

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: P175644

Luminaire Tested: **VERD-G-A02-E-U-T4-7060-AP**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P175644  
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-T4-7060-AP  
Description: VERDEON-G ROADWAY AND AREA LUMINAIRE  
(2) 70 CRI, 5700K LEDS AND TYPE IV OPTICS, GREY PAINTED FINISH  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14730 lumens  
Efficiency: N/A  
Efficacy: 103.0 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

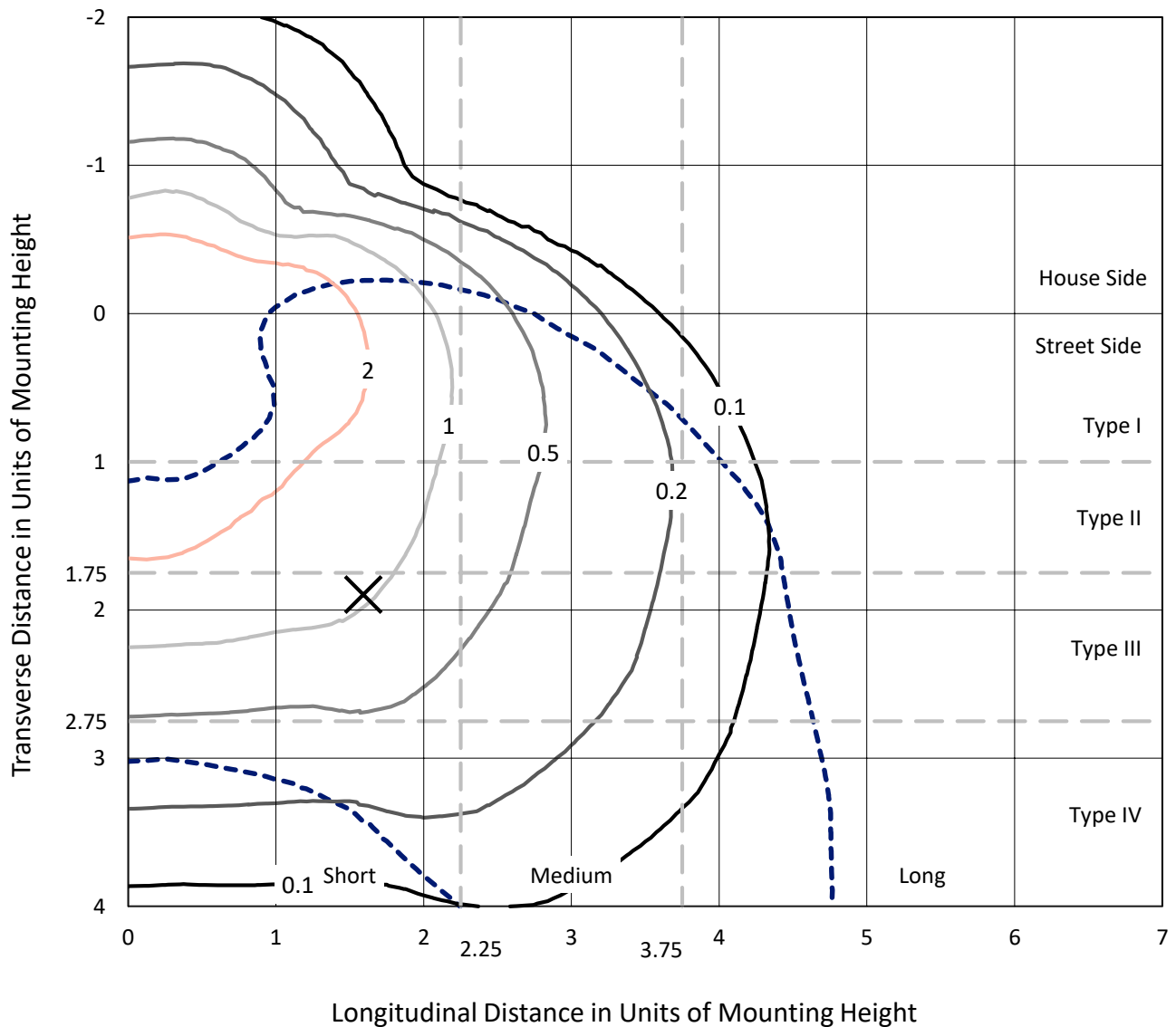
Input Watts (W): 143  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

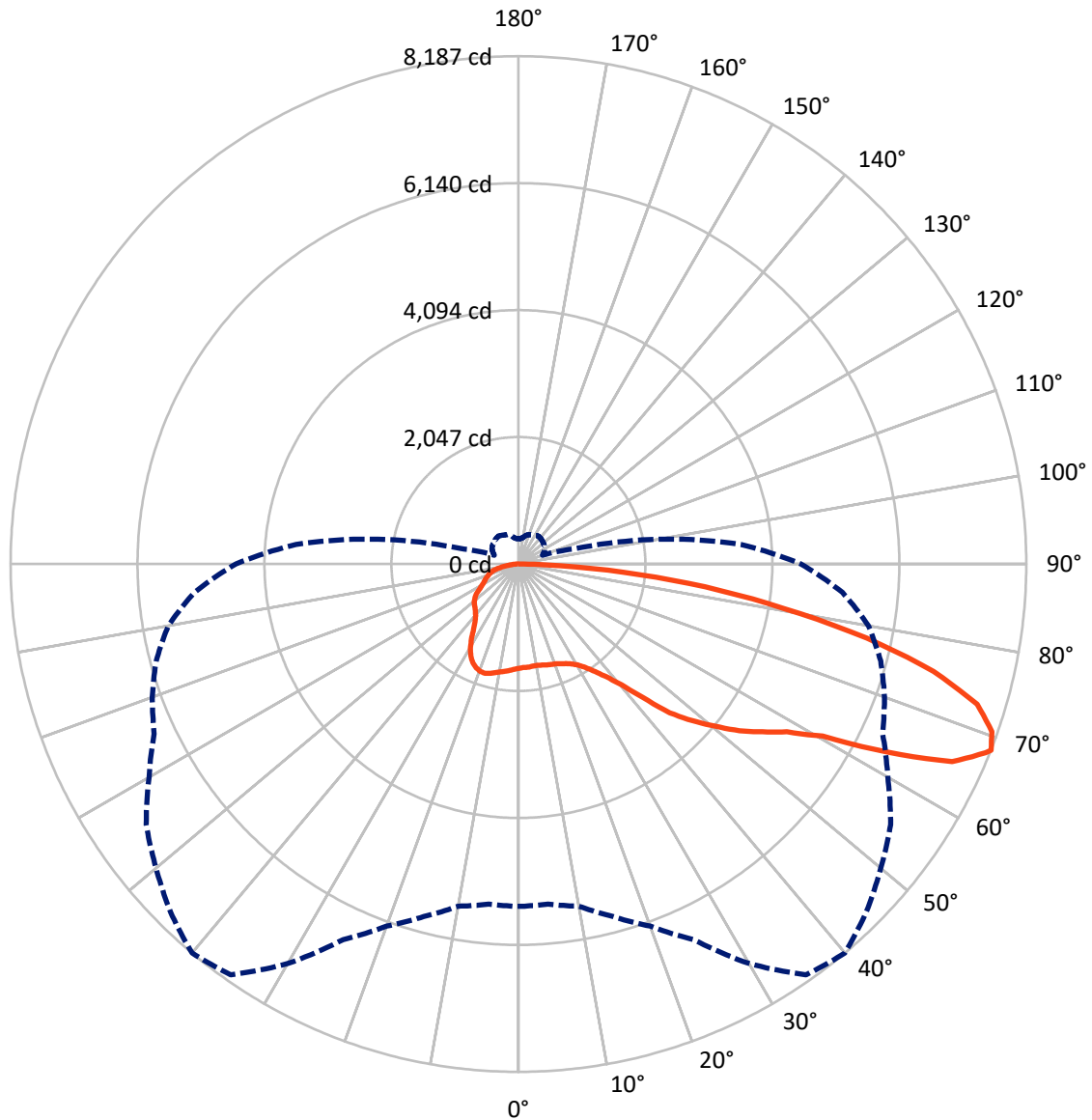
✕ Max cd  
 - - - 1/2 Max cd



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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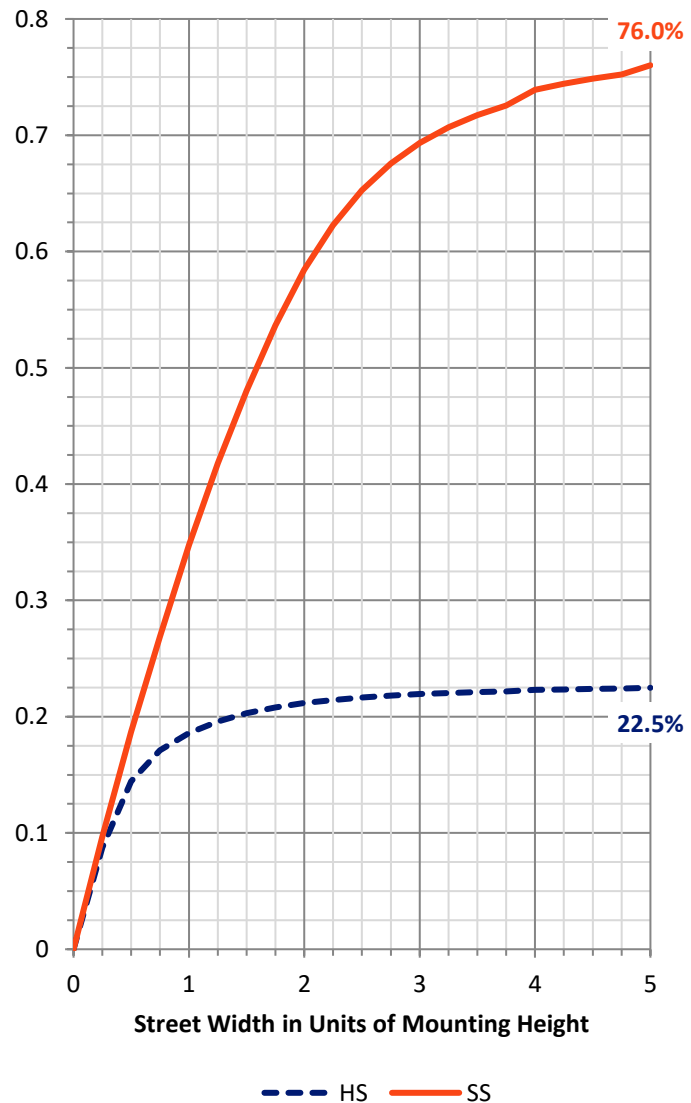
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3352.2	0.0	3352.2
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	11377.7	0.0	11377.7
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	14730.0	0.0	14730.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.5	1.1
10°-20°	498.7	3.4
20°-30°	839.4	5.7
30°-40°	1258.4	8.5
40°-50°	2061.4	14.0
50°-60°	2939.6	20.0
60°-70°	3704.1	25.1
70°-80°	2721.5	18.5
80°-90°	544.5	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°	14730.0	100.0
0°-180°	14730.0	100.0



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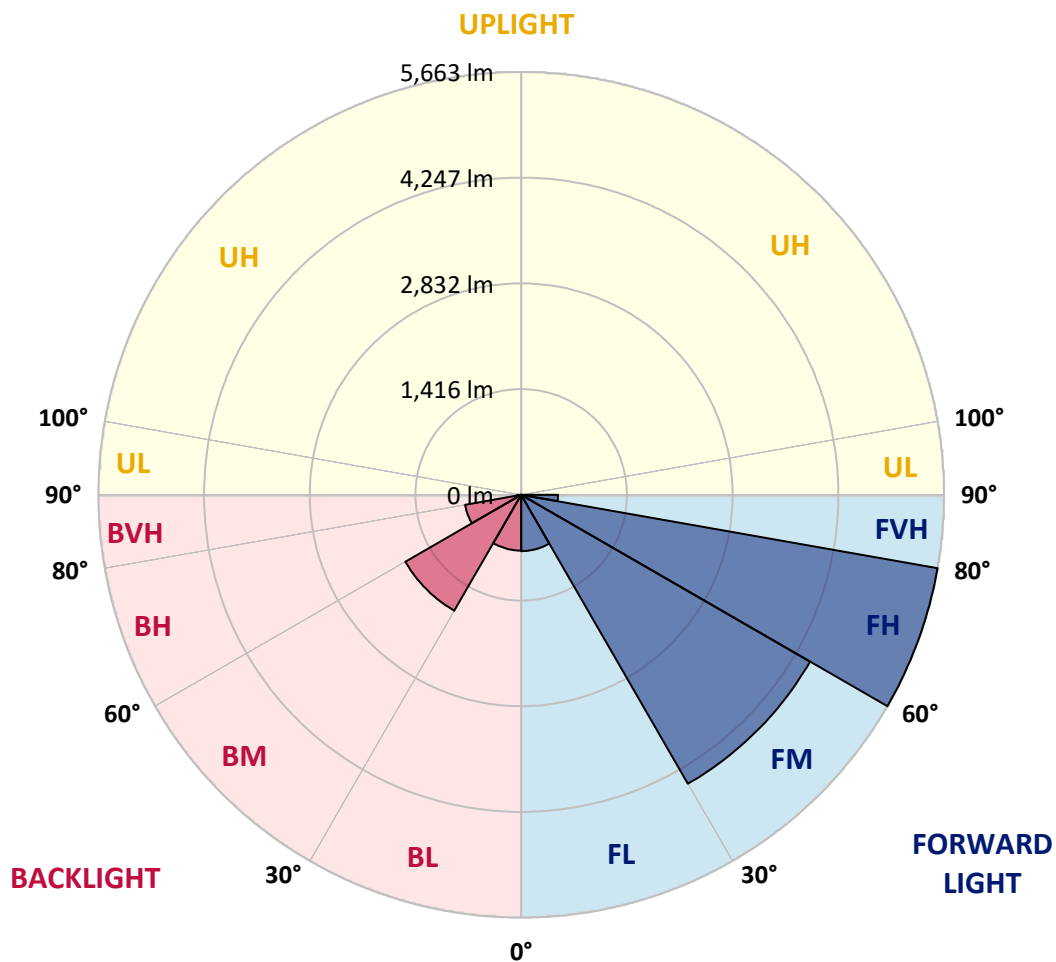
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	753.6	5.1			
FM	(30°-60°)	4467.3	30.3			
FH	(60°-80°)	5663.1	38.4			G3/7500
FVH	(80°-90°)	493.7	3.4			G3/500
BL	(0°-30°)	746.9	5.1	B2/1000		
BM	(30°-60°)	1792.1	12.2	B2/2500		
BH	(60°-80°)	762.4	5.2	B2/1000		G2/1000
BVH	(80°-90°)	50.7	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°	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7
2.5°	1688.5	1687.5	1679.7	1677.8	1671.0	1672.0	1670.0	1667.1	1668.1	1662.3	1662.3
5°	1686.5	1686.5	1678.8	1676.8	1672.9	1676.8	1675.9	1670.0	1672.0	1671.0	1670.0
7.5°	1671.0	1669.1	1660.3	1659.4	1656.5	1662.3	1664.2	1659.4	1661.3	1668.1	1670.0
10°	1657.4	1658.4	1650.6	1650.6	1648.7	1658.4	1663.2	1660.3	1662.3	1672.0	1672.9
12.5°	1636.1	1639.0	1634.1	1636.1	1637.0	1650.6	1663.2	1667.1	1672.0	1680.7	1685.6
15°	1626.4	1627.3	1624.4	1628.3	1633.2	1648.7	1664.2	1675.9	1688.5	1701.1	1708.9
17.5°	1641.9	1640.9	1636.1	1637.0	1640.0	1653.5	1672.9	1690.4	1702.1	1714.7	1729.2
20°	1646.7	1649.7	1646.7	1649.7	1654.5	1669.1	1694.3	1709.8	1718.6	1730.2	1749.6
22.5°	1676.8	1672.9	1672.0	1674.9	1673.9	1687.5	1709.8	1733.1	1747.7	1754.5	1774.8
25°	1706.9	1704.0	1704.0	1709.8	1709.8	1720.5	1741.8	1761.3	1777.7	1799.1	1826.3
27.5°	1738.9	1737.0	1737.0	1748.6	1754.5	1764.2	1785.5	1806.9	1824.3	1845.7	1884.5
30°	1803.9	1800.1	1792.3	1805.9	1808.8	1817.5	1844.7	1867.0	1889.3	1917.5	1954.4
32.5°	1916.5	1909.7	1897.1	1898.1	1893.2	1900.0	1940.8	1955.3	1986.4	2015.5	2047.5
35°	2164.9	2140.7	2112.5	2095.1	2071.8	2050.4	2076.6	2097.0	2129.0	2158.1	2199.9
37.5°	2530.8	2485.2	2443.4	2424.0	2381.3	2325.0	2306.6	2277.5	2305.6	2354.2	2404.6
40°	2938.3	2938.3	2891.8	2838.4	2769.5	2675.4	2624.9	2575.4	2557.9	2574.4	2649.2
42.5°	3326.5	3339.1	3294.5	3239.2	3180.9	3082.9	3016.0	2974.2	2939.3	2921.8	2947.1
45°	3687.5	3734.0	3705.9	3644.8	3606.9	3566.2	3544.8	3469.1	3422.6	3352.7	3328.4
47.5°	3956.3	4001.9	3971.8	3882.5	3860.2	3853.4	3852.4	3802.9	3773.8	3708.8	3669.0
50°	4235.7	4302.7	4249.3	4092.1	4105.7	4110.6	4120.3	4106.7	4109.6	4095.0	4072.7
52.5°	4674.4	4681.1	4492.9	4365.8	4340.5	4346.4	4389.1	4410.4	4465.7	4418.2	4427.9
55°	5311.9	5105.2	4866.5	4768.5	4663.7	4619.0	4625.8	4688.9	4776.2	4733.5	4739.4
57.5°	5523.4	5558.4	5570.0	5368.2	5308.0	5179.9	5152.8	5021.8	5104.2	5045.0	5064.4
60°	5967.9	6065.9	6043.6	6093.1	5967.9	5963.0	6005.7	5718.5	5636.0	5473.0	5433.2
62.5°	6464.7	6463.7	6598.6	6636.5	6687.9	6609.3	6780.1	6748.1	6682.1	6206.6	5919.4
65°	6264.8	6260.9	6349.2	6647.1	6750.0	6976.1	7227.4	7574.8	7681.6	7455.5	6991.6
67.5°	5584.6	5609.8	5718.5	6072.7	6365.7	6769.4	7384.6	8031.9	8121.2	7894.1	7581.6
68°	5519.6	5504.0	5601.1	5883.5	6211.4	6680.1	7437.0	8085.3	8187.2	7932.9	7626.3
70°	4783.0	4767.5	4948.0	5268.2	5623.4	6303.6	7504.0	8071.7	8097.9	7866.0	7588.4
72.5°	3726.3	3707.8	3877.7	4136.8	4533.6	5271.1	6930.5	7717.5	7733.0	7513.7	7289.5
75°	2707.4	2685.1	2844.2	3073.2	3402.2	4051.4	5735.0	6729.6	6915.9	6941.2	6873.3
77.5°	1868.0	1914.6	2071.8	2237.7	2530.8	3022.8	4334.7	5378.9	5740.8	5968.8	6123.1
80°	1255.7	1332.3	1453.6	1610.8	1844.7	2230.9	3224.6	4019.3	4334.7	4562.8	4674.4
82.5°	823.9	835.5	934.5	1070.3	1272.2	1582.7	2277.5	2852.0	3033.4	3062.5	2950.9
85°	432.8	466.8	527.9	613.3	739.4	926.7	1261.5	1632.2	1699.1	1686.5	1523.5
87.5°	158.2	171.8	201.8	242.6	302.8	392.0	507.5	567.7	429.9	316.3	226.1
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7
2.5°	1665.2	1657.4	1656.5	1671.0	1667.1	1667.1	1665.2	1672.0	1665.2	1665.2	1674.9
5°	1669.1	1664.2	1664.2	1679.7	1683.6	1679.7	1683.6	1683.6	1681.7	1685.6	1692.4
7.5°	1668.1	1670.0	1671.0	1680.7	1692.4	1687.5	1699.1	1692.4	1701.1	1708.9	1710.8
10°	1668.1	1679.7	1684.6	1687.5	1698.2	1699.1	1707.9	1701.1	1714.7	1725.3	1727.3
12.5°	1685.6	1700.1	1717.6	1721.5	1730.2	1742.8	1743.8	1742.8	1760.3	1768.0	1776.8
15°	1714.7	1732.1	1753.5	1763.2	1774.8	1799.1	1796.2	1806.9	1826.3	1835.0	1850.5
17.5°	1745.7	1765.1	1790.4	1808.8	1826.3	1855.4	1853.4	1873.8	1893.2	1906.8	1924.3
20°	1773.9	1800.1	1829.2	1855.4	1884.5	1912.6	1918.5	1942.7	1969.9	1991.2	2005.8
22.5°	1806.9	1836.0	1868.0	1905.8	1942.7	1969.9	1995.1	2031.0	2061.1	2082.5	2091.2
25°	1859.3	1889.3	1925.2	1978.6	2019.4	2053.3	2099.9	2144.6	2172.7	2180.5	2177.5
27.5°	1925.2	1959.2	2002.9	2072.7	2117.4	2167.8	2234.8	2273.6	2289.1	2274.6	2236.7
30°	2001.9	2048.5	2102.8	2176.6	2234.8	2316.3	2397.8	2430.8	2413.4	2357.1	2274.6
32.5°	2107.7	2172.7	2236.7	2316.3	2412.4	2526.9	2611.3	2623.0	2556.0	2441.5	2310.5
35°	2274.6	2353.2	2434.7	2541.4	2717.1	2871.4	2940.3	2899.5	2756.9	2573.5	2376.5
37.5°	2498.7	2594.8	2716.1	2873.3	3134.3	3311.0	3340.1	3246.9	3035.4	2763.7	2471.6
40°	2761.7	2891.8	3052.8	3321.6	3601.1	3761.2	3751.5	3614.7	3343.0	2983.9	2598.7
42.5°	3091.7	3235.3	3438.1	3750.5	4065.9	4178.5	4131.9	3964.0	3642.8	3218.8	2737.5
45°	3413.8	3560.3	3789.4	4139.7	4442.4	4529.8	4456.0	4265.8	3911.6	3442.0	2894.7
47.5°	3736.0	3836.9	4128.0	4510.4	4794.7	4842.2	4734.5	4493.9	4134.8	3634.1	3008.2
50°	4115.4	4193.0	4496.8	4898.5	5110.1	5119.8	5005.3	4692.8	4292.0	3750.5	3093.6
52.5°	4471.5	4601.6	4916.0	5257.6	5387.6	5343.0	5213.9	4870.4	4406.5	3870.9	3117.9
55°	4816.0	5007.2	5349.7	5572.9	5625.3	5552.6	5353.6	4997.5	4501.6	3871.8	3097.5
57.5°	5147.9	5412.8	5733.0	5878.6	5855.3	5707.8	5409.9	5026.6	4511.3	3817.5	3016.0
60°	5510.8	5785.4	6065.9	6097.9	5997.0	5794.2	5458.4	5036.3	4455.0	3704.9	2877.2
62.5°	5908.7	6121.2	6282.3	6217.3	6076.6	5864.0	5478.8	4942.2	4360.9	3512.8	2555.0
65°	6452.1	6457.9	6443.4	6308.5	6094.0	5801.9	5393.4	4884.0	4125.1	3147.9	1988.3
67.5°	7255.6	6814.1	6492.9	6291.0	6054.2	5736.9	5292.5	4602.5	3722.4	2478.4	1140.2
68°	7325.5	6876.2	6478.3	6280.3	6046.5	5730.1	5242.0	4552.1	3599.2	2298.8	960.7
70°	7341.9	6876.2	6390.0	6218.2	6015.4	5600.1	4975.2	4068.8	2940.3	1475.0	399.8
72.5°	7122.6	6622.9	6284.2	6163.9	5812.6	5158.6	4237.7	3101.4	1784.5	462.9	304.7
75°	6828.6	6321.1	5908.7	5554.5	5040.2	4119.3	3042.2	1784.5	521.1	226.1	264.9
77.5°	5956.2	5404.1	4930.5	4473.5	3690.4	2665.7	1507.0	455.1	164.0	181.5	223.2
80°	4241.6	3629.2	2941.2	2303.7	1327.5	506.5	182.4	116.4	118.4	137.8	179.5
82.5°	2331.8	1547.8	923.8	358.1	124.2	106.7	96.1	79.6	83.5	111.6	131.0
85°	1016.0	490.0	148.5	90.2	78.6	71.8	61.1	55.3	70.8	73.7	70.8
87.5°	96.1	48.5	38.8	36.9	30.1	26.2	19.4	18.4	17.5	17.5	20.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7	1680.7
2.5°	1672.9	1674.9	1682.7	1680.7	1686.5	1695.3	1696.2	1701.1	1706.9	1712.7	1720.5
5°	1700.1	1700.1	1704.0	1701.1	1705.9	1710.8	1718.6	1720.5	1728.3	1739.9	1750.6
7.5°	1720.5	1719.5	1720.5	1728.3	1734.1	1734.1	1741.8	1742.8	1750.6	1760.3	1769.0
10°	1740.9	1753.5	1749.6	1755.4	1757.4	1758.3	1762.2	1764.2	1774.8	1778.7	1785.5
12.5°	1785.5	1797.2	1790.4	1799.1	1800.1	1795.2	1789.4	1788.4	1788.4	1784.5	1781.6
15°	1850.5	1856.4	1852.5	1845.7	1840.8	1839.9	1821.4	1806.9	1794.2	1776.8	1763.2
17.5°	1923.3	1920.4	1909.7	1901.0	1881.6	1868.0	1843.7	1811.7	1782.6	1744.8	1718.6
20°	2000.9	1980.6	1974.7	1944.7	1909.7	1875.8	1836.9	1792.3	1739.9	1684.6	1640.0
22.5°	2069.8	2039.8	2012.6	1972.8	1918.5	1867.0	1806.9	1749.6	1683.6	1607.9	1543.9
25°	2134.9	2077.6	2031.0	1972.8	1902.0	1835.0	1759.3	1686.5	1600.2	1506.0	1422.6
27.5°	2170.8	2093.1	2017.4	1938.8	1858.3	1767.1	1683.6	1592.4	1490.5	1383.8	1283.8
30°	2174.6	2080.5	1981.5	1872.8	1775.8	1670.0	1572.0	1458.5	1346.9	1236.3	1160.6
32.5°	2176.6	2044.6	1912.6	1782.6	1663.2	1541.0	1428.4	1303.2	1209.1	1141.2	1083.0
35°	2178.5	2000.9	1832.1	1661.3	1525.4	1393.5	1275.1	1177.1	1110.1	1065.5	1018.9
37.5°	2199.9	1960.2	1744.8	1541.9	1391.5	1259.6	1160.6	1085.9	1040.3	1007.3	972.3
40°	2224.1	1911.7	1652.6	1429.4	1274.1	1157.7	1083.9	1037.3	1003.4	978.1	950.0
42.5°	2241.6	1827.2	1526.4	1316.8	1167.4	1076.2	1034.4	1009.2	989.8	971.4	940.3
45°	2272.6	1734.1	1384.7	1174.2	1068.4	1013.1	995.6	986.9	972.3	953.9	919.9
47.5°	2309.5	1635.1	1241.1	1054.8	979.1	970.4	969.4	961.7	941.3	921.9	886.9
50°	2328.9	1537.1	1089.7	954.9	923.8	930.6	936.4	928.7	898.6	870.4	839.4
52.5°	2389.1	1493.4	952.9	875.3	877.2	884.0	887.9	877.2	848.1	819.0	787.0
55°	2485.2	1430.4	851.0	796.7	814.2	823.9	833.6	817.1	797.7	776.3	752.0
57.5°	2350.3	1198.4	745.3	722.9	733.6	742.3	749.1	749.1	749.1	751.1	733.6
60°	1902.9	853.0	644.3	629.8	643.4	660.8	683.2	695.8	700.6	702.6	694.8
62.5°	1340.1	605.5	555.1	563.8	581.3	610.4	631.7	645.3	643.4	631.7	614.3
65°	750.1	503.6	512.4	538.6	553.1	576.4	595.8	603.6	589.0	571.6	556.0
67.5°	423.1	461.9	496.8	519.2	531.8	545.4	557.0	565.7	548.3	527.9	516.2
68°	412.4	456.1	493.0	512.4	525.0	538.6	547.3	553.1	534.7	516.2	506.5
70°	384.3	445.4	476.5	492.0	493.0	515.3	517.2	521.1	505.6	484.2	471.6
72.5°	352.3	422.1	437.6	450.3	460.9	468.7	487.1	479.4	460.0	441.5	412.4
75°	325.1	362.0	376.5	405.6	413.4	426.0	435.7	417.3	388.2	370.7	353.2
77.5°	282.4	300.8	316.3	322.2	345.5	355.2	365.8	365.8	348.4	350.3	324.1
80°	217.4	219.3	213.5	231.0	262.0	274.6	278.5	270.7	283.4	281.4	270.7
82.5°	125.2	116.4	126.2	131.0	146.5	158.2	177.6	194.1	196.0	190.2	201.8
85°	52.4	46.6	53.4	61.1	77.6	96.1	118.4	127.1	125.2	121.3	111.6
87.5°	21.3	21.3	25.2	30.1	39.8	50.5	57.3	67.0	72.8	74.7	69.9
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°	1680.7	1680.7	1680.7	1680.7
2.5°	1723.4	1722.4	1721.5	1719.5
5°	1753.5	1754.5	1754.5	1753.5
7.5°	1775.8	1780.7	1781.6	1781.6
10°	1793.3	1797.2	1798.1	1797.2
12.5°	1787.5	1788.4	1792.3	1793.3
15°	1760.3	1753.5	1751.5	1750.6
17.5°	1696.2	1678.8	1664.2	1657.4
20°	1595.3	1561.4	1533.2	1526.4
22.5°	1482.8	1430.4	1393.5	1380.9
25°	1346.9	1281.9	1242.1	1229.5
27.5°	1214.0	1149.9	1121.8	1106.2
30°	1104.3	1056.8	1025.7	1010.2
32.5°	1031.5	984.9	952.9	938.4
35°	971.4	922.8	880.1	860.7
37.5°	931.6	874.3	824.8	805.4
40°	908.3	856.9	803.5	782.1
42.5°	896.6	853.0	805.4	782.1
45°	878.2	831.6	790.9	765.6
47.5°	850.1	806.4	765.6	742.3
50°	798.6	754.0	721.0	702.6
52.5°	744.3	694.8	659.9	639.5
55°	707.4	657.9	630.8	617.2
57.5°	700.6	654.0	626.9	611.3
60°	660.8	616.2	581.3	564.8
62.5°	575.4	531.8	504.6	493.9
65°	522.1	480.3	454.1	446.4
67.5°	487.1	443.5	416.3	410.5
68°	478.4	434.7	411.4	403.7
70°	438.6	396.9	376.5	368.7
72.5°	354.2	313.4	286.3	276.6
75°	308.6	263.9	241.6	236.8
77.5°	270.7	218.3	196.0	191.2
80°	219.3	172.7	118.4	110.6
82.5°	164.0	105.8	88.3	80.5
85°	95.1	72.8	57.3	53.4
87.5°	60.2	50.5	43.7	40.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)