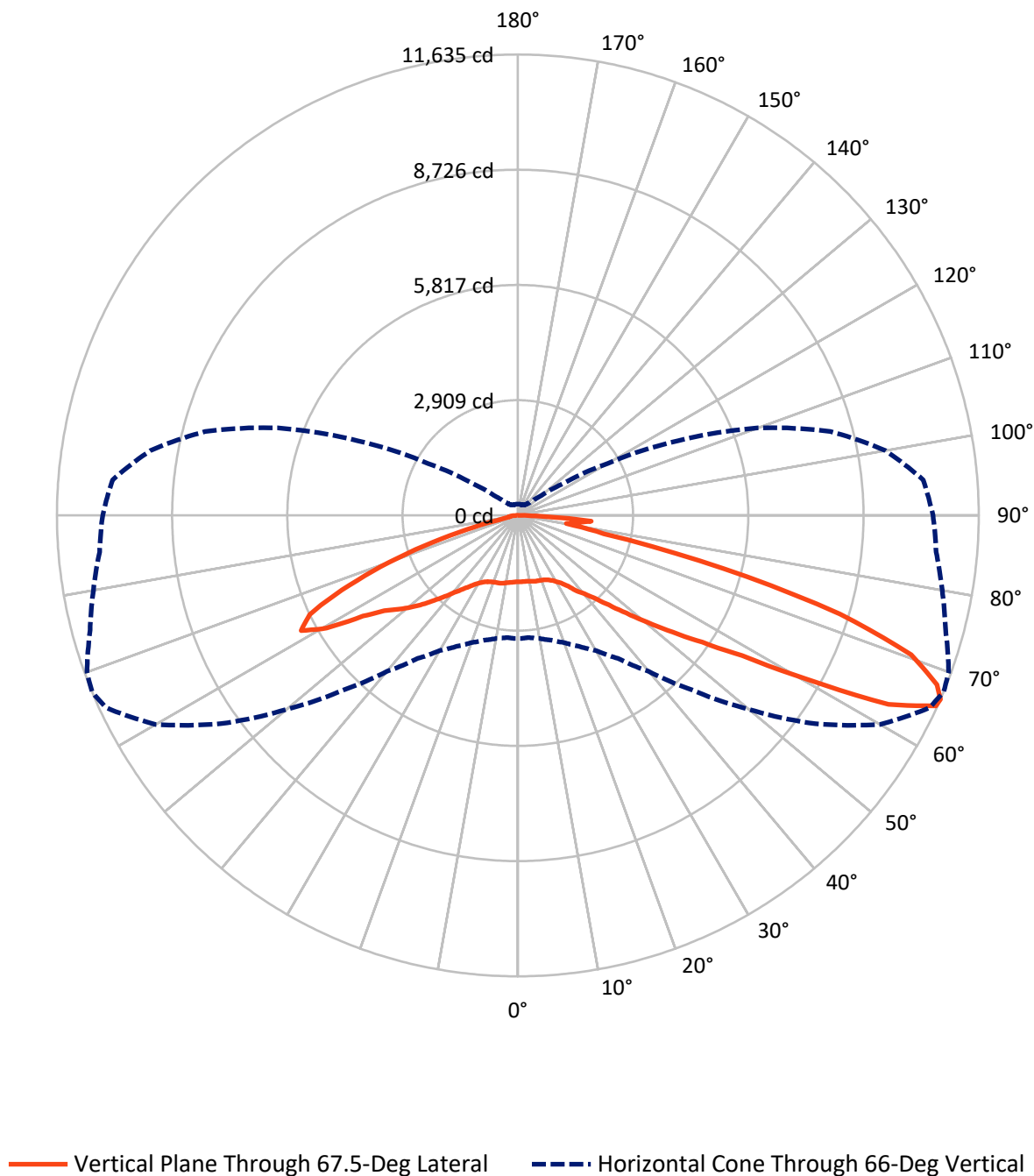


Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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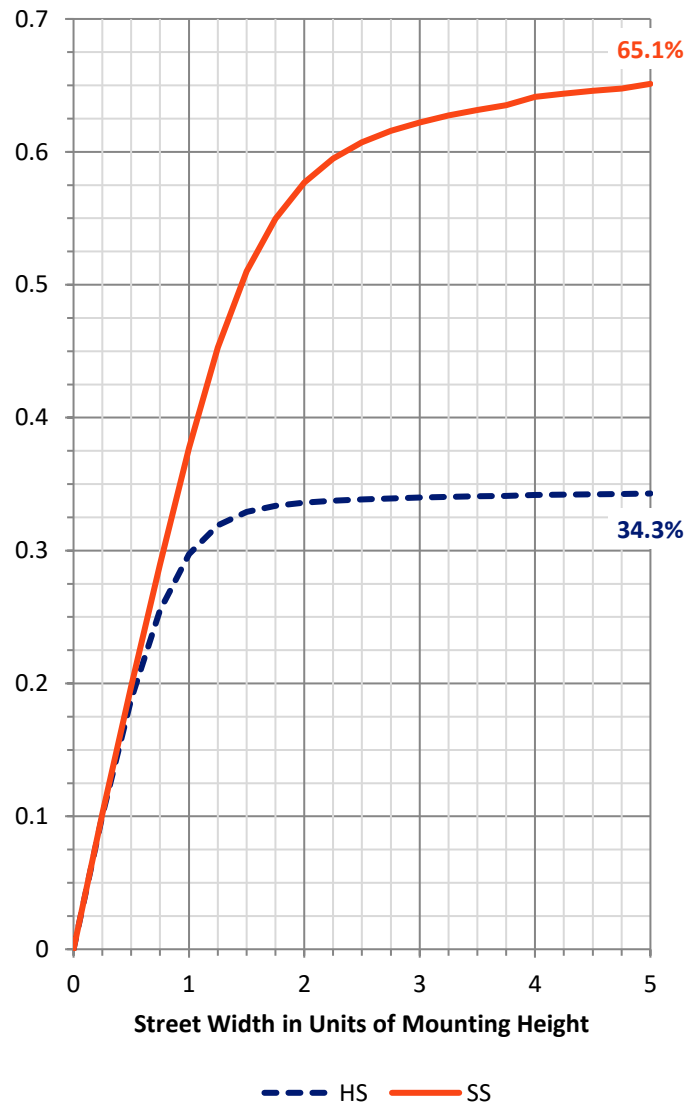
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5378.9	0.0	5378.9
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	10165.1	0.0	10165.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	15544.0	0.0	15544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.0
10°-20°	476.6	3.1
20°-30°	819.2	5.3
30°-40°	1324.0	8.5
40°-50°	2194.3	14.1
50°-60°	3443.7	22.2
60°-70°	4708.2	30.3
70°-80°	2070.4	13.3
80°-90°	346.6	2.2
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°	15544.0	100.0
0°-180°	15544.0	100.0

Coefficient of Utilization



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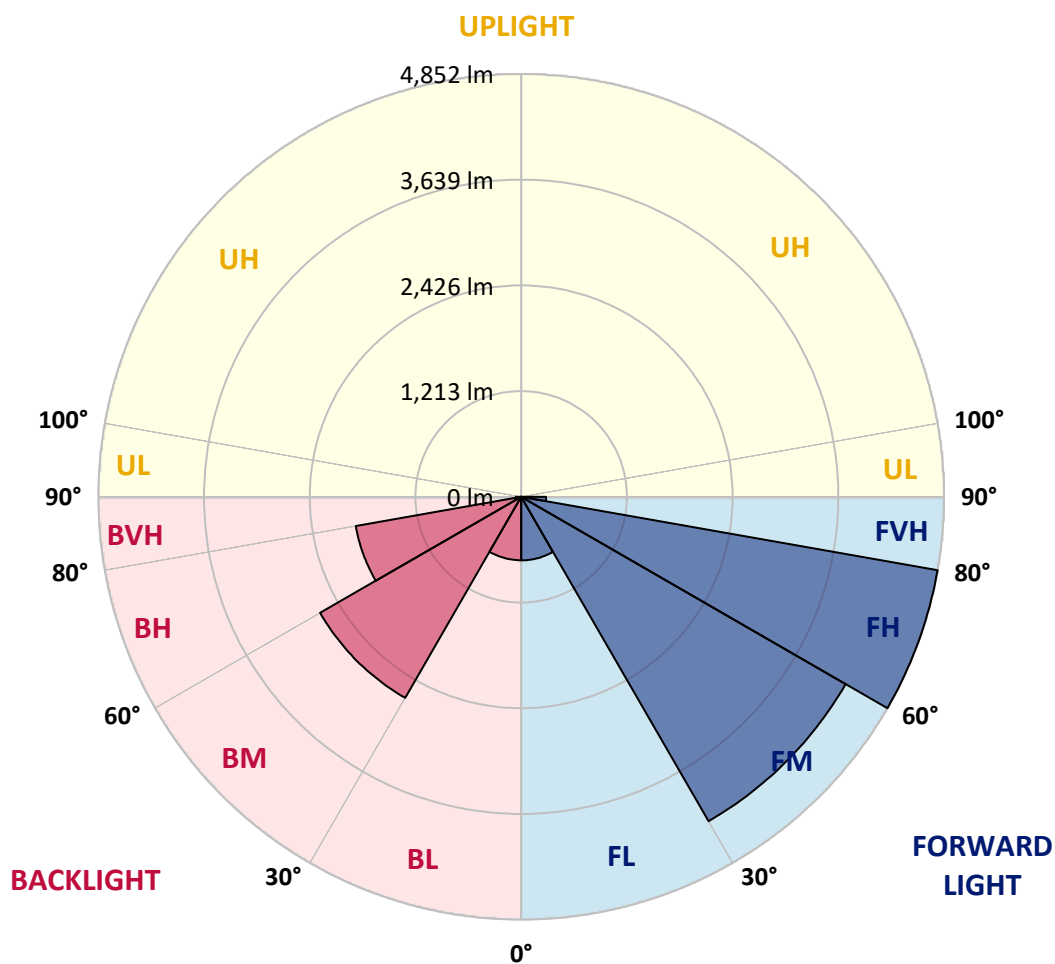
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	729.1	4.7			
FM	(30°-60°)	4298.4	27.7			
FH	(60°-80°)	4851.6	31.2			G2/5000
FVH	(80°-90°)	285.9	1.8			G3/500
BL	(0°-30°)	727.6	4.7	B2/1000		
BM	(30°-60°)	2663.6	17.1	B3/5000		
BH	(60°-80°)	1927.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	60.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1674.2	1674.2	1675.2	1674.2	1674.2	1673.1	1677.2	1677.2	1677.2	1676.2	1679.2
5°	1670.1	1670.1	1671.1	1671.1	1672.1	1671.1	1674.2	1675.2	1675.2	1675.2	1678.2
7.5°	1659.9	1663.0	1660.9	1662.0	1663.0	1666.0	1670.1	1672.1	1674.2	1677.2	1678.2
10°	1638.6	1643.7	1642.6	1645.7	1646.7	1655.9	1658.9	1663.0	1670.1	1674.2	1677.2
12.5°	1609.1	1612.2	1613.2	1617.2	1621.3	1632.5	1640.6	1647.7	1657.9	1668.1	1678.2
15°	1585.7	1587.8	1587.8	1591.8	1597.9	1608.1	1618.3	1630.5	1645.7	1663.0	1679.2
17.5°	1592.8	1597.9	1593.9	1592.8	1594.9	1601.0	1610.1	1620.3	1638.6	1657.9	1677.2
20°	1639.6	1640.6	1638.6	1633.5	1629.4	1630.5	1630.5	1632.5	1643.7	1658.9	1674.2
22.5°	1678.2	1682.3	1681.3	1682.3	1681.3	1685.3	1683.3	1679.2	1675.2	1676.2	1683.3
25°	1711.8	1715.8	1715.8	1718.9	1724.0	1732.1	1738.2	1737.2	1731.1	1723.0	1719.9
27.5°	1766.7	1766.7	1766.7	1769.7	1776.8	1787.0	1797.2	1803.3	1808.3	1800.2	1782.9
30°	1853.1	1854.1	1851.0	1852.0	1857.1	1870.3	1882.5	1891.7	1901.9	1900.8	1878.5
32.5°	1947.6	1951.7	1950.6	1954.7	1961.8	1974.0	1987.2	2001.5	2014.7	2022.8	2008.6
35°	2069.6	2073.6	2074.7	2080.8	2088.9	2107.2	2125.5	2143.8	2158.0	2164.1	2161.1
37.5°	2269.8	2270.8	2266.8	2257.6	2260.7	2274.9	2296.3	2325.7	2334.9	2341.0	2355.2
40°	2569.7	2566.6	2550.4	2542.2	2537.2	2543.3	2539.2	2562.6	2583.9	2584.9	2583.9
42.5°	2933.6	2924.4	2909.2	2907.2	2905.1	2903.1	2891.9	2892.9	2912.2	2917.3	2911.2
45°	3295.5	3284.3	3273.1	3283.3	3271.1	3302.6	3311.7	3336.1	3339.2	3349.3	3334.1
47.5°	3592.3	3593.3	3593.3	3607.5	3631.9	3691.9	3745.8	3792.5	3809.8	3834.2	3837.3
50°	3816.9	3823.0	3842.3	3888.1	3939.9	4040.6	4131.0	4215.4	4291.6	4320.1	4395.3
52.5°	3948.1	3964.3	4005.0	4081.2	4173.7	4303.8	4446.1	4589.5	4721.6	4833.4	4922.9
55°	3924.7	3936.9	4008.0	4127.0	4271.3	4446.1	4645.4	4852.7	5059.1	5248.1	5394.5
57.5°	3774.2	3782.4	3853.5	3987.7	4167.6	4402.4	4684.0	4992.0	5281.7	5586.6	5836.7
60°	3577.0	3589.2	3655.3	3761.0	3949.1	4199.1	4525.4	4943.2	5405.7	5885.5	6353.1
62.5°	3451.0	3447.9	3505.9	3600.4	3741.7	3968.4	4282.5	4777.5	5417.9	6229.1	7153.0
65°	3241.6	3232.4	3292.4	3400.2	3553.7	3773.2	4071.0	4546.8	5289.8	6359.2	7669.4
66°	3111.5	3093.2	3153.2	3261.9	3415.4	3649.2	3934.8	4404.5	5134.3	6232.1	7614.5
67.5°	2883.8	2874.6	2903.1	2988.5	3102.3	3321.9	3619.7	4092.4	4766.3	5849.9	7212.0
70°	2344.0	2323.7	2346.1	2384.7	2428.4	2482.3	2665.2	3040.3	3610.6	4660.6	5810.3
72.5°	1596.9	1586.7	1628.4	1687.4	1804.3	1859.2	1931.3	1992.3	2193.6	2937.7	4052.7
75°	1214.7	1220.8	1273.7	1371.2	1521.7	1684.3	1842.9	1900.8	1833.7	1775.8	2300.3
77.5°	681.0	716.6	780.7	904.7	1064.3	1294.0	1570.5	1875.4	2027.9	1990.3	1861.2
80°	280.6	275.5	307.0	375.1	430.0	618.0	945.3	1327.5	1756.5	2027.9	1985.2
82.5°	78.3	80.3	103.7	133.2	171.8	218.5	341.5	548.9	894.5	1391.6	1821.6
85°	24.4	24.4	33.5	49.8	59.0	68.1	86.4	142.3	242.9	484.9	982.9
87.5°	5.1	5.1	7.1	14.2	15.2	15.2	19.3	26.4	23.4	21.3	95.6
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1676.2	1674.2	1675.2	1676.2	1675.2	1675.2	1674.2	1673.1	1674.2	1674.2	1677.2
5°	1675.2	1674.2	1675.2	1675.2	1675.2	1676.2	1676.2	1676.2	1679.2	1679.2	1684.3
7.5°	1677.2	1677.2	1679.2	1679.2	1679.2	1679.2	1680.3	1682.3	1687.4	1686.4	1695.5
10°	1681.3	1683.3	1688.4	1689.4	1689.4	1692.5	1694.5	1698.6	1703.6	1705.7	1713.8
12.5°	1686.4	1696.5	1705.7	1707.7	1710.8	1715.8	1718.9	1720.9	1730.1	1733.1	1743.3
15°	1692.5	1706.7	1717.9	1721.9	1726.0	1732.1	1736.2	1739.2	1747.3	1751.4	1763.6
17.5°	1693.5	1709.7	1723.0	1729.1	1734.1	1741.2	1747.3	1753.4	1762.6	1768.7	1780.9
20°	1692.5	1713.8	1734.1	1742.3	1747.3	1760.6	1769.7	1777.8	1789.0	1795.1	1807.3
22.5°	1703.6	1728.0	1755.5	1765.6	1773.8	1792.1	1804.3	1817.5	1831.7	1835.8	1844.9
25°	1730.1	1755.5	1790.0	1804.3	1818.5	1842.9	1860.2	1879.5	1893.7	1895.8	1898.8
27.5°	1774.8	1798.2	1839.8	1861.2	1884.6	1919.1	1944.5	1963.9	1984.2	1984.2	1982.2
30°	1865.3	1870.3	1914.1	1941.5	1976.1	2026.9	2064.5	2085.8	2101.1	2101.1	2083.8
32.5°	1982.2	1976.1	2015.7	2045.2	2093.0	2164.1	2214.9	2231.2	2247.5	2242.4	2212.9
35°	2150.9	2133.6	2156.0	2200.7	2254.6	2352.2	2405.0	2441.6	2451.8	2437.5	2390.8
37.5°	2363.3	2361.3	2372.5	2422.3	2482.3	2608.3	2662.2	2685.6	2677.4	2652.0	2569.7
40°	2588.0	2581.9	2574.8	2608.3	2675.4	2826.9	2922.4	2934.6	2923.4	2885.8	2782.1
42.5°	2887.9	2887.9	2854.3	2863.5	2919.4	3089.1	3201.9	3240.6	3241.6	3186.7	3048.5
45°	3300.5	3296.5	3237.5	3223.3	3266.0	3432.7	3578.0	3599.4	3599.4	3527.2	3375.8
47.5°	3796.6	3791.5	3733.6	3683.8	3691.9	3871.8	3992.8	4025.3	3996.8	3943.0	3763.0
50°	4355.7	4346.5	4287.6	4240.8	4220.5	4402.4	4505.1	4520.3	4478.7	4414.6	4219.5
52.5°	4922.9	4950.3	4915.7	4890.3	4897.5	5015.4	5121.1	5048.9	5027.6	4958.4	4762.3
55°	5513.4	5597.8	5674.1	5651.7	5678.1	5793.0	5813.3	5717.8	5679.1	5629.3	5410.8
57.5°	6108.1	6354.1	6604.1	6674.3	6739.3	6904.0	6880.6	6724.1	6753.6	6827.8	6581.8
60°	6938.6	7649.1	8283.4	8400.3	8602.6	8742.8	8774.3	8743.9	8881.1	8842.5	8624.9
62.5°	8214.3	9398.5	10280.8	10500.3	10703.6	10696.5	10589.8	10480.0	10615.2	10615.2	10047.0
65°	9125.0	10468.8	11413.2	11595.1	11587.0	11342.0	11089.9	10870.4	10851.0	10700.6	9870.1
66°	9167.7	10551.2	11476.2	11634.8	11573.8	11179.4	10877.5	10598.9	10480.0	10270.6	9419.8
67.5°	8783.5	10318.4	11270.8	11409.1	11248.5	10683.3	10267.6	9894.5	9721.7	9369.0	8568.0
70°	7204.9	8867.9	10253.3	10535.9	10354.0	9638.4	9069.1	8565.0	8234.6	7725.3	7148.0
72.5°	5259.3	6547.2	8047.6	8507.0	8478.5	7819.9	7361.4	6899.9	6465.9	6002.4	5580.5
75°	3418.5	4259.1	5095.7	5364.0	5234.9	4853.7	4525.4	4256.0	3844.4	3522.1	3443.9
77.5°	1951.7	2384.7	2255.6	2222.0	2060.4	1663.0	1105.9	775.6	700.4	874.2	958.6
80°	1857.1	1683.3	1378.4	1243.2	1142.5	778.6	408.6	287.7	252.1	258.2	277.5
82.5°	2094.0	2182.4	1785.0	1491.2	1298.1	947.4	517.4	240.9	175.9	208.4	233.8
85°	1569.5	2209.9	2190.5	1856.1	1522.7	1091.7	611.9	184.0	105.7	146.4	191.1
87.5°	318.2	523.5	504.2	443.2	377.1	263.3	102.7	57.9	52.9	72.2	109.8
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1679.2	1679.2	1681.3	1684.3	1685.3	1685.3	1687.4	1685.3	1689.4	1690.4	1691.4
5°	1688.4	1691.4	1693.5	1698.6	1701.6	1703.6	1706.7	1704.7	1708.7	1709.7	1711.8
7.5°	1698.6	1703.6	1707.7	1709.7	1713.8	1713.8	1714.8	1712.8	1711.8	1708.7	1707.7
10°	1716.9	1719.9	1725.0	1723.0	1720.9	1713.8	1707.7	1698.6	1693.5	1684.3	1679.2
12.5°	1746.3	1748.4	1748.4	1739.2	1726.0	1709.7	1694.5	1679.2	1667.0	1656.9	1650.8
15°	1766.7	1770.7	1765.6	1752.4	1733.1	1710.8	1690.4	1670.1	1653.8	1640.6	1632.5
17.5°	1781.9	1780.9	1771.7	1753.4	1735.1	1715.8	1697.5	1676.2	1655.9	1636.6	1624.4
20°	1805.3	1795.1	1778.9	1759.5	1740.2	1724.0	1709.7	1689.4	1668.1	1641.6	1623.3
22.5°	1836.8	1818.5	1795.1	1774.8	1756.5	1741.2	1725.0	1707.7	1685.3	1655.9	1630.5
25°	1881.5	1850.0	1823.6	1803.3	1787.0	1769.7	1751.4	1729.1	1706.7	1676.2	1645.7
27.5°	1949.6	1902.9	1869.3	1851.0	1835.8	1812.4	1789.0	1762.6	1734.1	1702.6	1668.1
30°	2032.0	1976.1	1937.4	1921.2	1902.9	1876.4	1851.0	1814.4	1774.8	1737.2	1694.5
32.5°	2128.5	2071.6	2033.0	2020.8	1991.3	1960.8	1925.2	1876.4	1824.6	1768.7	1717.9
35°	2274.9	2202.7	2167.2	2138.7	2098.0	2061.4	2001.5	1937.4	1863.2	1789.0	1726.0
37.5°	2425.3	2352.2	2315.6	2275.9	2223.1	2156.0	2075.7	1984.2	1885.6	1794.1	1716.9
40°	2626.6	2547.3	2500.6	2439.6	2354.2	2249.5	2130.6	2005.5	1885.6	1771.7	1678.2
42.5°	2861.4	2788.2	2716.1	2615.4	2478.2	2325.7	2159.0	1998.4	1853.1	1721.9	1623.3
45°	3186.7	3061.7	2946.8	2785.2	2584.9	2370.5	2162.1	1964.9	1797.2	1651.8	1542.0
47.5°	3552.6	3391.0	3187.7	2934.6	2661.2	2387.7	2132.6	1901.9	1708.7	1551.2	1431.2
50°	3974.5	3726.5	3414.4	3053.5	2699.8	2364.4	2062.5	1796.1	1586.7	1405.8	1277.7
52.5°	4457.3	4079.2	3619.7	3137.9	2693.7	2293.2	1946.6	1656.9	1423.1	1231.0	1104.9
55°	4993.0	4463.4	3815.9	3191.8	2638.8	2155.0	1764.6	1460.7	1219.8	1030.7	919.9
57.5°	5937.3	5137.3	4190.0	3264.0	2523.9	1945.6	1533.9	1212.7	995.1	834.5	728.8
60°	7691.8	6315.5	4898.5	3433.7	2351.1	1683.3	1243.2	951.4	769.5	652.6	574.3
62.5°	8777.4	7144.9	5244.1	3409.3	2070.6	1324.5	923.0	705.4	562.1	484.9	436.1
65°	8520.2	6819.6	4822.2	2928.5	1611.1	939.2	610.9	461.5	386.3	346.6	323.2
66°	8170.6	6455.7	4465.4	2622.5	1403.8	784.7	504.2	387.3	332.4	302.9	290.7
67.5°	7437.7	5790.9	3851.5	2100.1	1052.1	584.5	372.0	303.9	270.4	255.1	247.0
70°	6225.0	4665.7	2724.2	1240.1	570.3	317.1	237.9	211.4	203.3	198.2	195.2
72.5°	4813.1	3377.8	1591.8	609.9	287.7	205.3	180.9	169.8	166.7	166.7	167.7
75°	3032.2	1941.5	712.6	293.8	195.2	165.7	154.5	149.4	150.4	151.5	150.4
77.5°	1007.3	669.9	296.8	208.4	169.8	150.4	141.3	139.3	141.3	142.3	142.3
80°	289.7	253.1	214.5	184.0	155.5	140.3	132.1	131.1	136.2	137.2	135.2
82.5°	222.6	208.4	194.1	177.9	149.4	132.1	129.1	130.1	133.2	131.1	122.0
85°	204.3	202.3	145.4	144.3	130.1	126.0	123.0	124.0	121.0	109.8	99.6
87.5°	114.9	106.7	82.3	83.4	96.6	99.6	82.3	87.4	81.3	71.2	65.1
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):

	160°	165°	170°	175°	180°
0°	1677.2	1677.2	1677.2	1677.2	1677.2
2.5°	1693.5	1692.5	1692.5	1695.5	1691.4
5°	1712.8	1711.8	1711.8	1714.8	1711.8
7.5°	1703.6	1700.6	1698.6	1697.5	1697.5
10°	1673.1	1670.1	1664.0	1662.0	1659.9
12.5°	1641.6	1638.6	1631.5	1631.5	1629.4
15°	1622.3	1618.3	1613.2	1610.1	1608.1
17.5°	1612.2	1606.1	1600.0	1596.9	1594.9
20°	1608.1	1600.0	1592.8	1587.8	1587.8
22.5°	1609.1	1598.9	1590.8	1584.7	1582.7
25°	1619.3	1604.0	1593.9	1587.8	1585.7
27.5°	1633.5	1615.2	1602.0	1593.9	1590.8
30°	1652.8	1627.4	1609.1	1598.9	1594.9
32.5°	1666.0	1630.5	1607.1	1592.8	1587.8
35°	1665.0	1619.3	1590.8	1572.5	1566.4
37.5°	1646.7	1592.8	1555.2	1532.9	1522.7
40°	1606.1	1544.0	1504.4	1483.1	1470.9
42.5°	1547.1	1480.0	1444.4	1421.1	1407.8
45°	1454.6	1388.5	1344.8	1326.5	1309.2
47.5°	1326.5	1259.4	1221.8	1195.4	1184.2
50°	1176.1	1109.0	1069.3	1048.0	1037.8
52.5°	1011.4	947.4	918.9	898.6	884.3
55°	840.6	781.7	769.5	747.1	733.9
57.5°	680.0	645.5	634.3	611.9	600.7
60°	531.6	520.4	508.2	494.0	487.9
62.5°	411.7	401.5	398.5	389.3	388.3
65°	314.1	315.1	313.1	311.0	309.0
66°	285.6	284.6	285.6	283.6	282.6
67.5°	242.9	247.0	250.1	249.0	249.0
70°	197.2	200.2	204.3	203.3	203.3
72.5°	168.7	173.8	175.9	174.8	174.8
75°	152.5	157.6	157.6	155.5	154.5
77.5°	142.3	144.3	142.3	140.3	138.2
80°	132.1	130.1	127.1	124.0	122.0
82.5°	114.9	109.8	106.7	101.6	101.6
85°	92.5	88.4	81.3	76.2	71.2
87.5°	60.0	57.9	52.9	39.6	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)