

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: P175640

Luminaire Tested: **VERD-G-A02-E-U-T4-7030-AP**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P175640
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26232)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-G-A02-E-U-T4-7030-AP
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE IV OPTICS, GREY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14594 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.9' x L: 1.25' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

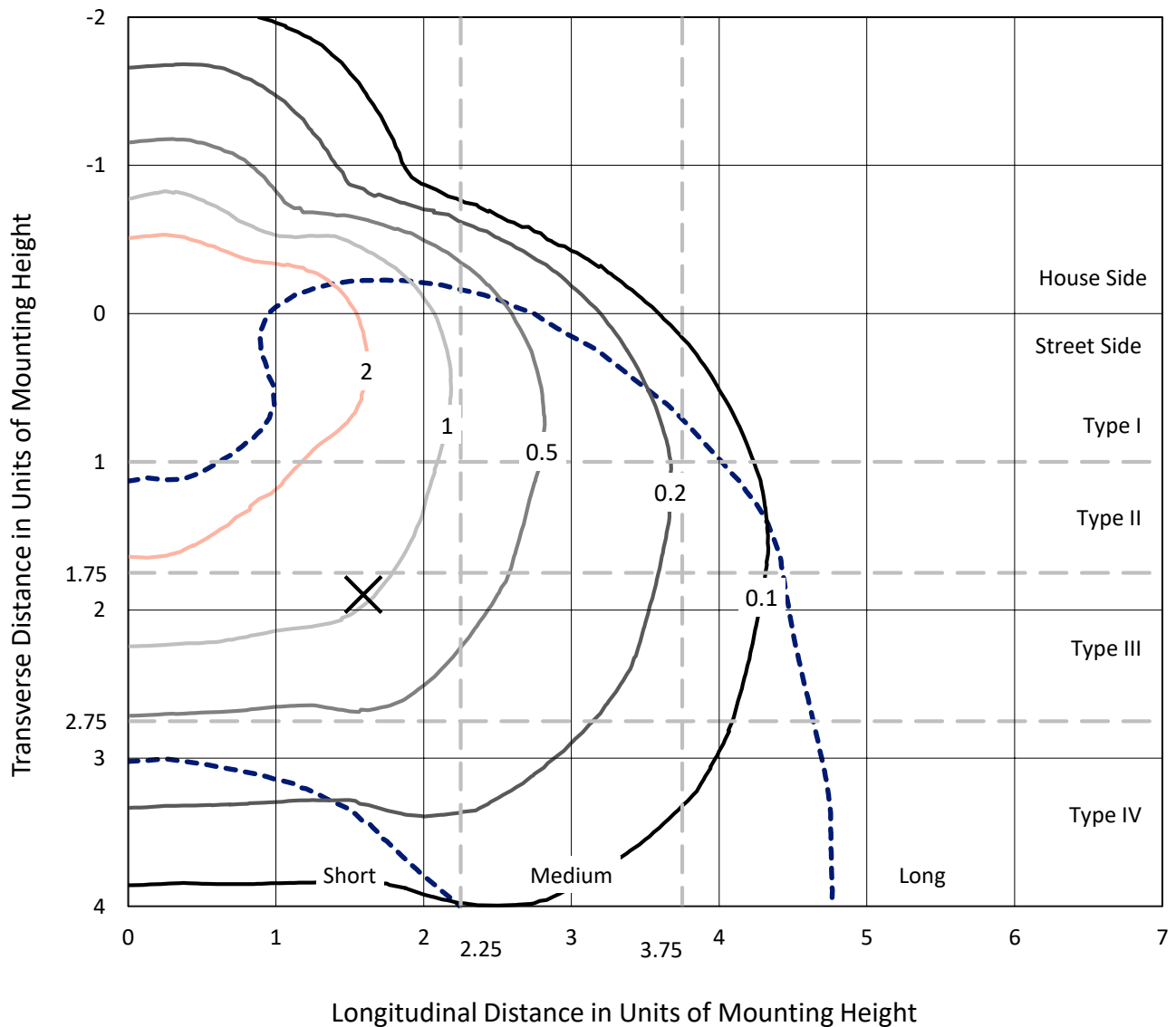
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

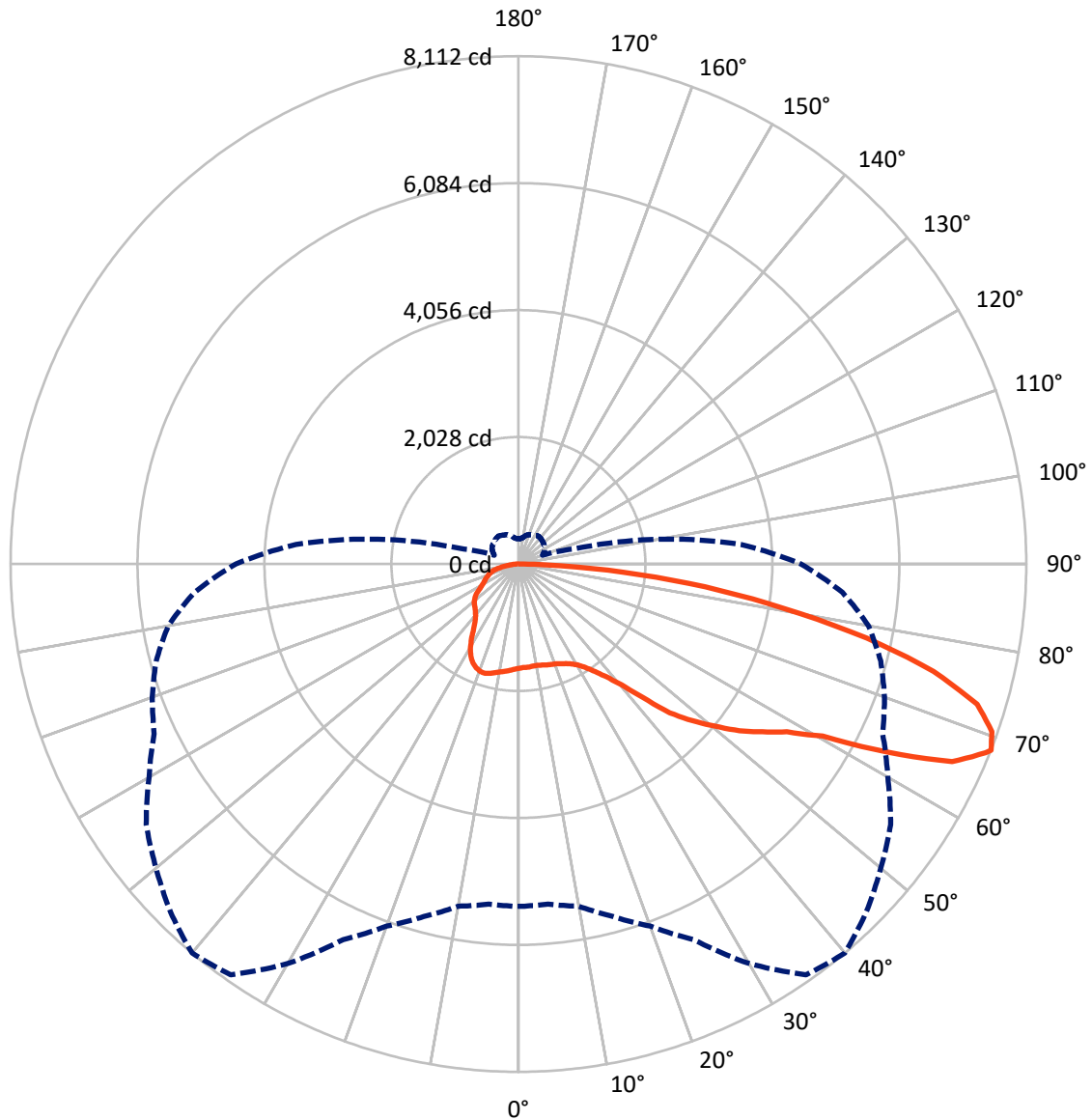
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical



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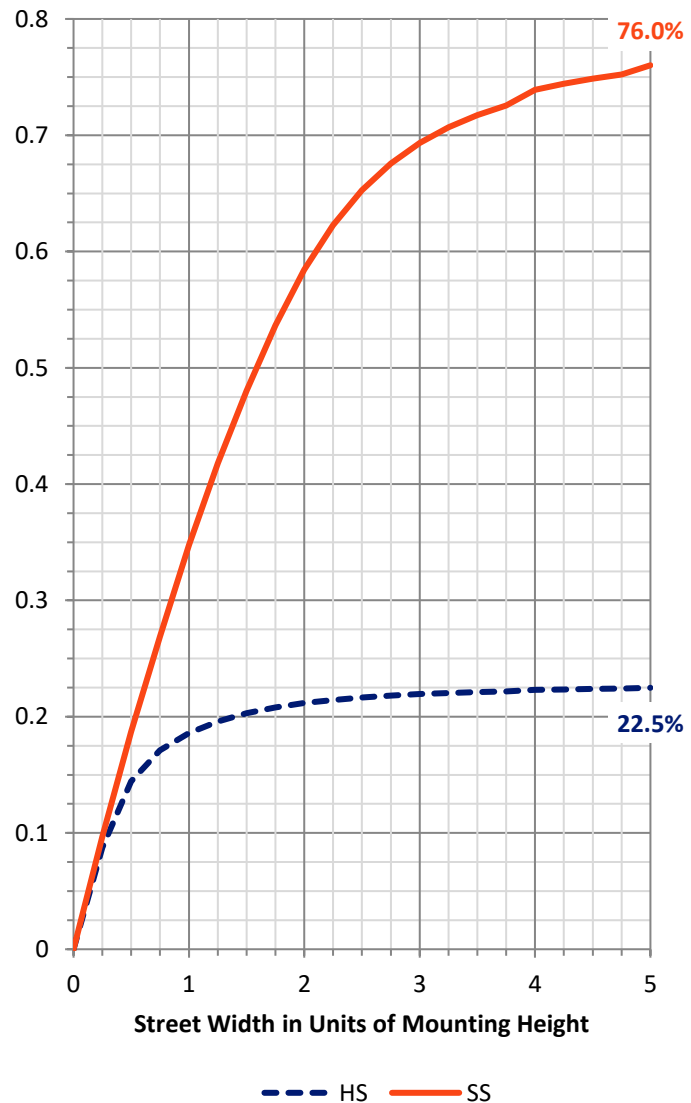
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3321.3	0.0	3321.3
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	11272.7	0.0	11272.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	14594.0	0.0	14594.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.0	1.1
10°-20°	494.0	3.4
20°-30°	831.7	5.7
30°-40°	1246.8	8.5
40°-50°	2042.4	14.0
50°-60°	2912.5	20.0
60°-70°	3669.9	25.1
70°-80°	2696.4	18.5
80°-90°	539.4	3.7
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°	14594.0	100.0
0°-180°	14594.0	100.0



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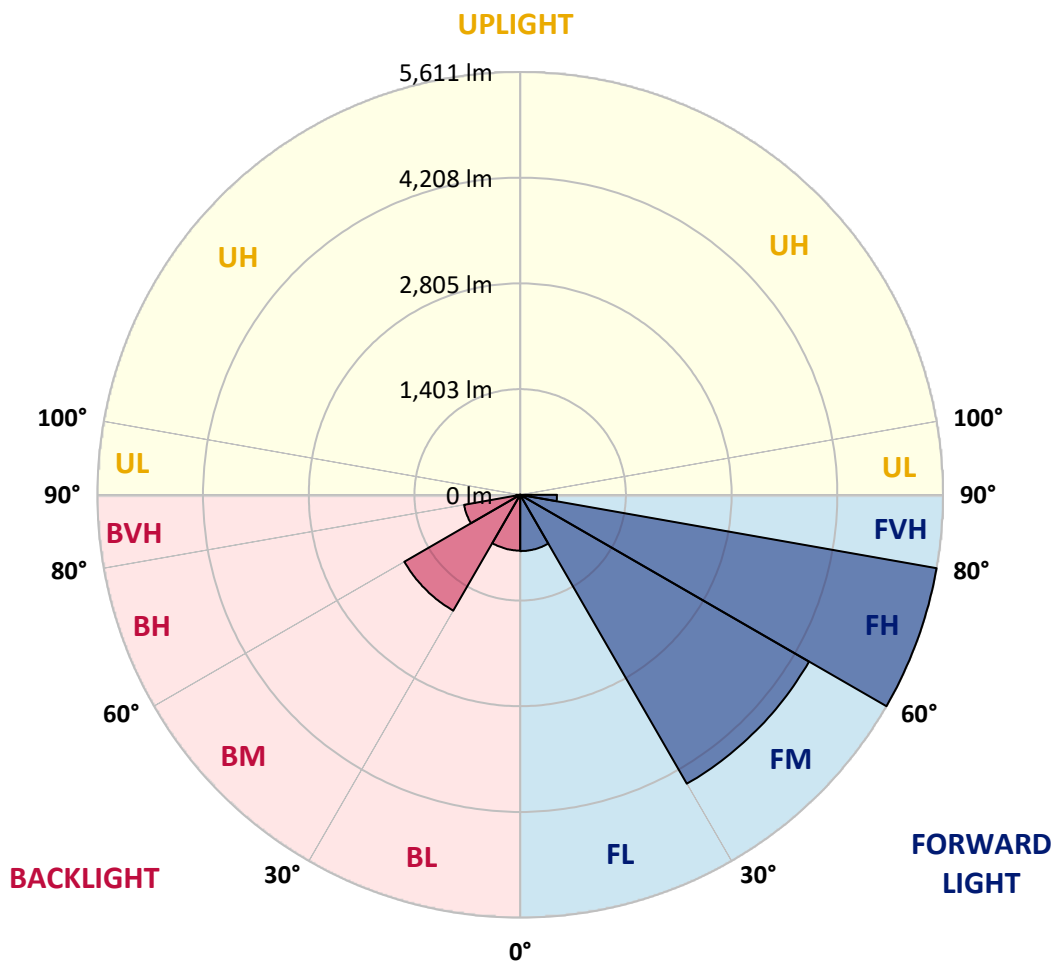
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.6	5.1			
FM	(30°-60°)	4426.1	30.3			
FH	(60°-80°)	5610.9	38.4			G3/7500
FVH	(80°-90°)	489.2	3.4			G3/500
BL	(0°-30°)	740.1	5.1	B2/1000		
BM	(30°-60°)	1775.6	12.2	B2/2500		
BH	(60°-80°)	755.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	50.3	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1672.9	1671.9	1664.2	1662.3	1655.6	1656.5	1654.6	1651.7	1652.7	1646.9	1646.9
5°	1671.0	1671.0	1663.3	1661.3	1657.5	1661.3	1660.4	1654.6	1656.5	1655.6	1654.6
7.5°	1655.6	1653.7	1645.0	1644.0	1641.2	1646.9	1648.8	1644.0	1646.0	1652.7	1654.6
10°	1642.1	1643.1	1635.4	1635.4	1633.5	1643.1	1647.9	1645.0	1646.9	1656.5	1657.5
12.5°	1621.0	1623.9	1619.0	1621.0	1621.9	1635.4	1647.9	1651.7	1656.5	1665.2	1670.0
15°	1611.4	1612.3	1609.4	1613.3	1618.1	1633.5	1648.8	1660.4	1672.9	1685.4	1693.1
17.5°	1626.7	1625.8	1621.0	1621.9	1624.8	1638.3	1657.5	1674.8	1686.3	1698.8	1713.3
20°	1631.5	1634.4	1631.5	1634.4	1639.2	1653.7	1678.7	1694.0	1702.7	1714.2	1733.5
22.5°	1661.3	1657.5	1656.5	1659.4	1658.5	1671.9	1694.0	1717.1	1731.5	1738.3	1758.5
25°	1691.2	1688.3	1688.3	1694.0	1694.0	1704.6	1725.8	1745.0	1761.3	1782.5	1809.4
27.5°	1722.9	1721.0	1721.0	1732.5	1738.3	1747.9	1769.0	1790.2	1807.5	1828.6	1867.1
30°	1787.3	1783.4	1775.8	1789.2	1792.1	1800.8	1827.7	1849.8	1871.9	1899.8	1936.3
32.5°	1898.8	1892.1	1879.6	1880.6	1875.7	1882.5	1922.9	1937.3	1968.0	1996.9	2028.6
35°	2144.9	2120.9	2093.0	2075.7	2052.6	2031.5	2057.5	2077.6	2109.4	2138.2	2179.6
37.5°	2507.4	2462.2	2420.9	2401.6	2359.3	2303.6	2285.3	2256.5	2284.4	2332.4	2382.4
40°	2911.2	2911.2	2865.1	2812.2	2743.9	2650.7	2600.7	2551.6	2534.3	2550.7	2624.7
42.5°	3295.8	3308.3	3264.0	3209.2	3151.6	3054.5	2988.1	2946.8	2912.2	2894.9	2919.9
45°	3653.4	3699.6	3671.7	3611.1	3573.6	3533.2	3512.1	3437.1	3391.0	3321.7	3297.7
47.5°	3919.7	3964.9	3935.1	3846.7	3824.6	3817.8	3816.9	3767.8	3739.0	3674.6	3635.2
50°	4196.6	4263.0	4210.1	4054.3	4067.8	4072.6	4082.2	4068.8	4071.6	4057.2	4035.1
52.5°	4631.2	4637.9	4451.4	4325.5	4300.5	4306.2	4348.5	4369.7	4424.5	4377.4	4387.0
55°	5262.9	5058.1	4821.6	4724.5	4620.6	4576.4	4583.1	4645.6	4732.1	4689.8	4695.6
57.5°	5472.4	5507.1	5518.6	5318.6	5259.0	5132.1	5105.2	4975.4	5057.1	4998.5	5017.7
60°	5912.8	6009.9	5987.8	6036.8	5912.8	5908.0	5950.3	5665.7	5584.0	5422.5	5383.0
62.5°	6405.0	6404.1	6537.7	6575.2	6626.2	6548.3	6717.5	6685.8	6620.4	6149.3	5864.7
65°	6207.0	6203.1	6290.6	6585.8	6687.7	6911.7	7160.7	7504.9	7610.7	7386.6	6927.1
67.5°	5533.0	5558.0	5665.7	6016.6	6307.0	6706.9	7316.5	7957.7	8046.2	7821.2	7511.6
68°	5468.6	5453.2	5549.4	5829.1	6154.1	6618.5	7368.4	8010.6	8111.6	7859.7	7555.9
70°	4738.9	4723.5	4902.3	5219.6	5571.5	6245.4	7434.7	7997.2	8023.1	7793.3	7518.4
72.5°	3691.9	3673.6	3841.9	4098.6	4491.8	5222.5	6866.5	7646.2	7661.6	7444.3	7222.2
75°	2682.4	2660.3	2817.9	3044.8	3370.8	4014.0	5682.0	6667.5	6852.1	6877.1	6809.8
77.5°	1850.7	1896.9	2052.6	2217.1	2507.4	2994.8	4294.7	5329.2	5687.8	5913.7	6066.6
80°	1244.1	1320.0	1440.2	1596.0	1827.7	2210.3	3194.8	3982.2	4294.7	4520.6	4631.2
82.5°	816.3	827.8	925.9	1060.5	1260.4	1568.1	2256.5	2825.6	3005.4	3034.3	2923.7
85°	428.8	462.4	523.0	607.6	732.6	918.2	1249.9	1617.1	1683.5	1671.0	1509.4
87.5°	156.7	170.2	200.0	240.4	300.0	388.4	502.8	562.4	425.9	313.4	224.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1649.8	1642.1	1641.2	1655.6	1651.7	1651.7	1649.8	1656.5	1649.8	1649.8	1659.4
5°	1653.7	1648.8	1648.8	1664.2	1668.1	1664.2	1668.1	1668.1	1666.2	1670.0	1676.7
7.5°	1652.7	1654.6	1655.6	1665.2	1676.7	1671.9	1683.5	1676.7	1685.4	1693.1	1695.0
10°	1652.7	1664.2	1669.0	1671.9	1682.5	1683.5	1692.1	1685.4	1698.8	1709.4	1711.3
12.5°	1670.0	1684.4	1701.7	1705.6	1714.2	1726.7	1727.7	1726.7	1744.0	1751.7	1760.4
15°	1698.8	1716.1	1737.3	1746.9	1758.5	1782.5	1779.6	1790.2	1809.4	1818.1	1833.4
17.5°	1729.6	1748.8	1773.8	1792.1	1809.4	1838.2	1836.3	1856.5	1875.7	1889.2	1906.5
20°	1757.5	1783.4	1812.3	1838.2	1867.1	1895.0	1900.7	1924.8	1951.7	1972.8	1987.3
22.5°	1790.2	1819.0	1850.7	1888.2	1924.8	1951.7	1976.7	2012.3	2042.1	2063.2	2071.9
25°	1842.1	1871.9	1907.5	1960.4	2000.7	2034.4	2080.5	2124.8	2152.6	2160.3	2157.4
27.5°	1907.5	1941.1	1984.4	2053.6	2097.8	2147.8	2214.2	2252.6	2268.0	2253.6	2216.1
30°	1983.4	2029.6	2083.4	2156.5	2214.2	2294.9	2375.7	2408.4	2391.1	2335.3	2253.6
32.5°	2088.2	2152.6	2216.1	2294.9	2390.1	2503.6	2587.2	2598.7	2532.4	2419.0	2289.2
35°	2253.6	2331.5	2412.2	2518.0	2692.0	2844.9	2913.1	2872.7	2731.4	2549.7	2354.5
37.5°	2475.7	2570.9	2691.0	2846.8	3105.4	3280.4	3309.2	3216.9	3007.3	2738.1	2448.8
40°	2736.2	2865.1	3024.7	3291.0	3567.9	3726.5	3716.9	3581.3	3312.1	2956.4	2574.7
42.5°	3063.1	3205.4	3406.3	3715.9	4028.4	4139.9	4093.8	3927.4	3609.2	3189.1	2712.2
45°	3382.3	3527.5	3754.4	4101.4	4401.4	4487.9	4414.9	4226.4	3875.5	3410.2	2867.9
47.5°	3701.5	3801.5	4089.9	4468.7	4750.4	4797.5	4690.8	4452.4	4096.6	3600.5	2980.4
50°	4077.4	4154.3	4455.3	4853.3	5062.9	5072.5	4959.0	4649.5	4252.4	3715.9	3065.0
52.5°	4430.3	4559.1	4870.6	5209.0	5337.8	5293.6	5165.7	4825.4	4365.8	3835.1	3089.1
55°	4771.6	4961.0	5300.3	5521.5	5573.4	5501.3	5304.2	4951.4	4460.1	3836.1	3068.9
57.5°	5100.4	5362.8	5680.1	5824.3	5801.3	5655.1	5360.0	4980.2	4469.7	3782.3	2988.1
60°	5459.9	5732.0	6009.9	6041.6	5941.6	5740.7	5408.0	4989.8	4413.9	3670.7	2850.6
62.5°	5854.1	6064.7	6224.3	6159.9	6020.5	5809.9	5428.2	4896.5	4320.7	3480.4	2531.4
65°	6392.5	6398.3	6383.9	6250.2	6037.8	5748.4	5343.6	4838.9	4087.0	3118.9	1970.0
67.5°	7188.6	6751.1	6432.9	6232.9	5998.3	5684.0	5243.6	4560.1	3688.0	2455.5	1129.7
68°	7257.8	6812.7	6418.5	6222.4	5990.7	5677.2	5193.6	4510.1	3565.9	2277.6	951.8
70°	7274.2	6812.7	6331.0	6160.8	5959.9	5548.4	4929.2	4031.3	2913.1	1461.4	396.1
72.5°	7056.9	6561.7	6226.2	6107.0	5759.0	5110.9	4198.6	3072.7	1768.1	458.6	301.9
75°	6765.6	6262.7	5854.1	5503.2	4993.7	4081.3	3014.1	1768.1	516.3	224.0	262.5
77.5°	5901.2	5354.2	4885.0	4432.2	3656.3	2641.0	1493.1	450.9	162.5	179.8	221.1
80°	4202.4	3595.7	2914.1	2282.4	1315.2	501.9	180.7	115.4	117.3	136.5	177.9
82.5°	2310.3	1533.5	915.3	354.8	123.1	105.8	95.2	78.8	82.7	110.6	129.8
85°	1006.6	485.5	147.1	89.4	77.9	71.1	60.6	54.8	70.2	73.1	70.2
87.5°	95.2	48.1	38.5	36.5	29.8	26.0	19.2	18.3	17.3	17.3	20.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1657.5	1659.4	1667.1	1665.2	1671.0	1679.6	1680.6	1685.4	1691.2	1696.9	1704.6
5°	1684.4	1684.4	1688.3	1685.4	1690.2	1695.0	1702.7	1704.6	1712.3	1723.8	1734.4
7.5°	1704.6	1703.6	1704.6	1712.3	1718.1	1718.1	1725.8	1726.7	1734.4	1744.0	1752.7
10°	1724.8	1737.3	1733.5	1739.2	1741.1	1742.1	1746.0	1747.9	1758.5	1762.3	1769.0
12.5°	1769.0	1780.6	1773.8	1782.5	1783.4	1778.6	1772.9	1771.9	1771.9	1768.1	1765.2
15°	1833.4	1839.2	1835.4	1828.6	1823.8	1822.9	1804.6	1790.2	1777.7	1760.4	1746.9
17.5°	1905.5	1902.7	1892.1	1883.4	1864.2	1850.7	1826.7	1795.0	1766.1	1728.6	1702.7
20°	1982.5	1962.3	1956.5	1926.7	1892.1	1858.4	1820.0	1775.8	1723.8	1669.0	1624.8
22.5°	2050.7	2020.9	1994.0	1954.6	1900.7	1849.8	1790.2	1733.5	1668.1	1593.1	1529.6
25°	2115.1	2058.4	2012.3	1954.6	1884.4	1818.1	1743.1	1671.0	1585.4	1492.1	1409.5
27.5°	2150.7	2073.8	1998.8	1920.9	1841.1	1750.8	1668.1	1577.7	1476.8	1371.0	1272.0
30°	2154.6	2061.3	1963.2	1855.6	1759.4	1654.6	1557.5	1445.0	1334.5	1224.9	1149.9
32.5°	2156.5	2025.7	1895.0	1766.1	1647.9	1526.7	1415.2	1291.2	1197.9	1130.6	1073.0
35°	2158.4	1982.5	1815.2	1646.0	1511.4	1380.6	1263.3	1166.2	1099.9	1055.6	1009.5
37.5°	2179.6	1942.1	1728.6	1527.7	1378.7	1247.9	1149.9	1075.8	1030.7	998.0	963.4
40°	2203.6	1894.0	1637.3	1416.2	1262.4	1147.0	1073.9	1027.8	994.1	969.1	941.2
42.5°	2220.9	1810.4	1512.3	1304.7	1156.6	1066.2	1024.9	999.9	980.7	962.4	931.6
45°	2251.7	1718.1	1372.0	1163.3	1058.5	1003.7	986.4	977.8	963.4	945.1	911.4
47.5°	2288.2	1620.0	1229.7	1045.1	970.1	961.4	960.5	952.8	932.6	913.4	878.7
50°	2307.4	1522.9	1079.7	946.0	915.3	922.0	927.8	920.1	890.3	862.4	831.6
52.5°	2367.0	1479.6	944.1	867.2	869.1	875.9	879.7	869.1	840.3	811.4	779.7
55°	2462.2	1417.1	843.2	789.3	806.6	816.3	825.9	809.5	790.3	769.1	745.1
57.5°	2328.6	1187.4	738.4	716.3	726.8	735.5	742.2	742.2	742.2	744.1	726.8
60°	1885.4	845.1	638.4	624.0	637.4	654.7	676.8	689.3	694.2	696.1	688.4
62.5°	1327.7	599.9	549.9	558.6	575.9	604.7	625.9	639.3	637.4	625.9	608.6
65°	743.2	499.0	507.6	533.6	548.0	571.1	590.3	598.0	583.6	566.3	550.9
67.5°	419.2	457.6	492.3	514.4	526.9	540.3	551.9	560.5	543.2	523.0	511.5
68°	408.6	451.9	488.4	507.6	520.1	533.6	542.2	548.0	529.7	511.5	501.9
70°	380.7	441.3	472.1	487.4	488.4	510.5	512.4	516.3	500.9	479.8	467.3
72.5°	349.0	418.2	433.6	446.1	456.7	464.4	482.6	474.9	455.7	437.4	408.6
75°	322.1	358.6	373.0	401.9	409.6	422.1	431.7	413.4	384.6	367.3	350.0
77.5°	279.8	298.0	313.4	319.2	342.3	351.9	362.5	362.5	345.2	347.1	321.1
80°	215.4	217.3	211.5	228.8	259.6	272.1	275.9	268.2	280.7	278.8	268.2
82.5°	124.0	115.4	125.0	129.8	145.2	156.7	175.9	192.3	194.2	188.4	200.0
85°	51.9	46.1	52.9	60.6	76.9	95.2	117.3	125.9	124.0	120.2	110.6
87.5°	21.2	21.2	25.0	29.8	39.4	50.0	56.7	66.3	72.1	74.0	69.2
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°	1665.2	1665.2	1665.2	1665.2
2.5°	1707.5	1706.5	1705.6	1703.6
5°	1737.3	1738.3	1738.3	1737.3
7.5°	1759.4	1764.2	1765.2	1765.2
10°	1776.7	1780.6	1781.5	1780.6
12.5°	1770.9	1771.9	1775.8	1776.7
15°	1744.0	1737.3	1735.4	1734.4
17.5°	1680.6	1663.3	1648.8	1642.1
20°	1580.6	1546.9	1519.1	1512.3
22.5°	1469.1	1417.1	1380.6	1368.1
25°	1334.5	1270.0	1230.6	1218.1
27.5°	1202.7	1139.3	1111.4	1096.0
30°	1094.1	1047.0	1016.2	1000.8
32.5°	1022.0	975.8	944.1	929.7
35°	962.4	914.3	872.0	852.8
37.5°	923.0	866.2	817.2	798.0
40°	899.9	848.9	796.1	774.9
42.5°	888.4	845.1	798.0	774.9
45°	870.1	823.9	783.6	758.6
47.5°	842.2	798.9	758.6	735.5
50°	791.3	747.0	714.3	696.1
52.5°	737.4	688.4	653.8	633.6
55°	700.9	651.8	624.9	611.5
57.5°	694.2	648.0	621.1	605.7
60°	654.7	610.5	575.9	559.6
62.5°	570.1	526.9	499.9	489.4
65°	517.2	475.9	449.9	442.3
67.5°	482.6	439.4	412.5	406.7
68°	474.0	430.7	407.6	400.0
70°	434.6	393.2	373.0	365.3
72.5°	350.9	310.5	283.6	274.0
75°	305.7	261.5	239.4	234.6
77.5°	268.2	216.3	194.2	189.4
80°	217.3	171.1	117.3	109.6
82.5°	162.5	104.8	87.5	79.8
85°	94.2	72.1	56.7	52.9
87.5°	59.6	50.0	43.3	40.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)