

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: P159573

Luminaire Tested: **VST-F07-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159573
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-F07-LED-E-U-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14916.1 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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

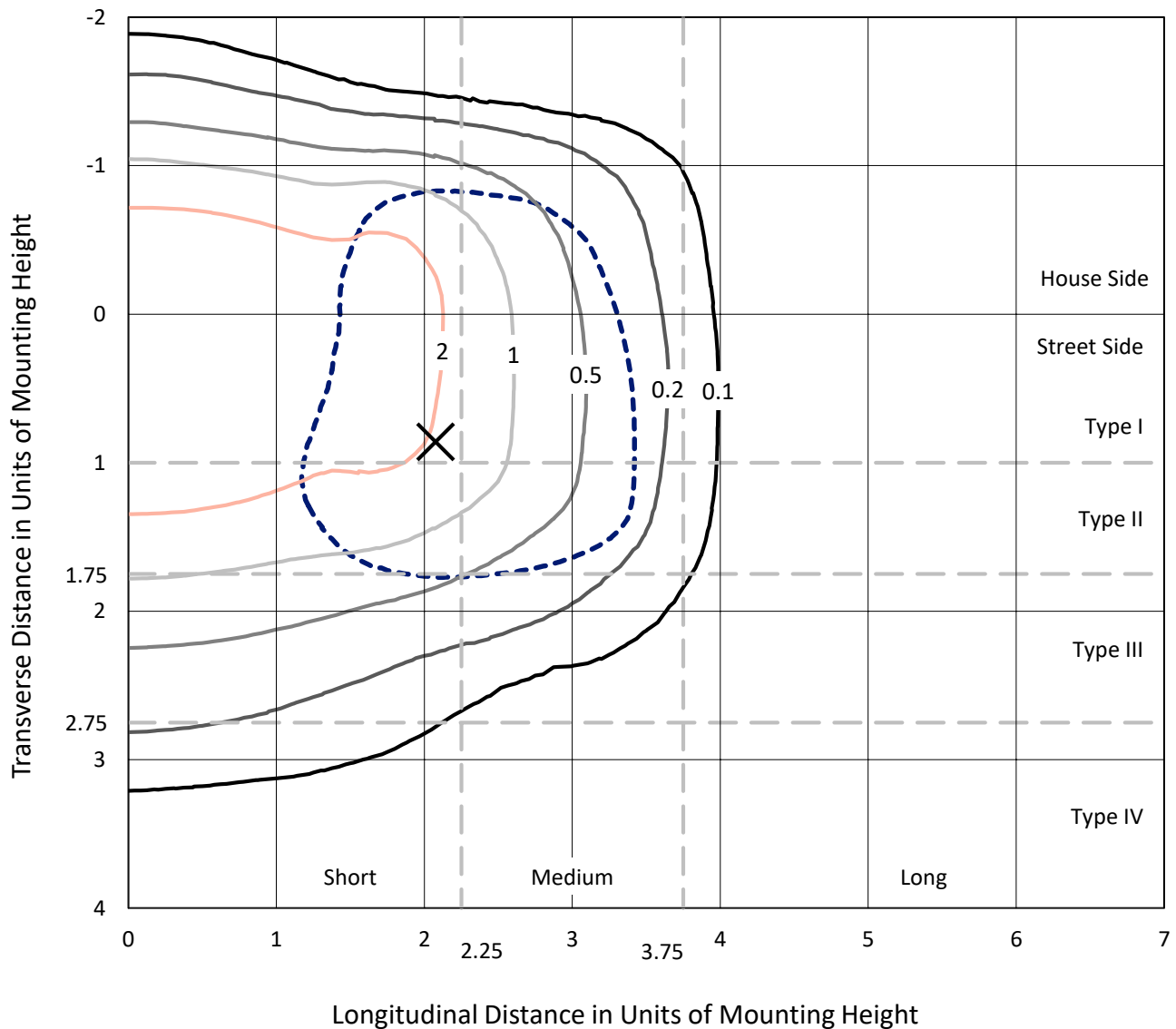


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

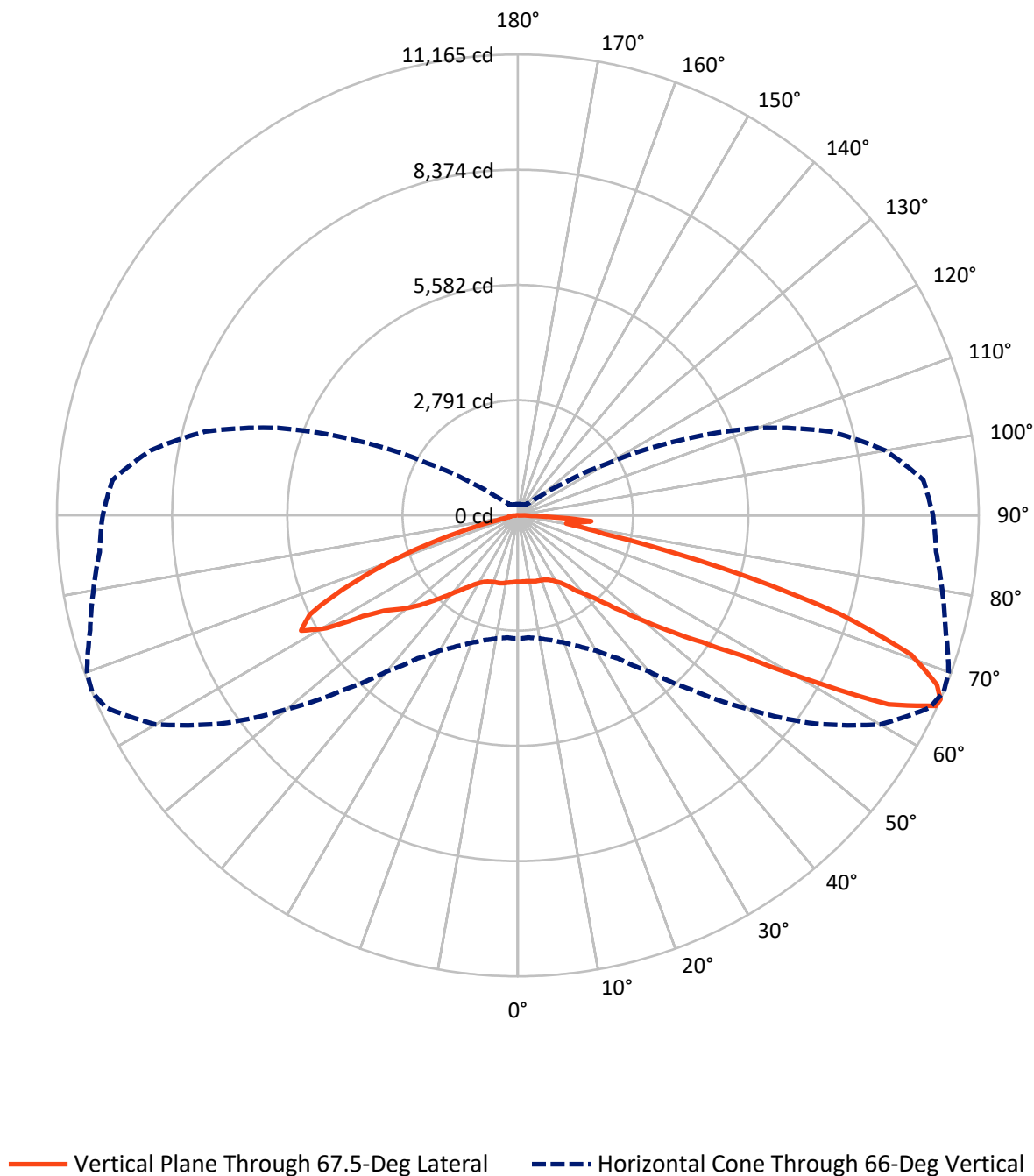


Based on 20 foot mounting height. Maximum calculated value = 4 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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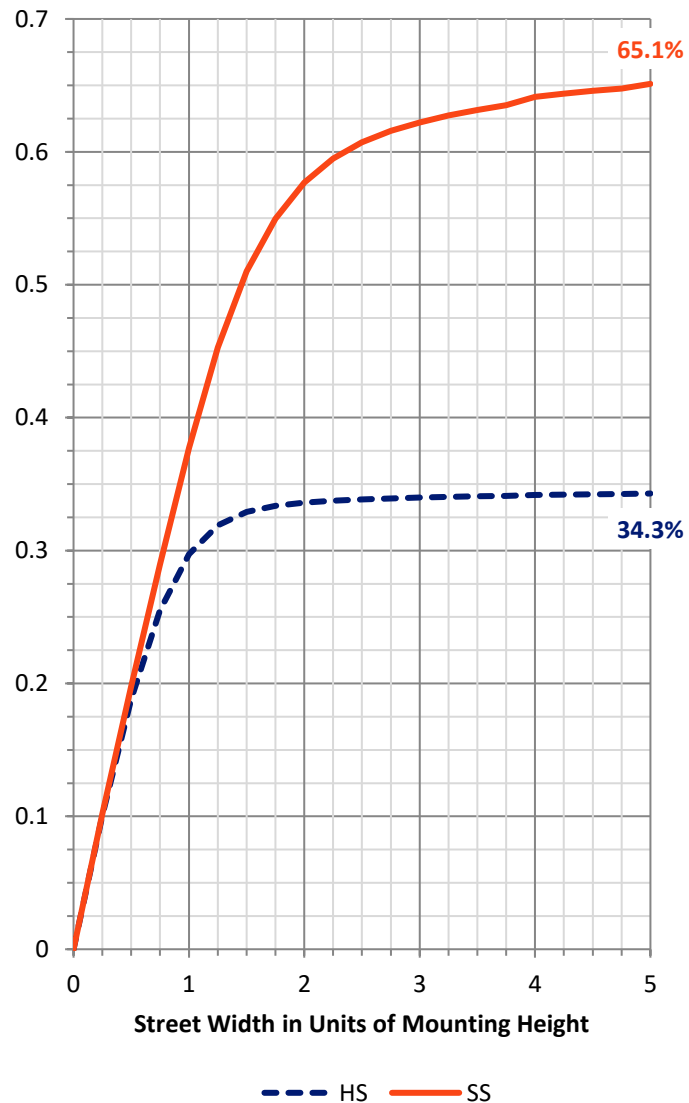
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5161.6	0.0	5161.6
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	9754.5	0.0	9754.5
	% Fixture	65.4	0.0	65.4
Total	Lumens	14916.1	0.0	14916.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.5	1.0
10°-20°	457.3	3.1
20°-30°	786.2	5.3
30°-40°	1270.6	8.5
40°-50°	2105.6	14.1
50°-60°	3304.6	22.2
60°-70°	4518.0	30.3
70°-80°	1986.8	13.3
80°-90°	332.6	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°	14916.1	100.0
0°-180°	14916.1	100.0

Coefficient of Utilization



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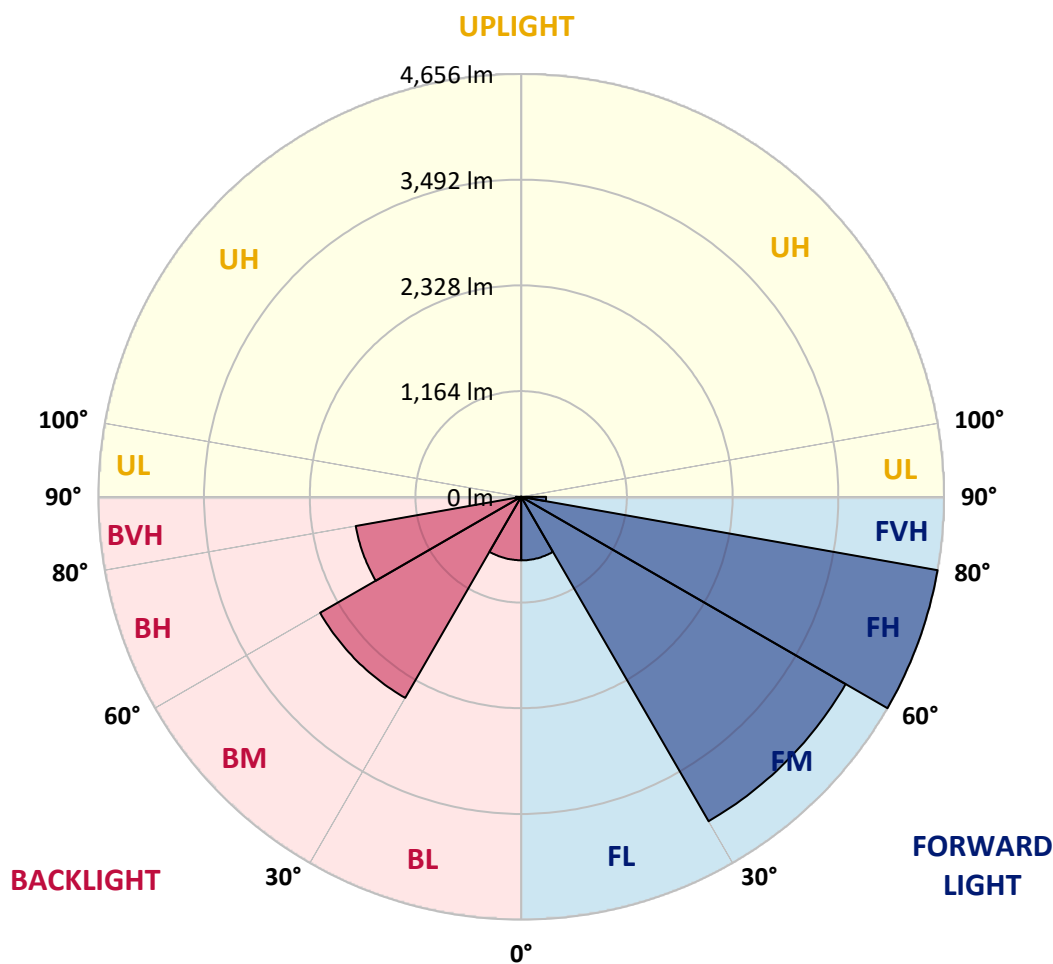
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.7	4.7			
FM	(30°-60°)	4124.7	27.7			
FH	(60°-80°)	4655.6	31.2			G2/5000
FVH	(80°-90°)	274.4	1.8			G3/500
BL	(0°-30°)	698.2	4.7	B2/1000		
BM	(30°-60°)	2556.0	17.1	B3/5000		
BH	(60°-80°)	1849.2	12.4	B3/2500		G3/2500
BVH	(80°-90°)	58.2	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1606.5	1606.5	1607.5	1606.5	1606.5	1605.6	1609.5	1609.5	1609.5	1608.5	1611.4
5°	1602.6	1602.6	1603.6	1603.6	1604.6	1603.6	1606.5	1607.5	1607.5	1607.5	1610.4
7.5°	1592.9	1595.8	1593.9	1594.8	1595.8	1598.7	1602.6	1604.6	1606.5	1609.5	1610.4
10°	1572.4	1577.3	1576.3	1579.2	1580.2	1589.0	1591.9	1595.8	1602.6	1606.5	1609.5
12.5°	1544.1	1547.0	1548.0	1551.9	1555.8	1566.5	1574.3	1581.2	1590.9	1600.7	1610.4
15°	1521.7	1523.6	1523.6	1527.5	1533.4	1543.1	1552.9	1564.6	1579.2	1595.8	1611.4
17.5°	1528.5	1533.4	1529.5	1528.5	1530.4	1536.3	1545.1	1554.8	1572.4	1590.9	1609.5
20°	1573.4	1574.3	1572.4	1567.5	1563.6	1564.6	1564.6	1566.5	1577.3	1591.9	1606.5
22.5°	1610.4	1614.3	1613.4	1614.3	1613.4	1617.3	1615.3	1611.4	1607.5	1608.5	1615.3
25°	1642.6	1646.5	1646.5	1649.5	1654.3	1662.1	1668.0	1667.0	1661.2	1653.4	1650.4
27.5°	1695.3	1695.3	1695.3	1698.2	1705.1	1714.8	1724.6	1730.4	1735.3	1727.5	1710.9
30°	1778.2	1779.2	1776.3	1777.2	1782.1	1794.8	1806.5	1815.3	1825.0	1824.1	1802.6
32.5°	1868.9	1872.8	1871.8	1875.8	1882.6	1894.3	1907.0	1920.6	1933.3	1941.1	1927.4
35°	1986.0	1989.9	1990.9	1996.7	2004.5	2022.1	2039.6	2057.2	2070.8	2076.7	2073.8
37.5°	2178.1	2179.1	2175.2	2166.4	2169.4	2183.0	2203.5	2231.8	2240.6	2246.4	2260.1
40°	2465.9	2463.0	2447.4	2439.5	2434.7	2440.5	2436.6	2459.1	2479.5	2480.5	2479.5
42.5°	2815.1	2806.3	2791.7	2789.7	2787.8	2785.8	2775.1	2776.1	2794.6	2799.5	2793.6
45°	3162.3	3151.6	3140.9	3150.6	3138.9	3169.2	3178.0	3201.4	3204.3	3214.0	3199.4
47.5°	3447.2	3448.1	3448.1	3461.8	3485.2	3542.8	3594.5	3639.3	3655.9	3679.3	3682.2
50°	3662.7	3668.6	3687.1	3731.0	3780.8	3877.3	3964.1	4045.1	4118.3	4145.6	4217.8
52.5°	3788.6	3804.2	3843.2	3916.4	4005.1	4130.0	4266.5	4404.1	4530.9	4638.2	4724.0
55°	3766.1	3777.8	3846.1	3960.2	4098.8	4266.5	4457.7	4656.7	4854.7	5036.1	5176.6
57.5°	3621.8	3629.6	3697.9	3826.6	3999.3	4224.6	4494.8	4790.3	5068.3	5361.0	5600.9
60°	3432.5	3444.2	3507.6	3609.1	3789.5	4029.5	4342.6	4743.5	5187.3	5647.7	6096.4
62.5°	3311.6	3308.7	3364.3	3455.0	3590.6	3808.1	4109.5	4584.5	5199.0	5977.4	6864.1
65°	3110.6	3101.9	3159.4	3262.8	3410.1	3620.8	3906.6	4363.1	5076.1	6102.3	7359.6
66°	2985.8	2968.2	3025.8	3130.2	3277.4	3501.8	3775.9	4226.5	4926.9	5980.4	7306.9
67.5°	2767.3	2758.5	2785.8	2867.8	2977.0	3187.7	3473.5	3927.1	4573.8	5613.6	6920.7
70°	2249.3	2229.8	2251.3	2288.4	2330.3	2382.0	2557.6	2917.5	3464.7	4472.3	5575.6
72.5°	1532.4	1522.6	1562.6	1619.2	1731.4	1784.1	1853.3	1911.8	2105.0	2819.0	3889.0
75°	1165.6	1171.5	1222.2	1315.9	1460.2	1616.3	1768.5	1824.1	1759.7	1704.1	2207.4
77.5°	653.5	687.7	749.1	868.1	1021.3	1241.7	1507.0	1799.7	1946.0	1909.9	1786.0
80°	269.2	264.3	294.6	359.9	412.6	593.1	907.1	1273.9	1685.5	1946.0	1905.0
82.5°	75.1	77.1	99.5	127.8	164.8	209.7	327.7	526.7	858.4	1335.4	1748.0
85°	23.4	23.4	32.2	47.8	56.6	65.4	82.9	136.6	233.1	465.3	943.2
87.5°	4.9	4.9	6.8	13.7	14.6	14.6	18.5	25.4	22.4	20.5	91.7
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1608.5	1606.5	1607.5	1608.5	1607.5	1607.5	1606.5	1605.6	1606.5	1606.5	1609.5
5°	1607.5	1606.5	1607.5	1607.5	1607.5	1608.5	1608.5	1608.5	1611.4	1611.4	1616.3
7.5°	1609.5	1609.5	1611.4	1611.4	1611.4	1611.4	1612.4	1614.3	1619.2	1618.2	1627.0
10°	1613.4	1615.3	1620.2	1621.2	1621.2	1624.1	1626.0	1629.9	1634.8	1636.8	1644.6
12.5°	1618.2	1628.0	1636.8	1638.7	1641.6	1646.5	1649.5	1651.4	1660.2	1663.1	1672.9
15°	1624.1	1637.7	1648.5	1652.4	1656.3	1662.1	1666.0	1669.0	1676.8	1680.7	1692.4
17.5°	1625.1	1640.7	1653.4	1659.2	1664.1	1670.9	1676.8	1682.6	1691.4	1697.2	1709.0
20°	1624.1	1644.6	1664.1	1671.9	1676.8	1689.4	1698.2	1706.0	1716.8	1722.6	1734.3
22.5°	1634.8	1658.2	1684.6	1694.3	1702.1	1719.7	1731.4	1744.1	1757.7	1761.6	1770.4
25°	1660.2	1684.6	1717.7	1731.4	1745.0	1768.5	1785.0	1803.6	1817.2	1819.2	1822.1
27.5°	1703.1	1725.5	1765.5	1786.0	1808.4	1841.6	1866.0	1884.5	1904.0	1904.0	1902.1
30°	1789.9	1794.8	1836.7	1863.1	1896.2	1945.0	1981.1	2001.6	2016.2	2016.2	1999.6
32.5°	1902.1	1896.2	1934.3	1962.6	2008.4	2076.7	2125.5	2141.1	2156.7	2151.8	2123.5
35°	2064.0	2047.4	2068.9	2111.8	2163.5	2257.1	2307.9	2343.0	2352.7	2339.1	2294.2
37.5°	2267.9	2265.9	2276.7	2324.4	2382.0	2503.0	2554.7	2577.1	2569.3	2544.9	2465.9
40°	2483.4	2477.6	2470.8	2503.0	2567.3	2712.7	2804.4	2816.1	2805.3	2769.2	2669.8
42.5°	2771.2	2771.2	2739.0	2747.8	2801.4	2964.3	3072.6	3109.7	3110.6	3058.0	2925.3
45°	3167.2	3163.3	3106.7	3093.1	3134.1	3294.0	3433.5	3454.0	3454.0	3384.7	3239.4
47.5°	3643.2	3638.4	3582.8	3535.0	3542.8	3715.4	3831.5	3862.7	3835.4	3783.7	3611.0
50°	4179.7	4170.9	4114.4	4069.5	4050.0	4224.6	4323.1	4337.7	4297.7	4236.3	4049.0
52.5°	4724.0	4750.3	4717.2	4692.8	4699.6	4812.8	4914.2	4845.0	4824.5	4758.1	4569.9
55°	5290.7	5371.7	5444.8	5423.4	5448.8	5559.0	5578.5	5486.8	5449.7	5401.9	5192.2
57.5°	5861.4	6097.4	6337.4	6404.7	6467.1	6625.1	6602.7	6452.5	6480.8	6552.0	6315.9
60°	6658.3	7340.1	7948.8	8061.0	8255.1	8389.7	8419.9	8390.6	8522.3	8485.3	8276.5
62.5°	7882.4	9018.8	9865.5	10076.2	10271.3	10264.4	10162.0	10056.7	10186.4	10186.4	9641.1
65°	8756.4	10046.0	10952.1	11126.7	11118.9	10883.8	10641.9	10431.2	10412.7	10268.3	9471.4
66°	8797.4	10125.0	11012.6	11164.8	11106.2	10727.8	10438.1	10170.8	10056.7	9855.7	9039.3
67.5°	8428.7	9901.6	10815.6	10948.2	10794.1	10251.8	9852.8	9494.8	9329.0	8990.5	8221.9
70°	6913.8	8509.6	9839.2	10110.3	9935.7	9249.0	8702.8	8219.0	7902.0	7413.3	6859.2
72.5°	5046.9	6282.7	7722.5	8163.4	8136.1	7504.0	7064.1	6621.2	6204.7	5759.9	5355.1
75°	3280.4	4087.1	4889.8	5147.3	5023.5	4657.7	4342.6	4084.1	3689.1	3379.9	3304.8
77.5°	1872.8	2288.4	2164.5	2132.3	1977.2	1595.8	1061.3	744.3	672.1	838.9	919.8
80°	1782.1	1615.3	1322.7	1193.0	1096.4	747.2	392.1	276.0	241.9	247.8	266.3
82.5°	2009.4	2094.2	1712.9	1431.0	1245.6	909.1	496.5	231.2	168.7	200.0	224.3
85°	1506.1	2120.6	2102.1	1781.1	1461.2	1047.6	587.2	176.6	101.4	140.5	183.4
87.5°	305.3	502.3	483.8	425.3	361.9	252.6	98.5	55.6	50.7	69.3	105.3
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1611.4	1611.4	1613.4	1616.3	1617.3	1617.3	1619.2	1617.3	1621.2	1622.1	1623.1
5°	1620.2	1623.1	1625.1	1629.9	1632.9	1634.8	1637.7	1635.8	1639.7	1640.7	1642.6
7.5°	1629.9	1634.8	1638.7	1640.7	1644.6	1644.6	1645.6	1643.6	1642.6	1639.7	1638.7
10°	1647.5	1650.4	1655.3	1653.4	1651.4	1644.6	1638.7	1629.9	1625.1	1616.3	1611.4
12.5°	1675.8	1677.7	1677.7	1669.0	1656.3	1640.7	1626.0	1611.4	1599.7	1590.0	1584.1
15°	1695.3	1699.2	1694.3	1681.6	1663.1	1641.6	1622.1	1602.6	1587.0	1574.3	1566.5
17.5°	1709.9	1709.0	1700.2	1682.6	1665.1	1646.5	1629.0	1608.5	1589.0	1570.4	1558.7
20°	1732.4	1722.6	1707.0	1688.5	1669.9	1654.3	1640.7	1621.2	1600.7	1575.3	1557.8
22.5°	1762.6	1745.0	1722.6	1703.1	1685.5	1670.9	1655.3	1638.7	1617.3	1589.0	1564.6
25°	1805.5	1775.3	1749.9	1730.4	1714.8	1698.2	1680.7	1659.2	1637.7	1608.5	1579.2
27.5°	1870.9	1826.0	1793.8	1776.3	1761.6	1739.2	1716.8	1691.4	1664.1	1633.8	1600.7
30°	1949.9	1896.2	1859.2	1843.6	1826.0	1800.6	1776.3	1741.1	1703.1	1667.0	1626.0
32.5°	2042.5	1987.9	1950.9	1939.2	1910.9	1881.6	1847.5	1800.6	1750.9	1697.2	1648.5
35°	2183.0	2113.8	2079.6	2052.3	2013.3	1978.2	1920.6	1859.2	1788.0	1716.8	1656.3
37.5°	2327.4	2257.1	2222.0	2184.0	2133.3	2068.9	1991.8	1904.0	1809.4	1721.6	1647.5
40°	2520.5	2444.4	2399.6	2341.0	2259.1	2158.6	2044.5	1924.5	1809.4	1700.2	1610.4
42.5°	2745.8	2675.6	2606.3	2509.8	2378.1	2231.8	2071.8	1917.7	1778.2	1652.4	1557.8
45°	3058.0	2938.0	2827.8	2672.7	2480.5	2274.7	2074.7	1885.5	1724.6	1585.1	1479.7
47.5°	3409.1	3254.0	3058.9	2816.1	2553.7	2291.3	2046.5	1825.0	1639.7	1488.5	1373.4
50°	3813.9	3575.9	3276.5	2930.2	2590.7	2268.8	1979.1	1723.6	1522.6	1349.0	1226.1
52.5°	4277.3	3914.4	3473.5	3011.2	2584.9	2200.6	1867.9	1590.0	1365.6	1181.2	1060.3
55°	4791.3	4283.1	3661.8	3062.8	2532.2	2067.9	1693.3	1401.7	1170.5	989.1	882.8
57.5°	5697.5	4929.8	4020.7	3132.1	2422.0	1867.0	1471.9	1163.7	954.9	800.8	699.4
60°	7381.1	6060.3	4700.6	3295.0	2256.2	1615.3	1193.0	913.0	738.4	626.2	551.1
62.5°	8422.8	6856.3	5032.2	3271.6	1987.0	1271.0	885.7	676.9	539.4	465.3	418.5
65°	8176.1	6544.2	4627.4	2810.2	1546.1	901.3	586.2	442.8	370.7	332.6	310.2
66°	7840.5	6195.0	4285.1	2516.6	1347.1	753.0	483.8	371.6	319.0	290.7	279.0
67.5°	7137.2	5557.0	3695.9	2015.2	1009.6	560.9	357.0	291.7	259.5	244.8	237.0
70°	5973.5	4477.2	2614.2	1190.0	547.2	304.3	228.3	202.9	195.1	190.2	187.3
72.5°	4618.7	3241.4	1527.5	585.3	276.0	197.0	173.6	162.9	160.0	160.0	160.9
75°	2909.7	1863.1	683.8	281.9	187.3	159.0	148.3	143.4	144.4	145.3	144.4
77.5°	966.7	642.8	284.8	200.0	162.9	144.4	135.6	133.6	135.6	136.6	136.6
80°	278.0	242.9	205.8	176.6	149.2	134.6	126.8	125.8	130.7	131.7	129.7
82.5°	213.6	200.0	186.3	170.7	143.4	126.8	123.9	124.9	127.8	125.8	117.1
85°	196.1	194.1	139.5	138.5	124.9	121.0	118.0	119.0	116.1	105.3	95.6
87.5°	110.2	102.4	79.0	80.0	92.7	95.6	79.0	83.9	78.0	68.3	62.4
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°	1609.5	1609.5	1609.5	1609.5	1609.5
2.5°	1625.1	1624.1	1624.1	1627.0	1623.1
5°	1643.6	1642.6	1642.6	1645.6	1642.6
7.5°	1634.8	1631.9	1629.9	1629.0	1629.0
10°	1605.6	1602.6	1596.8	1594.8	1592.9
12.5°	1575.3	1572.4	1565.6	1565.6	1563.6
15°	1556.8	1552.9	1548.0	1545.1	1543.1
17.5°	1547.0	1541.2	1535.3	1532.4	1530.4
20°	1543.1	1535.3	1528.5	1523.6	1523.6
22.5°	1544.1	1534.4	1526.5	1520.7	1518.7
25°	1553.9	1539.2	1529.5	1523.6	1521.7
27.5°	1567.5	1550.0	1537.3	1529.5	1526.5
30°	1586.0	1561.7	1544.1	1534.4	1530.4
32.5°	1598.7	1564.6	1542.2	1528.5	1523.6
35°	1597.8	1553.9	1526.5	1509.0	1503.1
37.5°	1580.2	1528.5	1492.4	1470.9	1461.2
40°	1541.2	1481.7	1443.6	1423.2	1411.4
42.5°	1484.6	1420.2	1386.1	1363.7	1351.0
45°	1395.8	1332.4	1290.5	1272.9	1256.4
47.5°	1272.9	1208.6	1172.5	1147.1	1136.4
50°	1128.6	1064.2	1026.2	1005.7	995.9
52.5°	970.6	909.1	881.8	862.3	848.6
55°	806.7	750.1	738.4	716.9	704.3
57.5°	652.6	619.4	608.7	587.2	576.5
60°	510.1	499.4	487.7	474.1	468.2
62.5°	395.0	385.3	382.4	373.6	372.6
65°	301.4	302.4	300.4	298.5	296.5
66°	274.1	273.1	274.1	272.1	271.2
67.5°	233.1	237.0	240.0	239.0	239.0
70°	189.2	192.2	196.1	195.1	195.1
72.5°	161.9	166.8	168.7	167.8	167.8
75°	146.3	151.2	151.2	149.2	148.3
77.5°	136.6	138.5	136.6	134.6	132.7
80°	126.8	124.9	121.9	119.0	117.1
82.5°	110.2	105.3	102.4	97.5	97.5
85°	88.8	84.9	78.0	73.2	68.3
87.5°	57.6	55.6	50.7	38.0	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)