

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: P159783

Luminaire Tested: **VST-F06-LED-E-U-T4-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159783
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33707)
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-T4-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12442.4 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



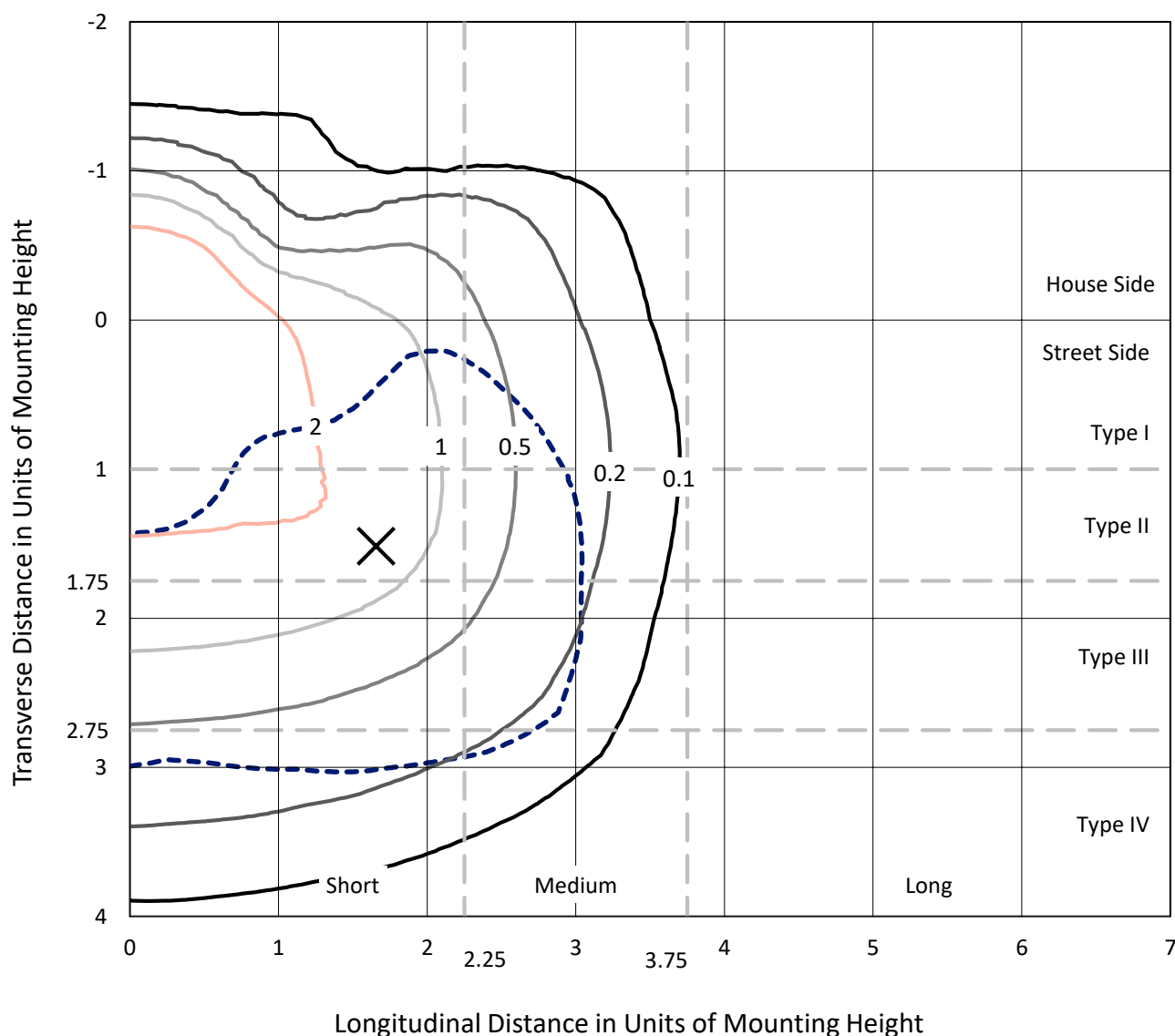
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

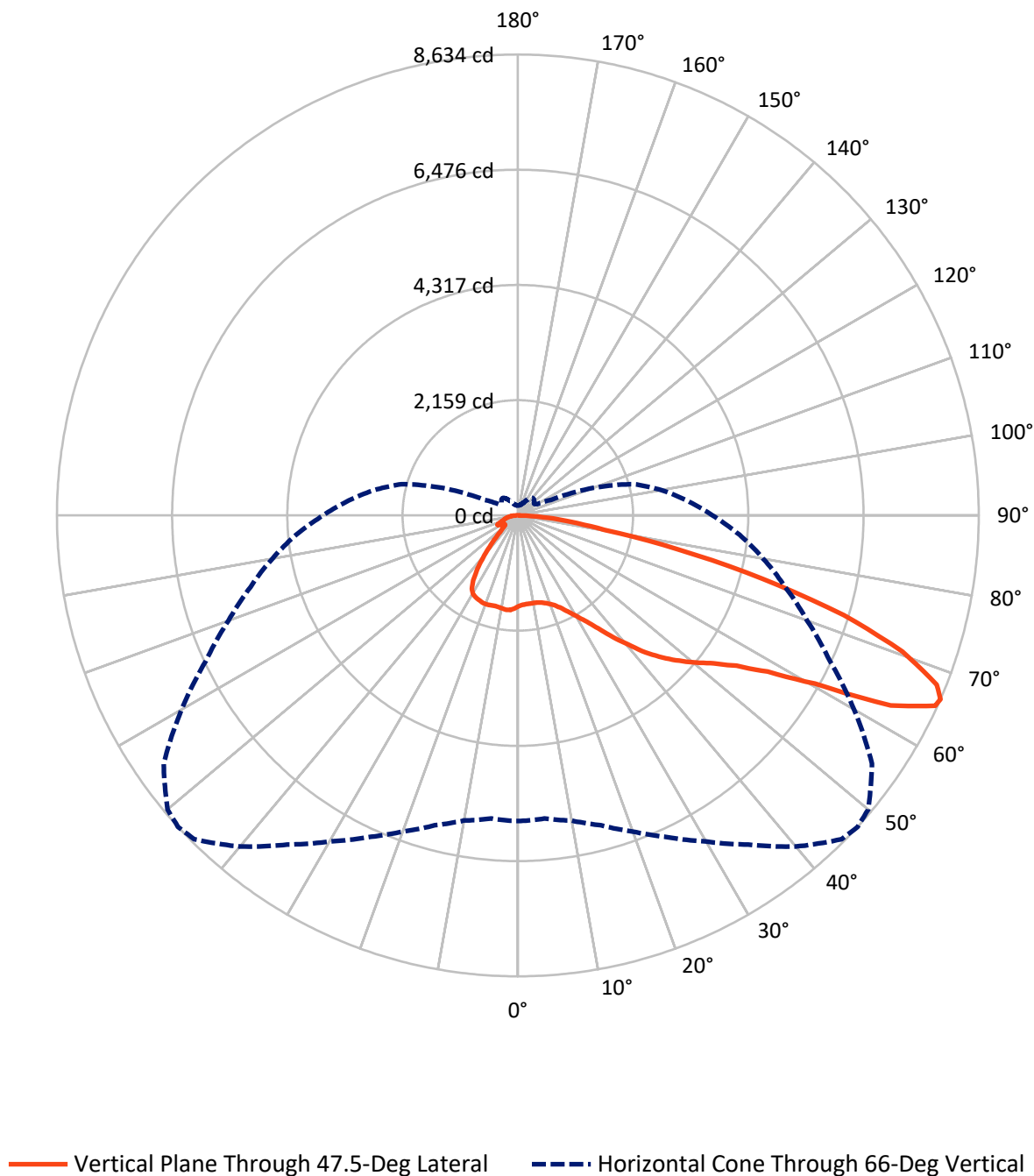


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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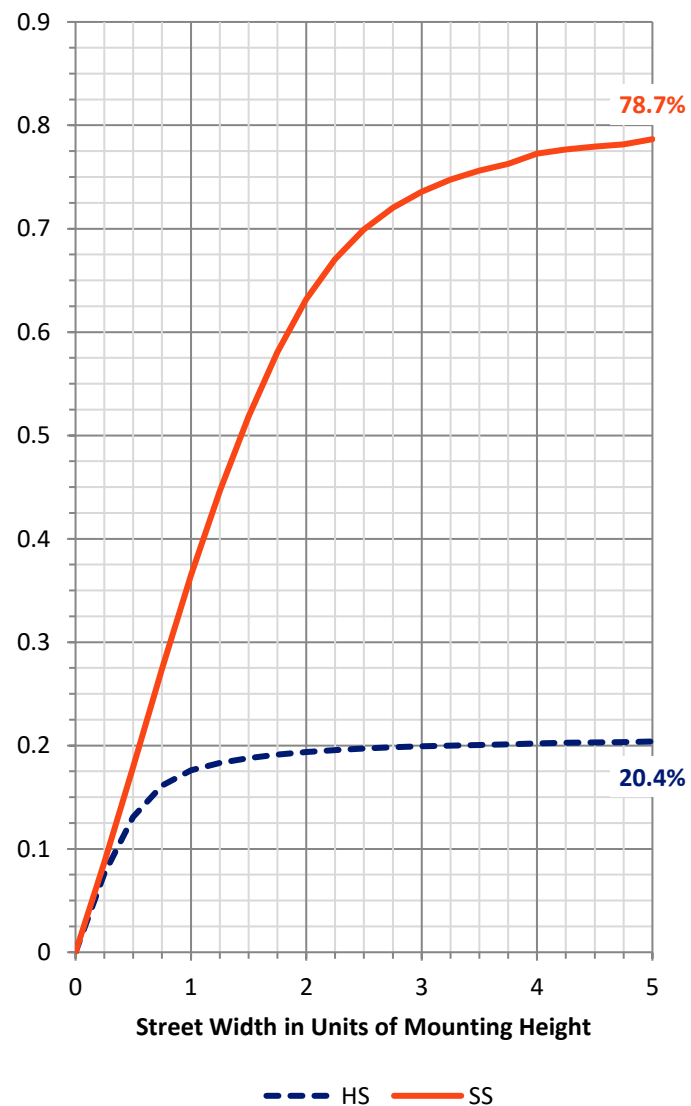
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2576.1	0.0	2576.1
	% Fixture	20.7	0.0	20.7
Street Side	Lumens	9866.3	0.0	9866.3
	% Fixture	79.3	0.0	79.3
Total	Lumens	12442.4	0.0	12442.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	1.3
10°-20°	492.0	4.0
20°-30°	839.5	6.7
30°-40°	1267.1	10.2
40°-50°	1646.9	13.2
50°-60°	2259.4	18.2
60°-70°	3475.7	27.9
70°-80°	2009.2	16.1
80°-90°	288.6	2.3
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°	12442.4	100.0
0°-180°	12442.4	100.0

Coefficient of Utilization



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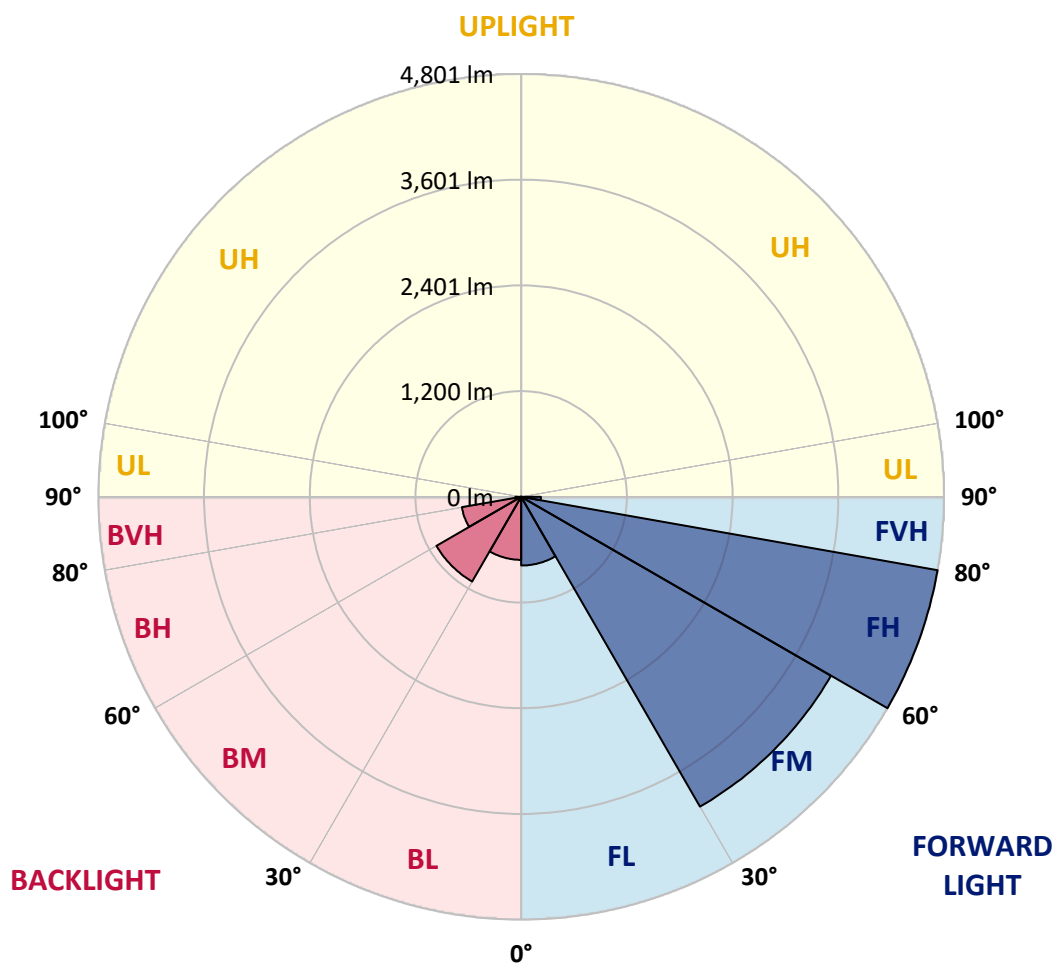
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	779.9	6.3			
FM	(30°-60°)	4061.9	32.6			
FH	(60°-80°)	4801.1	38.6			G2/5000
FVH	(80°-90°)	223.4	1.8			G2/225
BL	(0°-30°)	715.7	5.8	B2/1000		
BM	(30°-60°)	1111.5	8.9	B2/2500		
BH	(60°-80°)	683.7	5.5	B2/1000		G2/1000
BVH	(80°-90°)	65.3	0.5			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°	47.5°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1658.8	1659.6	1660.5	1660.5	1663.0	1663.0	1667.1	1669.7	1670.5	1675.5	1678.9
5°	1627.9	1627.0	1627.9	1629.5	1633.7	1637.0	1645.4	1651.3	1656.3	1664.6	1668.8
7.5°	1614.5	1616.1	1617.8	1618.7	1622.0	1630.4	1637.9	1643.7	1653.8	1663.8	1668.0
10°	1632.0	1634.5	1632.0	1633.7	1633.7	1641.2	1644.6	1648.8	1656.3	1665.5	1668.0
12.5°	1673.0	1678.0	1673.0	1668.8	1665.5	1672.2	1670.5	1667.1	1671.3	1673.8	1673.8
15°	1740.7	1740.7	1737.4	1731.5	1723.2	1724.0	1716.5	1709.0	1705.6	1699.8	1695.6
17.5°	1806.8	1805.1	1797.6	1790.1	1784.2	1781.7	1770.8	1760.8	1749.1	1739.9	1729.9
20°	1871.2	1877.8	1868.6	1857.8	1848.6	1842.7	1834.4	1814.3	1800.1	1785.0	1775.0
22.5°	1982.4	1976.5	1966.5	1950.6	1941.4	1931.4	1913.8	1892.1	1870.3	1851.9	1839.4
25°	2096.9	2091.0	2076.8	2065.1	2051.7	2043.4	2024.2	1997.4	1976.5	1948.1	1931.4
27.5°	2219.8	2214.8	2198.1	2188.9	2179.7	2169.6	2152.9	2125.3	2106.1	2073.5	2055.9
30°	2358.6	2357.8	2335.2	2333.5	2320.1	2309.3	2297.6	2274.1	2254.9	2222.3	2201.4
32.5°	2506.6	2503.2	2487.3	2482.3	2491.5	2484.0	2467.3	2443.0	2418.0	2398.7	2375.3
35°	2717.3	2711.4	2702.2	2706.4	2712.3	2733.2	2707.2	2686.3	2656.2	2631.2	2598.5
37.5°	2871.1	2862.7	2873.6	2897.0	2930.5	2946.4	2968.9	2969.8	2955.6	2922.1	2893.7
40°	3012.4	3009.1	3034.1	3066.8	3128.6	3173.8	3216.4	3237.3	3242.3	3220.6	3178.0
42.5°	3132.0	3142.0	3175.4	3225.6	3312.6	3381.1	3460.5	3509.9	3540.8	3529.1	3509.9
45°	3274.1	3279.1	3320.1	3383.6	3466.4	3580.1	3684.6	3768.2	3822.6	3821.7	3800.0
47.5°	3452.2	3453.0	3488.1	3562.5	3651.2	3766.6	3898.7	4009.9	4081.8	4085.1	4068.4
50°	3663.7	3662.0	3700.5	3770.7	3865.2	3976.4	4116.9	4255.7	4356.0	4356.0	4331.7
52.5°	3936.3	3932.9	3953.8	4015.7	4106.8	4223.9	4363.5	4524.0	4632.7	4656.1	4603.5
55°	4300.0	4305.0	4310.0	4364.4	4442.1	4534.9	4695.4	4843.4	4988.9	5002.3	4971.3
57.5°	4720.5	4703.8	4739.8	4828.4	4917.0	5033.2	5146.9	5321.7	5493.9	5523.2	5519.0
60°	5377.7	5355.9	5392.7	5505.6	5603.4	5786.5	5981.3	6207.1	6411.1	6471.3	6398.5
62.5°	5982.2	6008.9	6059.1	6190.4	6332.5	6576.6	6869.3	7256.4	7643.5	7854.2	7839.1
65°	5927.8	5902.7	5998.9	6177.8	6435.3	6746.4	7110.0	7576.6	8134.2	8557.3	8594.9
66°	5726.3	5700.4	5804.1	6008.9	6303.2	6649.4	7053.2	7528.1	8098.3	8576.5	8634.2
67.5°	5393.6	5367.7	5484.7	5671.1	5974.6	6410.2	6846.7	7365.9	7958.7	8416.8	8463.7
70°	4751.5	4716.3	4807.5	5018.2	5264.0	5685.4	6100.9	6651.0	7259.7	7625.9	7643.5
72.5°	4024.9	3943.0	4040.0	4202.2	4377.7	4726.4	5088.4	5464.6	5949.6	6288.2	6385.2
75°	2920.4	2963.1	2991.5	3098.5	3214.7	3503.2	3715.6	4030.8	4406.2	4651.1	4728.9
77.5°	1549.3	1613.6	1653.8	1760.8	1953.1	2173.0	2402.9	2597.7	2844.4	2981.5	3076.8
80°	869.5	914.7	979.9	1064.3	1158.0	1326.9	1463.1	1563.5	1598.6	1622.8	1644.6
82.5°	478.2	592.8	689.8	748.3	803.5	871.2	952.3	1035.9	1062.7	1022.5	1001.6
85°	74.4	109.5	333.6	407.2	443.1	495.0	553.5	615.4	616.2	530.1	578.6
87.5°	20.9	23.4	47.7	71.9	70.2	56.9	70.2	127.9	75.2	37.6	43.5
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1680.5	1682.2	1686.4	1690.6	1694.7	1698.9	1701.4	1705.6	1709.0	1714.0	1719.8
5°	1673.8	1678.0	1685.5	1694.7	1703.1	1710.6	1716.5	1724.8	1732.4	1739.1	1749.1
7.5°	1673.8	1682.2	1694.7	1704.8	1712.3	1721.5	1730.7	1739.1	1747.4	1754.1	1760.8
10°	1674.7	1683.0	1695.6	1707.3	1715.6	1725.7	1733.2	1740.7	1749.9	1754.1	1762.5
12.5°	1678.0	1681.4	1690.6	1702.3	1712.3	1722.3	1729.9	1737.4	1747.4	1749.1	1754.9
15°	1694.7	1689.7	1692.2	1700.6	1711.5	1719.8	1728.2	1734.0	1740.7	1739.1	1744.1
17.5°	1725.7	1713.1	1708.1	1709.0	1714.0	1719.8	1723.2	1724.0	1724.8	1717.3	1718.1
20°	1767.5	1749.9	1738.2	1732.4	1725.7	1719.8	1710.6	1699.8	1689.7	1674.7	1673.0
22.5°	1830.2	1804.3	1791.7	1775.8	1755.8	1730.7	1708.1	1681.4	1659.6	1637.0	1628.7
25°	1921.3	1894.6	1881.2	1856.1	1820.2	1784.2	1751.6	1715.6	1683.9	1657.1	1644.6
27.5°	2043.4	2016.6	2002.4	1976.5	1932.2	1896.2	1851.1	1812.6	1774.2	1734.9	1719.0
30°	2191.4	2168.0	2152.1	2131.2	2092.7	2053.4	2000.7	1941.4	1880.3	1817.6	1786.7
32.5°	2366.1	2340.2	2328.5	2304.2	2264.1	2223.1	2164.6	2088.5	1986.5	1887.9	1826.0
35°	2584.3	2555.1	2541.7	2509.9	2463.1	2402.9	2340.2	2238.2	2100.2	1963.1	1862.0
37.5°	2876.1	2810.9	2766.6	2693.9	2618.6	2534.2	2444.7	2340.2	2177.2	2007.4	1867.0
40°	3134.5	3068.4	2983.1	2878.6	2761.6	2645.4	2543.4	2424.6	2247.4	2039.2	1851.1
42.5°	3455.5	3338.5	3202.2	3060.9	2905.4	2762.4	2641.2	2501.6	2295.0	2047.6	1806.8
45°	3749.0	3609.4	3427.1	3239.0	3045.8	2866.1	2729.8	2574.3	2336.0	2047.6	1753.3
47.5°	4016.5	3849.3	3631.1	3397.0	3172.1	2975.6	2820.9	2648.7	2393.7	2073.5	1737.4
50°	4264.0	4071.7	3823.4	3551.7	3299.2	3089.3	2922.9	2744.0	2481.5	2140.4	1775.8
52.5°	4524.9	4320.9	4018.2	3729.8	3451.3	3226.4	3049.2	2861.9	2595.2	2245.7	1843.6
55°	4866.8	4627.7	4284.1	3966.4	3660.4	3412.1	3210.6	3003.2	2719.8	2364.4	1926.3
57.5°	5406.1	5059.1	4715.5	4302.5	4014.0	3687.1	3466.4	3228.1	2922.1	2519.1	2050.9
60°	6350.0	5923.6	5510.6	5035.7	4679.6	4337.6	4004.0	3693.0	3324.3	2868.6	2324.3
62.5°	7697.8	7264.7	6615.9	6034.8	5497.2	5044.1	4609.3	4213.9	3740.6	3242.3	2661.3
65°	8503.0	8007.2	7233.8	6452.9	5799.9	5238.1	4740.6	4256.5	3745.7	3259.9	2763.3
66°	8567.3	8098.3	7272.2	6447.0	5769.0	5186.2	4668.7	4167.9	3644.5	3179.6	2729.8
67.5°	8447.8	8044.0	7193.7	6333.3	5640.2	5010.6	4478.9	3953.8	3427.9	2997.4	2618.6
70°	7604.2	7312.4	6583.3	5777.3	5085.9	4530.7	3969.7	3464.7	2966.4	2604.4	2323.5
72.5°	6233.8	5864.3	5354.3	4812.5	4268.2	3775.7	3265.7	2836.0	2418.0	2154.6	1955.6
75°	4579.2	4246.5	3684.6	3346.8	2987.3	2678.0	2334.3	1927.2	1630.4	1498.3	1449.8
77.5°	2902.9	2541.7	2067.6	1694.7	1457.3	1252.5	987.4	785.1	628.7	654.7	724.9
80°	1466.5	1263.3	945.6	746.6	645.5	536.8	424.7	321.9	234.9	268.4	303.5
82.5°	941.4	785.9	626.2	493.3	416.4	367.0	293.5	213.2	158.9	178.9	219.1
85°	566.9	479.1	382.1	312.7	271.7	226.6	166.4	117.9	117.1	125.4	154.7
87.5°	86.1	122.9	71.1	76.1	80.3	86.1	76.1	64.4	56.0	72.7	92.0
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°	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1725.7	1727.3	1730.7	1734.9	1734.0	1739.9	1743.2	1739.9	1747.4	1747.4	1751.6
5°	1757.4	1760.0	1765.8	1770.0	1771.7	1776.7	1778.3	1777.5	1779.2	1780.0	1781.7
7.5°	1766.6	1773.3	1775.8	1778.3	1779.2	1780.9	1780.9	1779.2	1779.2	1778.3	1780.0
10°	1764.1	1766.6	1768.3	1767.5	1767.5	1765.8	1765.0	1764.1	1764.1	1762.5	1765.0
12.5°	1755.8	1755.8	1755.8	1754.1	1754.1	1753.3	1753.3	1753.3	1754.9	1755.8	1760.0
15°	1739.1	1739.1	1740.7	1739.9	1742.4	1746.6	1751.6	1754.9	1759.1	1760.0	1762.5
17.5°	1713.1	1714.0	1719.0	1729.9	1740.7	1753.3	1762.5	1765.0	1761.6	1753.3	1747.4
20°	1668.0	1678.9	1698.9	1724.8	1749.1	1765.0	1769.2	1759.1	1743.2	1721.5	1709.8
22.5°	1627.9	1649.6	1685.5	1728.2	1758.3	1769.2	1756.6	1733.2	1704.8	1679.7	1662.1
25°	1643.7	1668.8	1706.4	1743.2	1762.5	1756.6	1731.5	1698.1	1668.0	1638.7	1610.3
27.5°	1710.6	1735.7	1762.5	1773.3	1766.6	1744.9	1709.8	1673.8	1633.7	1591.9	1556.8
30°	1774.2	1788.4	1790.1	1779.2	1754.9	1719.8	1678.9	1637.0	1586.0	1535.9	1491.6
32.5°	1794.2	1777.5	1747.4	1716.5	1683.0	1647.1	1599.4	1544.2	1489.9	1433.0	1383.7
35°	1788.4	1720.7	1646.2	1580.2	1540.1	1499.1	1455.6	1382.0	1321.0	1272.5	1240.7
37.5°	1735.7	1612.0	1497.4	1401.3	1338.6	1290.1	1225.7	1164.7	1112.0	1090.3	1064.3
40°	1662.1	1473.2	1314.3	1179.7	1114.5	1052.6	980.7	933.9	918.9	898.8	899.6
42.5°	1556.8	1311.0	1106.1	951.5	880.4	812.7	761.7	734.1	734.9	718.2	721.5
45°	1445.6	1147.9	890.4	736.6	666.4	608.7	580.2	571.9	572.7	573.6	568.5
47.5°	1377.9	1020.9	714.0	558.5	496.6	464.0	449.0	444.8	445.6	446.5	440.6
50°	1367.8	954.8	596.1	427.2	387.1	368.7	361.2	357.0	357.0	353.7	348.6
52.5°	1396.3	938.1	538.4	370.4	331.9	315.2	309.4	306.0	301.0	294.3	285.1
55°	1441.4	953.1	520.9	351.2	313.5	296.8	289.3	287.6	279.3	266.7	251.7
57.5°	1525.0	1007.5	532.6	356.2	316.9	301.8	296.8	295.1	283.4	264.2	245.0
60°	1765.0	1165.5	591.1	384.6	341.1	328.6	328.6	326.1	310.2	282.6	255.0
62.5°	2096.1	1397.1	670.5	423.9	374.6	372.9	387.1	387.9	359.5	315.2	271.7
65°	2255.8	1505.8	698.1	432.3	383.8	403.0	431.4	431.4	391.3	330.3	274.2
66°	2256.6	1503.3	689.8	422.2	373.7	398.8	428.1	428.1	386.3	326.1	270.1
67.5°	2198.9	1456.5	662.2	403.8	351.2	374.6	400.5	399.6	362.0	309.4	258.3
70°	1972.3	1288.4	583.6	373.7	324.4	325.2	334.4	328.6	303.5	267.5	234.9
72.5°	1700.6	1077.7	505.8	354.5	303.5	287.6	280.1	275.1	259.2	237.4	217.4
75°	1304.3	836.9	440.6	336.9	285.1	257.5	247.5	243.3	232.4	219.9	204.0
77.5°	799.3	573.6	373.7	308.5	264.2	239.1	228.3	219.9	209.0	197.3	186.4
80°	344.5	346.1	299.3	261.7	229.9	200.7	186.4	176.4	170.6	166.4	160.5
82.5°	240.8	248.3	228.3	203.2	175.6	154.7	142.1	139.6	140.5	140.5	138.8
85°	180.6	177.2	159.7	145.5	132.9	119.6	109.5	108.7	112.0	112.0	109.5
87.5°	104.5	105.3	90.3	84.4	87.8	75.2	68.6	69.4	77.8	76.9	75.2
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):

	160°	165°	170°	175°	180°
0°	1702.3	1702.3	1702.3	1702.3	1702.3
2.5°	1751.6	1754.1	1753.3	1755.8	1753.3
5°	1784.2	1783.4	1782.5	1785.9	1781.7
7.5°	1779.2	1780.0	1780.0	1780.0	1779.2
10°	1766.6	1770.0	1771.7	1775.0	1774.2
12.5°	1762.5	1767.5	1772.5	1777.5	1778.3
15°	1763.3	1766.6	1769.2	1771.7	1772.5
17.5°	1741.6	1740.7	1738.2	1736.5	1734.9
20°	1697.2	1693.1	1688.9	1682.2	1685.5
22.5°	1642.1	1630.4	1617.0	1606.1	1605.3
25°	1577.7	1555.9	1534.2	1520.0	1515.0
27.5°	1520.8	1494.9	1472.3	1459.8	1456.5
30°	1453.1	1429.7	1409.6	1398.8	1392.1
32.5°	1352.8	1334.4	1309.3	1300.9	1300.1
35°	1213.2	1198.9	1181.4	1178.0	1173.9
37.5°	1055.1	1050.1	1041.8	1031.7	1030.1
40°	886.2	889.6	887.1	881.2	872.0
42.5°	723.2	729.1	729.9	734.1	738.3
45°	576.1	581.1	581.1	585.3	590.3
47.5°	442.3	438.9	441.5	445.6	448.1
50°	334.4	331.9	327.7	324.4	321.1
52.5°	269.2	264.2	252.5	249.2	245.8
55°	237.4	228.3	219.9	216.5	216.5
57.5°	228.3	216.5	207.3	203.2	201.5
60°	229.9	213.2	201.5	194.8	192.3
62.5°	237.4	214.0	198.2	190.6	188.1
65°	236.6	212.4	197.3	189.0	186.4
66°	232.4	209.9	195.6	188.1	186.4
67.5°	225.7	206.5	194.0	187.3	184.8
70°	212.4	199.8	190.6	184.8	182.3
72.5°	201.5	193.1	184.8	178.1	176.4
75°	191.5	183.1	175.6	172.2	169.7
77.5°	176.4	168.9	164.7	161.4	159.7
80°	156.3	151.3	146.3	143.0	140.5
82.5°	136.3	129.6	124.6	122.1	120.4
85°	111.2	107.0	99.5	94.5	93.6
87.5°	74.4	70.2	67.7	63.5	59.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)