

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: P159565

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159565
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (42) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15148.5 lumens
Efficiency: N/A
Efficacy: 96.8 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



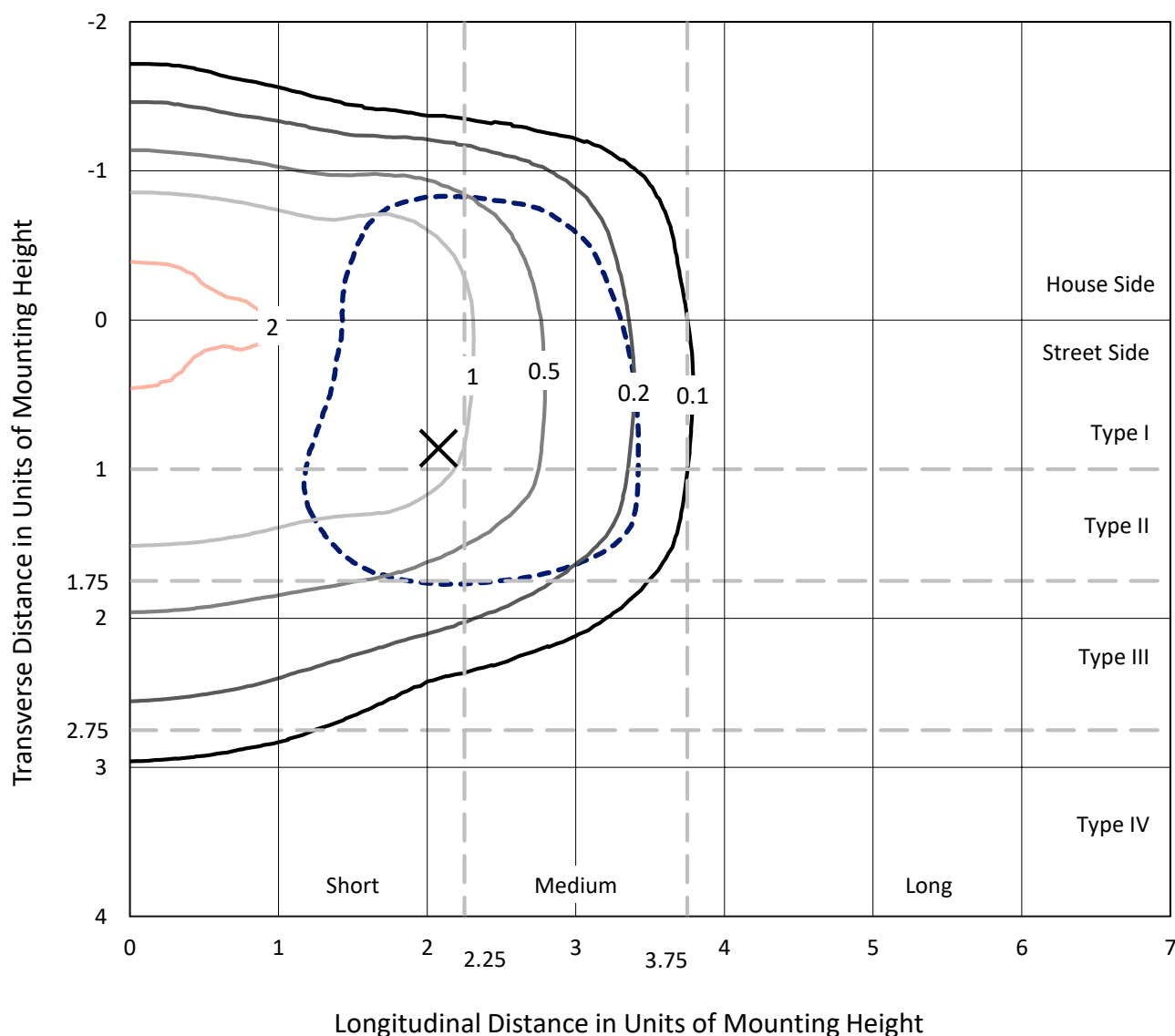
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

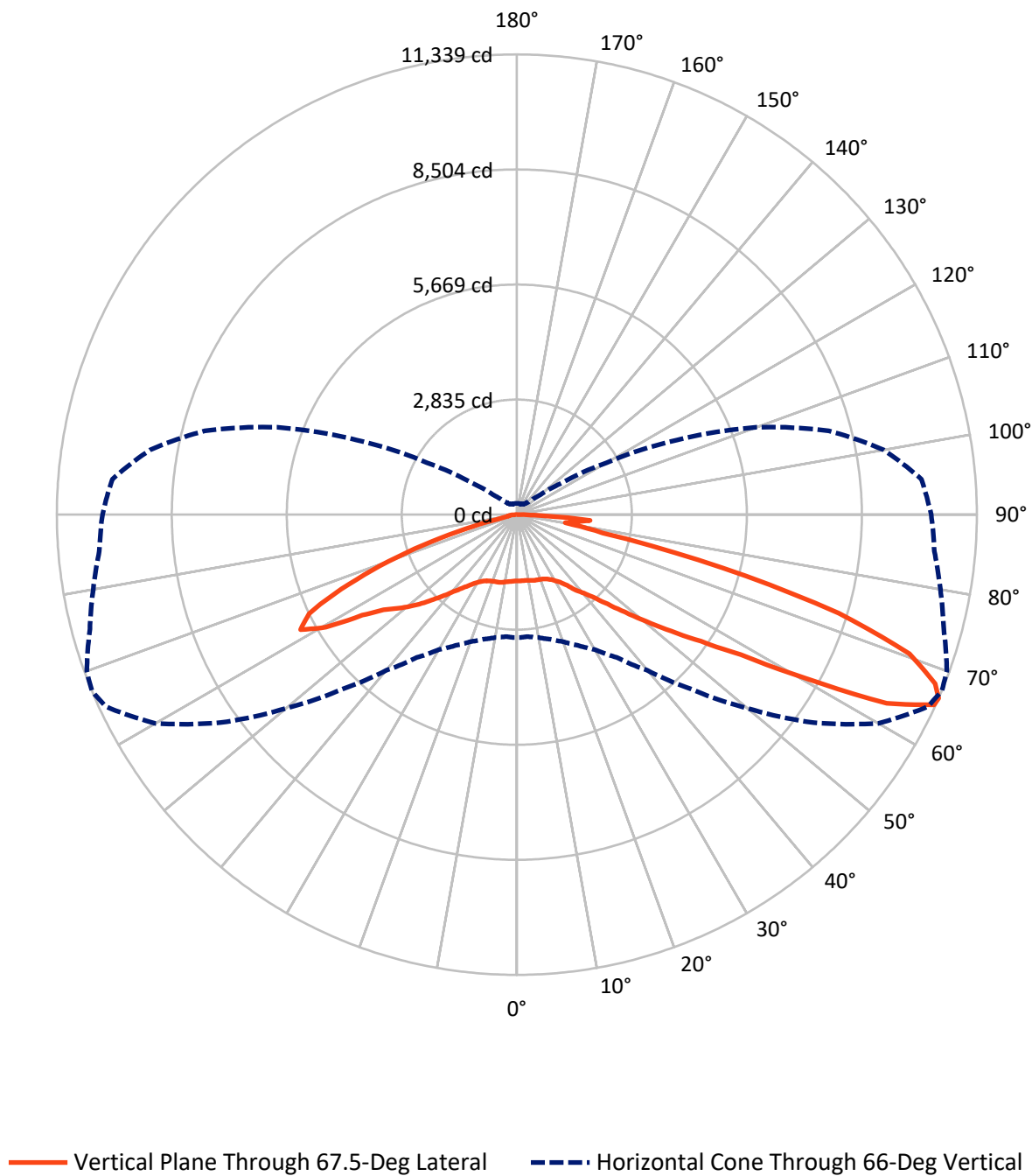


Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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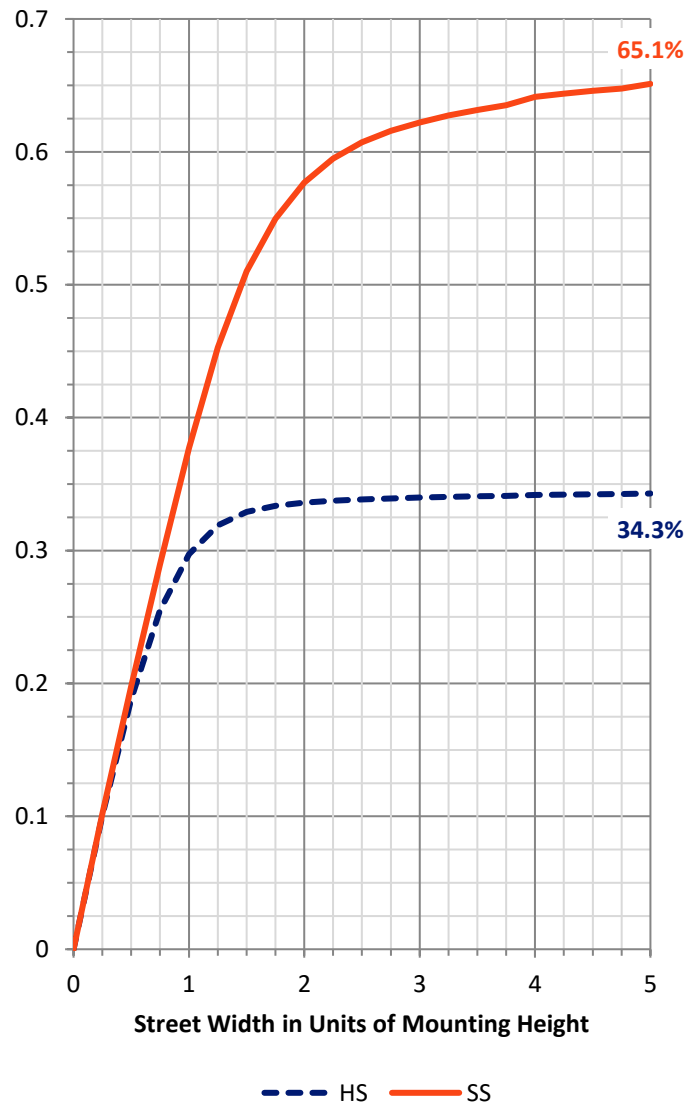
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5242.1	0.0	5242.1
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	9906.5	0.0	9906.5
	% Fixture	65.4	0.0	65.4
Total	Lumens	15148.5	0.0	15148.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.9	1.0
10°-20°	464.5	3.1
20°-30°	798.4	5.3
30°-40°	1290.4	8.5
40°-50°	2138.4	14.1
50°-60°	3356.1	22.2
60°-70°	4588.4	30.3
70°-80°	2017.8	13.3
80°-90°	337.7	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°	15148.5	100.0
0°-180°	15148.5	100.0

Coefficient of Utilization



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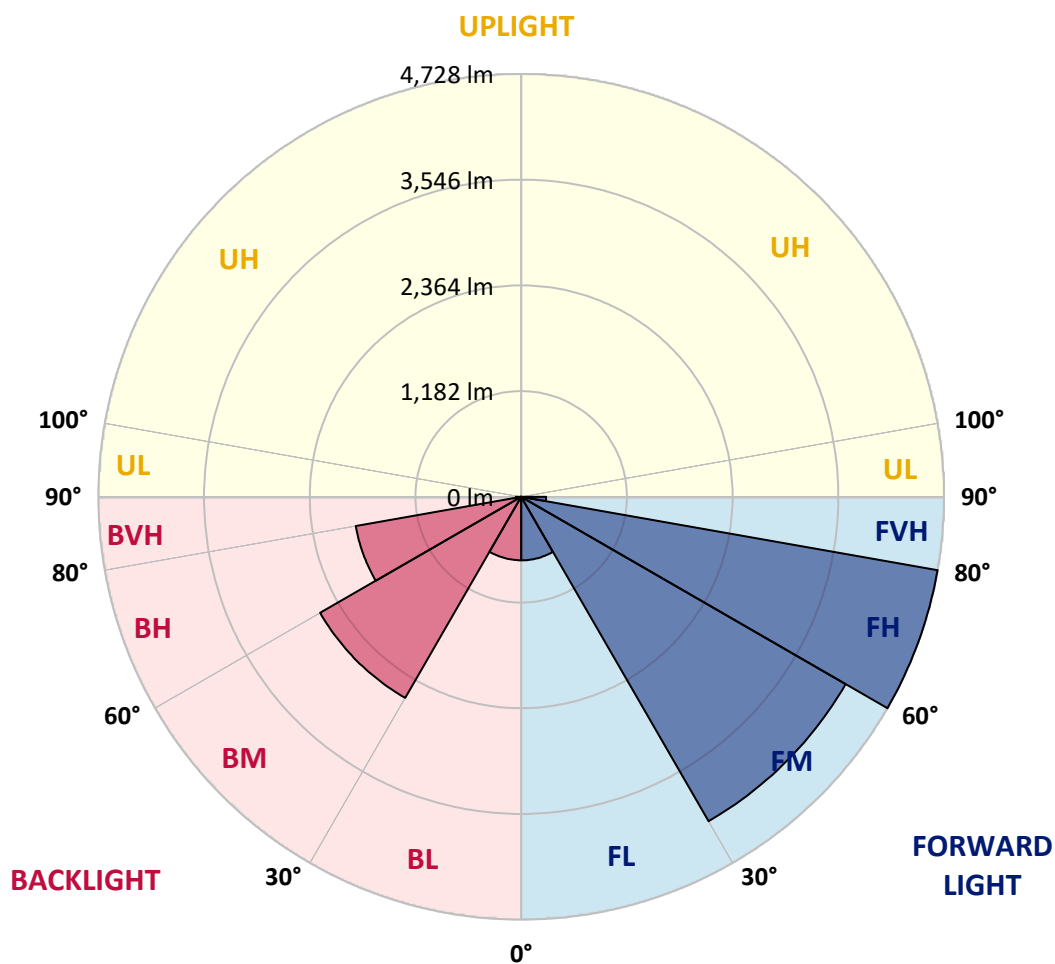
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	710.6	4.7			
FM	(30°-60°)	4189.0	27.7			
FH	(60°-80°)	4728.2	31.2			G2/5000
FVH	(80°-90°)	278.7	1.8			G3/500
BL	(0°-30°)	709.1	4.7	B2/1000		
BM	(30°-60°)	2595.8	17.1	B3/5000		
BH	(60°-80°)	1878.0	12.4	B3/2500		G3/2500
BVH	(80°-90°)	59.1	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°	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5
2.5°	1631.6	1631.6	1632.6	1631.6	1631.6	1630.6	1634.5	1634.5	1634.5	1633.5	1636.5
5°	1627.6	1627.6	1628.6	1628.6	1629.6	1628.6	1631.6	1632.6	1632.6	1632.6	1635.5
7.5°	1617.7	1620.7	1618.7	1619.7	1620.7	1623.6	1627.6	1629.6	1631.6	1634.5	1635.5
10°	1596.9	1601.8	1600.9	1603.8	1604.8	1613.7	1616.7	1620.7	1627.6	1631.6	1634.5
12.5°	1568.2	1571.1	1572.1	1576.1	1580.1	1591.0	1598.9	1605.8	1615.7	1625.6	1635.5
15°	1545.4	1547.4	1547.4	1551.3	1557.3	1567.2	1577.1	1589.0	1603.8	1620.7	1636.5
17.5°	1552.3	1557.3	1553.3	1552.3	1554.3	1560.2	1569.2	1579.1	1596.9	1615.7	1634.5
20°	1597.9	1598.9	1596.9	1591.9	1588.0	1589.0	1589.0	1591.0	1601.8	1616.7	1631.6
22.5°	1635.5	1639.5	1638.5	1639.5	1638.5	1642.5	1640.5	1636.5	1632.6	1633.5	1640.5
25°	1668.2	1672.2	1672.2	1675.2	1680.1	1688.0	1694.0	1693.0	1687.0	1679.1	1676.1
27.5°	1721.7	1721.7	1721.7	1724.7	1731.6	1741.5	1751.4	1757.4	1762.3	1754.4	1737.6
30°	1805.9	1806.9	1803.9	1804.9	1809.9	1822.8	1834.6	1843.6	1853.5	1852.5	1830.7
32.5°	1898.0	1902.0	1901.0	1905.0	1911.9	1923.8	1936.7	1950.6	1963.4	1971.4	1957.5
35°	2016.9	2020.9	2021.9	2027.8	2035.7	2053.6	2071.4	2089.2	2103.1	2109.1	2106.1
37.5°	2212.1	2213.1	2209.1	2200.2	2203.2	2217.0	2237.8	2266.6	2275.5	2281.4	2295.3
40°	2504.3	2501.3	2485.5	2477.6	2472.6	2478.6	2474.6	2497.4	2518.2	2519.2	2518.2
42.5°	2859.0	2850.0	2835.2	2833.2	2831.2	2829.2	2818.3	2819.3	2838.2	2843.1	2837.2
45°	3211.6	3200.7	3189.8	3199.7	3187.8	3218.6	3227.5	3251.2	3254.2	3264.1	3249.3
47.5°	3500.9	3501.9	3501.9	3515.7	3539.5	3598.0	3650.5	3696.0	3712.9	3736.7	3739.6
50°	3719.8	3725.8	3744.6	3789.2	3839.7	3937.8	4025.9	4108.1	4182.4	4210.2	4283.5
52.5°	3847.6	3863.5	3903.1	3977.4	4067.5	4194.3	4333.0	4472.7	4601.5	4710.4	4797.6
55°	3824.8	3836.7	3906.1	4022.0	4162.6	4333.0	4527.2	4729.3	4930.4	5114.6	5257.3
57.5°	3678.2	3686.1	3755.5	3886.2	4061.6	4290.4	4564.8	4865.0	5147.3	5444.5	5688.2
60°	3486.0	3497.9	3562.3	3665.3	3848.6	4092.3	4410.3	4817.4	5268.2	5735.7	6191.4
62.5°	3363.2	3360.2	3416.7	3508.8	3646.5	3867.4	4173.5	4656.0	5280.1	6070.6	6971.1
65°	3159.1	3150.2	3208.7	3313.7	3463.2	3677.2	3967.5	4431.1	5155.2	6197.4	7474.3
66°	3032.3	3014.5	3072.9	3178.9	3328.5	3556.4	3834.7	4292.4	5003.7	6073.6	7420.8
67.5°	2810.4	2801.5	2829.2	2912.5	3023.4	3237.4	3527.6	3988.3	4645.1	5701.1	7028.5
70°	2284.4	2264.6	2286.4	2324.0	2366.6	2419.1	2597.4	2963.0	3518.7	4542.0	5662.4
72.5°	1556.3	1546.4	1587.0	1644.4	1758.4	1811.9	1882.2	1941.6	2137.8	2862.9	3949.6
75°	1183.8	1189.7	1241.3	1336.4	1483.0	1641.5	1796.0	1852.5	1787.1	1730.6	2241.8
77.5°	663.7	698.4	760.8	881.7	1037.2	1261.1	1530.5	1827.7	1976.3	1939.7	1813.8
80°	273.4	268.5	299.2	365.5	419.0	602.3	921.3	1293.8	1711.8	1976.3	1934.7
82.5°	76.3	78.3	101.0	129.8	167.4	213.0	332.9	534.9	871.8	1356.2	1775.2
85°	23.8	23.8	32.7	48.5	57.5	66.4	84.2	138.7	236.8	472.5	957.9
87.5°	5.0	5.0	6.9	13.9	14.9	14.9	18.8	25.8	22.8	20.8	93.1
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5
2.5°	1633.5	1631.6	1632.6	1633.5	1632.6	1632.6	1631.6	1630.6	1631.6	1631.6	1634.5
5°	1632.6	1631.6	1632.6	1632.6	1632.6	1633.5	1633.5	1633.5	1636.5	1636.5	1641.5
7.5°	1634.5	1634.5	1636.5	1636.5	1636.5	1636.5	1637.5	1639.5	1644.4	1643.5	1652.4
10°	1638.5	1640.5	1645.4	1646.4	1646.4	1649.4	1651.4	1655.3	1660.3	1662.3	1670.2
12.5°	1643.5	1653.4	1662.3	1664.3	1667.2	1672.2	1675.2	1677.1	1686.1	1689.0	1698.9
15°	1649.4	1663.3	1674.2	1678.1	1682.1	1688.0	1692.0	1695.0	1702.9	1706.9	1718.7
17.5°	1650.4	1666.2	1679.1	1685.1	1690.0	1696.9	1702.9	1708.8	1717.8	1723.7	1735.6
20°	1649.4	1670.2	1690.0	1697.9	1702.9	1715.8	1724.7	1732.6	1743.5	1749.5	1761.3
22.5°	1660.3	1684.1	1710.8	1720.7	1728.6	1746.5	1758.4	1771.2	1785.1	1789.1	1798.0
25°	1686.1	1710.8	1744.5	1758.4	1772.2	1796.0	1812.9	1831.7	1845.5	1847.5	1850.5
27.5°	1729.6	1752.4	1793.0	1813.8	1836.6	1870.3	1895.1	1913.9	1933.7	1933.7	1931.7
30°	1817.8	1822.8	1865.4	1892.1	1925.8	1975.3	2012.0	2032.8	2047.6	2047.6	2030.8
32.5°	1931.7	1925.8	1964.4	1993.1	2039.7	2109.1	2158.6	2174.4	2190.3	2185.3	2156.6
35°	2096.2	2079.3	2101.1	2144.7	2197.2	2292.3	2343.8	2379.5	2389.4	2375.5	2330.0
37.5°	2303.2	2301.2	2312.1	2360.7	2419.1	2542.0	2594.5	2617.2	2609.3	2584.6	2504.3
40°	2522.1	2516.2	2509.3	2542.0	2607.3	2754.9	2848.1	2859.9	2849.1	2812.4	2711.4
42.5°	2814.4	2814.4	2781.7	2790.6	2845.1	3010.5	3120.5	3158.1	3159.1	3105.6	2970.9
45°	3216.6	3212.6	3155.2	3141.3	3182.9	3345.4	3487.0	3507.8	3507.8	3437.5	3289.9
47.5°	3700.0	3695.0	3638.6	3590.0	3598.0	3773.3	3891.2	3922.9	3895.2	3842.7	3667.3
50°	4244.8	4235.9	4178.5	4132.9	4113.1	4290.4	4390.5	4405.3	4364.7	4302.3	4112.1
52.5°	4797.6	4824.4	4790.7	4765.9	4772.9	4887.8	4990.8	4920.5	4899.7	4832.3	4641.1
55°	5373.2	5455.4	5529.7	5507.9	5533.7	5645.6	5665.4	5572.3	5534.6	5486.1	5273.1
57.5°	5952.7	6192.4	6436.1	6504.5	6567.9	6728.4	6705.6	6553.0	6581.7	6654.1	6414.3
60°	6762.0	7454.5	8072.6	8186.6	8383.7	8520.4	8551.1	8521.4	8655.1	8617.5	8405.5
62.5°	8005.3	9159.4	10019.2	10233.2	10431.3	10424.4	10320.4	10213.4	10345.1	10345.1	9791.4
65°	8892.9	10202.5	11122.8	11300.1	11292.2	11053.4	10807.8	10593.8	10575.0	10428.4	9619.0
66°	8934.5	10282.7	11184.2	11338.7	11279.3	10894.9	10600.7	10329.3	10213.4	10009.3	9180.2
67.5°	8560.0	10055.9	10984.1	11118.8	10962.3	10411.5	10006.4	9642.8	9474.4	9130.6	8350.0
70°	7021.6	8642.3	9992.5	10267.9	10090.6	9393.2	8838.4	8347.0	8025.1	7528.8	6966.1
72.5°	5125.5	6380.6	7842.8	8290.6	8262.8	7620.9	7174.1	6724.4	6301.4	5849.7	5438.6
75°	3331.5	4150.7	4966.0	5227.6	5101.7	4730.3	4410.3	4147.8	3746.6	3432.5	3356.3
77.5°	1902.0	2324.0	2198.2	2165.5	2008.0	1620.7	1077.8	755.9	682.5	851.9	934.2
80°	1809.9	1640.5	1343.3	1211.5	1113.5	758.8	398.2	280.3	245.7	251.6	270.4
82.5°	2040.7	2126.9	1739.5	1453.3	1265.0	923.3	504.2	234.8	171.4	203.1	227.8
85°	1529.5	2153.6	2134.8	1808.9	1484.0	1063.9	596.4	179.3	103.0	142.7	186.2
87.5°	310.1	510.2	491.4	431.9	367.5	256.6	100.1	56.5	51.5	70.3	107.0
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°	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5	1634.5
2.5°	1636.5	1636.5	1638.5	1641.5	1642.5	1642.5	1644.4	1642.5	1646.4	1647.4	1648.4
5°	1645.4	1648.4	1650.4	1655.3	1658.3	1660.3	1663.3	1661.3	1665.2	1666.2	1668.2
7.5°	1655.3	1660.3	1664.3	1666.2	1670.2	1670.2	1671.2	1669.2	1668.2	1665.2	1664.3
10°	1673.2	1676.1	1681.1	1679.1	1677.1	1670.2	1664.3	1655.3	1650.4	1641.5	1636.5
12.5°	1701.9	1703.9	1703.9	1695.0	1682.1	1666.2	1651.4	1636.5	1624.6	1614.7	1608.8
15°	1721.7	1725.7	1720.7	1707.8	1689.0	1667.2	1647.4	1627.6	1611.8	1598.9	1591.0
17.5°	1736.6	1735.6	1726.7	1708.8	1691.0	1672.2	1654.4	1633.5	1613.7	1594.9	1583.0
20°	1759.4	1749.5	1733.6	1714.8	1696.0	1680.1	1666.2	1646.4	1625.6	1599.9	1582.0
22.5°	1790.1	1772.2	1749.5	1729.6	1711.8	1696.9	1681.1	1664.3	1642.5	1613.7	1589.0
25°	1833.7	1802.9	1777.2	1757.4	1741.5	1724.7	1706.9	1685.1	1663.3	1633.5	1603.8
27.5°	1900.0	1854.5	1821.8	1803.9	1789.1	1766.3	1743.5	1717.8	1690.0	1659.3	1625.6
30°	1980.3	1925.8	1888.1	1872.3	1854.5	1828.7	1803.9	1768.3	1729.6	1693.0	1651.4
32.5°	2074.4	2018.9	1981.3	1969.4	1940.6	1910.9	1876.3	1828.7	1778.2	1723.7	1674.2
35°	2217.0	2146.7	2112.0	2084.3	2044.7	2009.0	1950.6	1888.1	1815.8	1743.5	1682.1
37.5°	2363.6	2292.3	2256.7	2218.0	2166.5	2101.1	2022.9	1933.7	1837.6	1748.5	1673.2
40°	2559.8	2482.5	2436.9	2377.5	2294.3	2192.3	2076.4	1954.5	1837.6	1726.7	1635.5
42.5°	2788.6	2717.3	2647.0	2548.9	2415.2	2266.6	2104.1	1947.6	1805.9	1678.1	1582.0
45°	3105.6	2983.8	2871.8	2714.3	2519.2	2310.1	2107.1	1914.9	1751.4	1609.8	1502.8
47.5°	3462.3	3304.7	3106.6	2859.9	2593.5	2327.0	2078.3	1853.5	1665.2	1511.7	1394.8
50°	3873.4	3631.6	3327.5	2975.9	2631.1	2304.2	2010.0	1750.4	1546.4	1370.0	1245.2
52.5°	4343.9	3975.4	3527.6	3058.1	2625.2	2234.9	1897.1	1614.7	1386.9	1199.7	1076.8
55°	4866.0	4349.9	3718.8	3110.6	2571.7	2100.1	1719.7	1423.5	1188.8	1004.5	896.5
57.5°	5786.3	5006.6	4083.4	3180.9	2459.7	1896.1	1494.9	1181.8	969.8	813.3	710.3
60°	7496.1	6154.8	4773.8	3346.3	2291.3	1640.5	1211.5	927.2	749.9	636.0	559.7
62.5°	8554.1	6963.1	5110.7	3322.6	2017.9	1290.8	899.5	687.5	547.8	472.5	425.0
65°	8303.5	6646.1	4699.5	2854.0	1570.1	915.3	595.4	449.7	376.4	337.8	315.0
66°	7962.7	6291.5	4351.8	2555.8	1368.1	764.8	491.4	377.4	323.9	295.2	283.3
67.5°	7248.4	5643.6	3753.5	2046.6	1025.3	569.6	362.6	296.2	263.5	248.6	240.7
70°	6066.6	4547.0	2654.9	1208.6	555.7	309.1	231.8	206.1	198.1	193.2	190.2
72.5°	4690.6	3291.9	1551.3	594.4	280.3	200.1	176.3	165.4	162.5	162.5	163.5
75°	2955.0	1892.1	694.4	286.3	190.2	161.5	150.6	145.6	146.6	147.6	146.6
77.5°	981.7	652.8	289.3	203.1	165.4	146.6	137.7	135.7	137.7	138.7	138.7
80°	282.3	246.7	209.0	179.3	151.6	136.7	128.8	127.8	132.7	133.7	131.8
82.5°	216.9	203.1	189.2	173.4	145.6	128.8	125.8	126.8	129.8	127.8	118.9
85°	199.1	197.1	141.7	140.7	126.8	122.8	119.9	120.9	117.9	107.0	97.1
87.5°	111.9	104.0	80.2	81.2	94.1	97.1	80.2	85.2	79.3	69.3	63.4
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°	1634.5	1634.5	1634.5	1634.5	1634.5
2.5°	1650.4	1649.4	1649.4	1652.4	1648.4
5°	1669.2	1668.2	1668.2	1671.2	1668.2
7.5°	1660.3	1657.3	1655.3	1654.4	1654.4
10°	1630.6	1627.6	1621.7	1619.7	1617.7
12.5°	1599.9	1596.9	1590.0	1590.0	1588.0
15°	1581.0	1577.1	1572.1	1569.2	1567.2
17.5°	1571.1	1565.2	1559.3	1556.3	1554.3
20°	1567.2	1559.3	1552.3	1547.4	1547.4
22.5°	1568.2	1558.3	1550.3	1544.4	1542.4
25°	1578.1	1563.2	1553.3	1547.4	1545.4
27.5°	1591.9	1574.1	1561.2	1553.3	1550.3
30°	1610.8	1586.0	1568.2	1558.3	1554.3
32.5°	1623.6	1589.0	1566.2	1552.3	1547.4
35°	1622.7	1578.1	1550.3	1532.5	1526.6
37.5°	1604.8	1552.3	1515.7	1493.9	1484.0
40°	1565.2	1504.8	1466.1	1445.3	1433.4
42.5°	1507.7	1442.4	1407.7	1384.9	1372.0
45°	1417.6	1353.2	1310.6	1292.8	1275.9
47.5°	1292.8	1227.4	1190.7	1165.0	1154.1
50°	1146.2	1080.8	1042.1	1021.3	1011.4
52.5°	985.7	923.3	895.5	875.7	861.8
55°	819.3	761.8	749.9	728.1	715.2
57.5°	662.7	629.0	618.2	596.4	585.5
60°	518.1	507.2	495.3	481.4	475.5
62.5°	401.2	391.3	388.3	379.4	378.4
65°	306.1	307.1	305.1	303.1	301.2
66°	278.4	277.4	278.4	276.4	275.4
67.5°	236.8	240.7	243.7	242.7	242.7
70°	192.2	195.2	199.1	198.1	198.1
72.5°	164.4	169.4	171.4	170.4	170.4
75°	148.6	153.5	153.5	151.6	150.6
77.5°	138.7	140.7	138.7	136.7	134.7
80°	128.8	126.8	123.8	120.9	118.9
82.5°	111.9	107.0	104.0	99.1	99.1
85°	90.1	86.2	79.3	74.3	69.3
87.5°	58.4	56.5	51.5	38.6	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)