

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: McGRAW-EDISON

Report Number: P159650

Luminaire Tested: **VTS-E04-LED-E1-T4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159650  
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: MCGRAW-EDISON  
Catalog Number: VTS-E04-LED-E1-T4  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

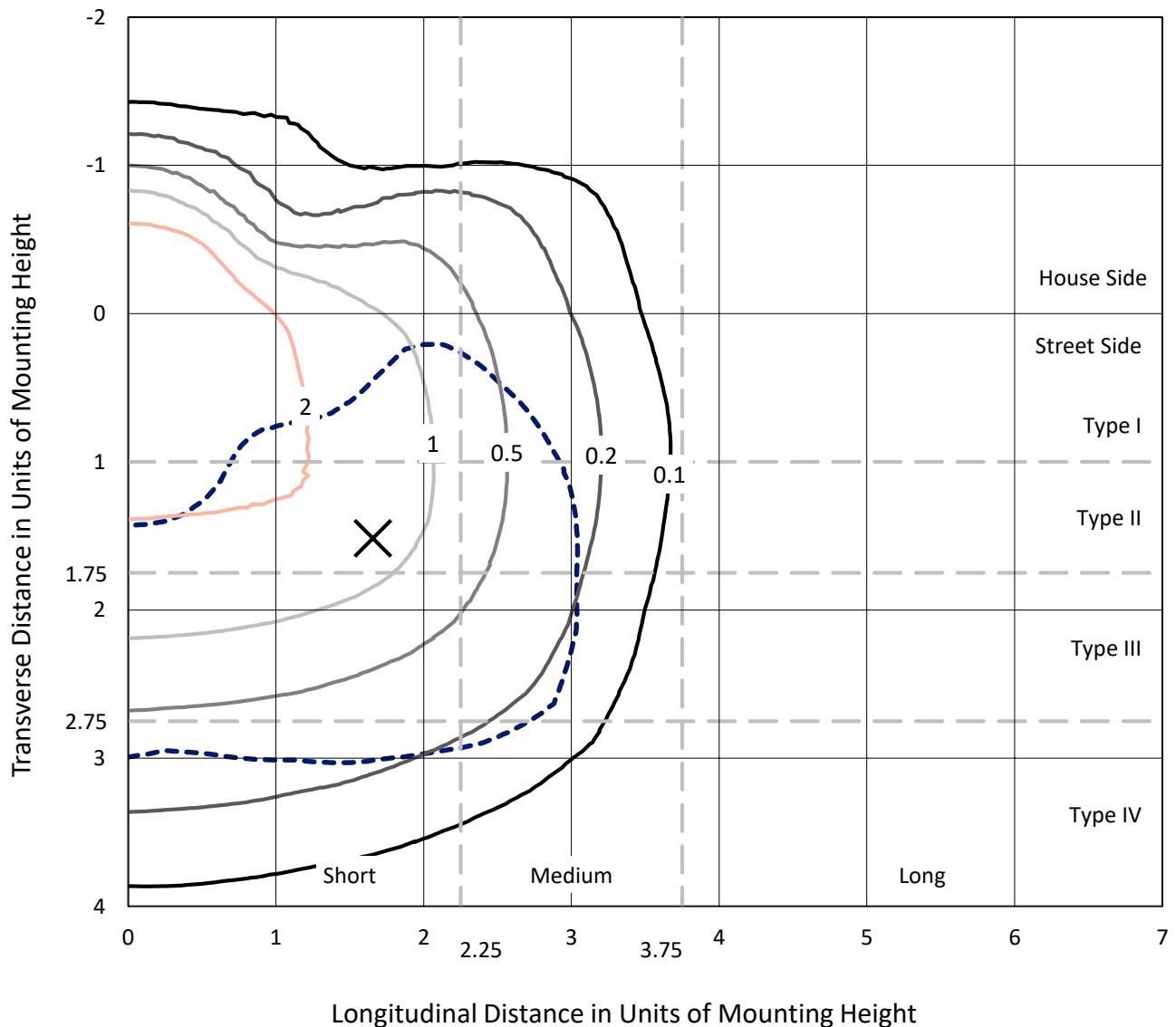
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11905.4 lumens  
Efficiency: N/A  
Efficacy: 122.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 97.2  
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: 25 FT

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### Iso-Footcandle Lines of Horizontal Illumination

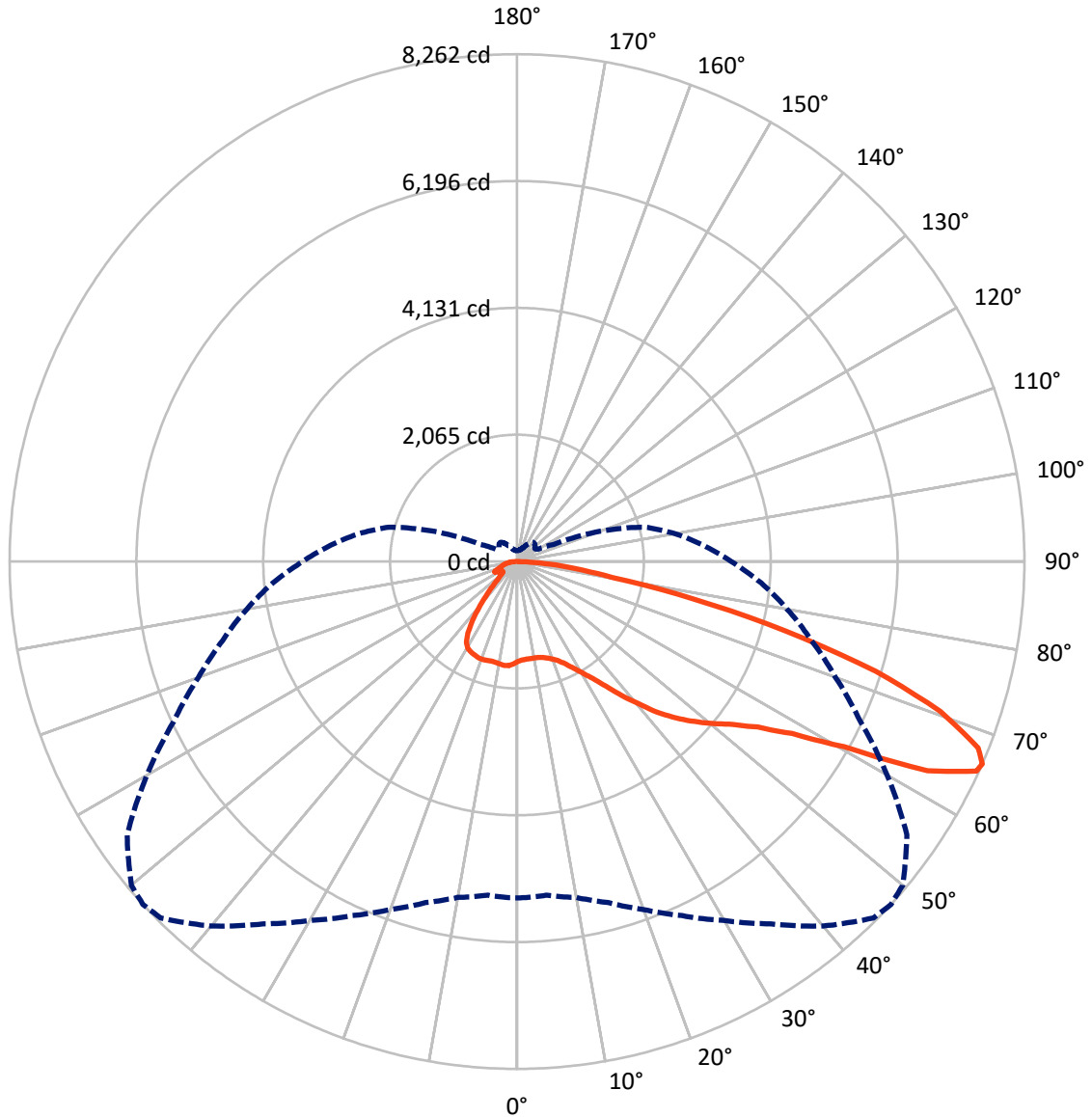
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2464.9	0.0	2464.9
	% Fixture	20.7	0.0	20.7
<b>Street Side</b>	Lumens	9440.5	0.0	9440.5
	% Fixture	79.3	0.0	79.3
<b>Total</b>	Lumens	11905.4	0.0	11905.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.0	1.3
10°-20°	470.8	4.0
20°-30°	803.3	6.7
30°-40°	1212.4	10.2
40°-50°	1575.8	13.2
50°-60°	2161.9	18.2
60°-70°	3325.7	27.9
70°-80°	1922.4	16.1
80°-90°	276.2	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°	11905.4	100.0
0°-180°	11905.4	100.0



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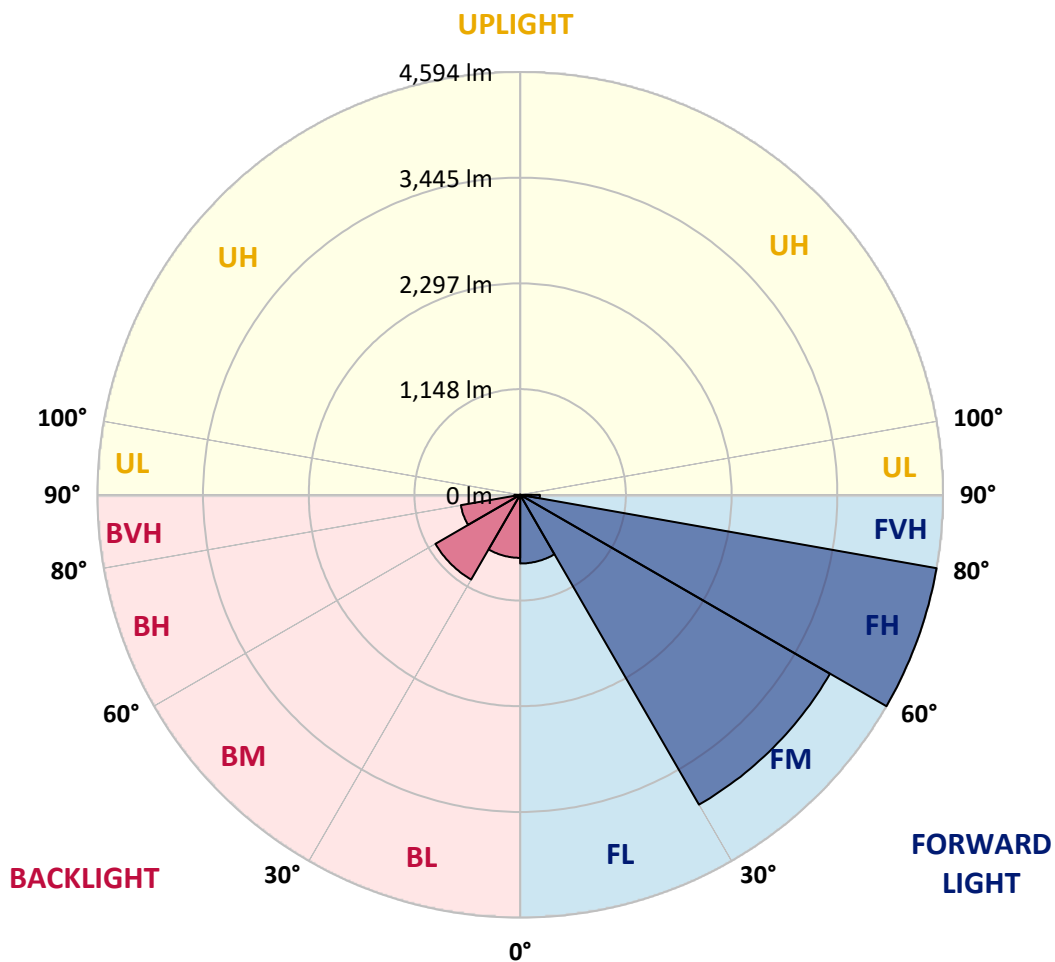
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	746.2	6.3			
FM	(30°-60°)	3886.6	32.6			
FH	(60°-80°)	4593.9	38.6			G2/5000
FVH	(80°-90°)	213.7	1.8			G2/225
BL	(0°-30°)	684.8	5.8	B2/1000		
BM	(30°-60°)	1063.5	8.9	B2/2500		
BH	(60°-80°)	654.2	5.5	B2/1000		G2/1000
BVH	(80°-90°)	62.4	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°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1587.2	1588.0	1588.8	1588.8	1591.2	1591.2	1595.2	1597.6	1598.4	1603.2	1606.4
5°	1557.6	1556.8	1557.6	1559.2	1563.2	1566.4	1574.4	1580.0	1584.8	1592.8	1596.8
7.5°	1544.8	1546.4	1548.0	1548.8	1552.0	1560.0	1567.2	1572.8	1582.4	1592.0	1596.0
10°	1561.6	1564.0	1561.6	1563.2	1563.2	1570.4	1573.6	1577.6	1584.8	1593.6	1596.0
12.5°	1600.8	1605.6	1600.8	1596.8	1593.6	1600.0	1598.4	1595.2	1599.2	1601.6	1601.6
15°	1665.6	1665.6	1662.4	1656.8	1648.8	1649.6	1642.4	1635.2	1632.0	1626.4	1622.4
17.5°	1728.8	1727.2	1720.0	1712.8	1707.2	1704.8	1694.4	1684.8	1673.6	1664.8	1655.2
20°	1790.4	1796.8	1788.0	1777.6	1768.8	1763.2	1755.2	1736.0	1722.4	1708.0	1698.4
22.5°	1896.8	1891.2	1881.6	1866.4	1857.6	1848.0	1831.2	1810.4	1789.6	1772.0	1760.0
25°	2006.4	2000.8	1987.2	1976.0	1963.2	1955.2	1936.8	1911.2	1891.2	1864.0	1848.0
27.5°	2124.0	2119.2	2103.2	2094.4	2085.6	2076.0	2060.0	2033.6	2015.2	1984.0	1967.2
30°	2256.8	2256.0	2234.4	2232.8	2220.0	2209.6	2198.4	2176.0	2157.6	2126.4	2106.4
32.5°	2398.4	2395.2	2380.0	2375.2	2384.0	2376.8	2360.8	2337.6	2313.6	2295.2	2272.8
35°	2600.0	2594.4	2585.6	2589.6	2595.2	2615.2	2590.4	2570.4	2541.6	2517.6	2486.4
37.5°	2747.2	2739.2	2749.6	2772.0	2804.0	2819.2	2840.8	2841.6	2828.0	2796.0	2768.8
40°	2882.4	2879.2	2903.2	2934.4	2993.6	3036.8	3077.6	3097.6	3102.4	3081.6	3040.8
42.5°	2996.8	3006.4	3038.4	3086.4	3169.6	3235.2	3311.2	3358.4	3388.0	3376.8	3358.4
45°	3132.8	3137.6	3176.8	3237.6	3316.8	3425.6	3525.6	3605.6	3657.6	3656.8	3636.0
47.5°	3303.2	3304.0	3337.6	3408.8	3493.6	3604.0	3730.4	3836.8	3905.6	3908.8	3892.8
50°	3505.6	3504.0	3540.8	3608.0	3698.4	3804.8	3939.2	4072.0	4168.0	4168.0	4144.8
52.5°	3766.4	3763.2	3783.2	3842.4	3929.6	4041.6	4175.2	4328.8	4432.8	4455.2	4404.8
55°	4114.4	4119.2	4124.0	4176.0	4250.4	4339.2	4492.8	4634.4	4773.6	4786.4	4756.8
57.5°	4516.8	4500.8	4535.2	4620.0	4704.8	4816.0	4924.8	5092.0	5256.8	5284.8	5280.8
60°	5145.6	5124.8	5160.0	5268.0	5361.6	5536.8	5723.2	5939.2	6134.4	6192.0	6122.4
62.5°	5724.0	5749.6	5797.6	5923.2	6059.2	6292.8	6572.8	6943.2	7313.6	7515.2	7500.8
65°	5672.0	5648.0	5740.0	5911.2	6157.6	6455.2	6803.2	7249.6	7783.2	8188.0	8224.0
66°	5479.2	5454.4	5553.6	5749.6	6031.2	6362.4	6748.8	7203.2	7748.8	8206.4	8261.6
67.5°	5160.8	5136.0	5248.0	5426.4	5716.8	6133.6	6551.2	7048.0	7615.2	8053.6	8098.4
70°	4546.4	4512.8	4600.0	4801.6	5036.8	5440.0	5837.6	6364.0	6946.4	7296.8	7313.6
72.5°	3851.2	3772.8	3865.6	4020.8	4188.8	4522.4	4868.8	5228.8	5692.8	6016.8	6109.6
75°	2794.4	2835.2	2862.4	2964.8	3076.0	3352.0	3555.2	3856.8	4216.0	4450.4	4524.8
77.5°	1482.4	1544.0	1582.4	1684.8	1868.8	2079.2	2299.2	2485.6	2721.6	2852.8	2944.0
80°	832.0	875.2	937.6	1018.4	1108.0	1269.6	1400.0	1496.0	1529.6	1552.8	1573.6
82.5°	457.6	567.2	660.0	716.0	768.8	833.6	911.2	991.2	1016.8	978.4	958.4
85°	71.2	104.8	319.2	389.6	424.0	473.6	529.6	588.8	589.6	507.2	553.6
87.5°	20.0	22.4	45.6	68.8	67.2	54.4	67.2	122.4	72.0	36.0	41.6
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°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1608.0	1609.6	1613.6	1617.6	1621.6	1625.6	1628.0	1632.0	1635.2	1640.0	1645.6
5°	1601.6	1605.6	1612.8	1621.6	1629.6	1636.8	1642.4	1650.4	1657.6	1664.0	1673.6
7.5°	1601.6	1609.6	1621.6	1631.2	1638.4	1647.2	1656.0	1664.0	1672.0	1678.4	1684.8
10°	1602.4	1610.4	1622.4	1633.6	1641.6	1651.2	1658.4	1665.6	1674.4	1678.4	1686.4
12.5°	1605.6	1608.8	1617.6	1628.8	1638.4	1648.0	1655.2	1662.4	1672.0	1673.6	1679.2
15°	1621.6	1616.8	1619.2	1627.2	1637.6	1645.6	1653.6	1659.2	1665.6	1664.0	1668.8
17.5°	1651.2	1639.2	1634.4	1635.2	1640.0	1645.6	1648.8	1649.6	1650.4	1643.2	1644.0
20°	1691.2	1674.4	1663.2	1657.6	1651.2	1645.6	1636.8	1626.4	1616.8	1602.4	1600.8
22.5°	1751.2	1726.4	1714.4	1699.2	1680.0	1656.0	1634.4	1608.8	1588.0	1566.4	1558.4
25°	1838.4	1812.8	1800.0	1776.0	1741.6	1707.2	1676.0	1641.6	1611.2	1585.6	1573.6
27.5°	1955.2	1929.6	1916.0	1891.2	1848.8	1814.4	1771.2	1734.4	1697.6	1660.0	1644.8
30°	2096.8	2074.4	2059.2	2039.2	2002.4	1964.8	1914.4	1857.6	1799.2	1739.2	1709.6
32.5°	2264.0	2239.2	2228.0	2204.8	2166.4	2127.2	2071.2	1998.4	1900.8	1806.4	1747.2
35°	2472.8	2444.8	2432.0	2401.6	2356.8	2299.2	2239.2	2141.6	2009.6	1878.4	1781.6
37.5°	2752.0	2689.6	2647.2	2577.6	2505.6	2424.8	2339.2	2239.2	2083.2	1920.8	1786.4
40°	2999.2	2936.0	2854.4	2754.4	2642.4	2531.2	2433.6	2320.0	2150.4	1951.2	1771.2
42.5°	3306.4	3194.4	3064.0	2928.8	2780.0	2643.2	2527.2	2393.6	2196.0	1959.2	1728.8
45°	3587.2	3453.6	3279.2	3099.2	2914.4	2742.4	2612.0	2463.2	2235.2	1959.2	1677.6
47.5°	3843.2	3683.2	3474.4	3250.4	3035.2	2847.2	2699.2	2534.4	2290.4	1984.0	1662.4
50°	4080.0	3896.0	3658.4	3398.4	3156.8	2956.0	2796.8	2625.6	2374.4	2048.0	1699.2
52.5°	4329.6	4134.4	3844.8	3568.8	3302.4	3087.2	2917.6	2738.4	2483.2	2148.8	1764.0
55°	4656.8	4428.0	4099.2	3795.2	3502.4	3264.8	3072.0	2873.6	2602.4	2262.4	1843.2
57.5°	5172.8	4840.8	4512.0	4116.8	3840.8	3528.0	3316.8	3088.8	2796.0	2410.4	1962.4
60°	6076.0	5668.0	5272.8	4818.4	4477.6	4150.4	3831.2	3533.6	3180.8	2744.8	2224.0
62.5°	7365.6	6951.2	6330.4	5774.4	5260.0	4826.4	4410.4	4032.0	3579.2	3102.4	2546.4
65°	8136.0	7661.6	6921.6	6174.4	5549.6	5012.0	4536.0	4072.8	3584.0	3119.2	2644.0
66°	8197.6	7748.8	6958.4	6168.8	5520.0	4962.4	4467.2	3988.0	3487.2	3042.4	2612.0
67.5°	8083.2	7696.8	6883.2	6060.0	5396.8	4794.4	4285.6	3783.2	3280.0	2868.0	2505.6
70°	7276.0	6996.8	6299.2	5528.0	4866.4	4335.2	3798.4	3315.2	2838.4	2492.0	2223.2
72.5°	5964.8	5611.2	5123.2	4604.8	4084.0	3612.8	3124.8	2713.6	2313.6	2061.6	1871.2
75°	4381.6	4063.2	3525.6	3202.4	2858.4	2562.4	2233.6	1844.0	1560.0	1433.6	1387.2
77.5°	2777.6	2432.0	1978.4	1621.6	1394.4	1198.4	944.8	751.2	601.6	626.4	693.6
80°	1403.2	1208.8	904.8	714.4	617.6	513.6	406.4	308.0	224.8	256.8	290.4
82.5°	900.8	752.0	599.2	472.0	398.4	351.2	280.8	204.0	152.0	171.2	209.6
85°	542.4	458.4	365.6	299.2	260.0	216.8	159.2	112.8	112.0	120.0	148.0
87.5°	82.4	117.6	68.0	72.8	76.8	82.4	72.8	61.6	53.6	69.6	88.0
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°	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1651.2	1652.8	1656.0	1660.0	1659.2	1664.8	1668.0	1664.8	1672.0	1672.0	1676.0
5°	1681.6	1684.0	1689.6	1693.6	1695.2	1700.0	1701.6	1700.8	1702.4	1703.2	1704.8
7.5°	1690.4	1696.8	1699.2	1701.6	1702.4	1704.0	1704.0	1702.4	1702.4	1701.6	1703.2
10°	1688.0	1690.4	1692.0	1691.2	1691.2	1689.6	1688.8	1688.0	1688.0	1686.4	1688.8
12.5°	1680.0	1680.0	1680.0	1678.4	1678.4	1677.6	1677.6	1677.6	1679.2	1680.0	1684.0
15°	1664.0	1664.0	1665.6	1664.8	1667.2	1671.2	1676.0	1679.2	1683.2	1684.0	1686.4
17.5°	1639.2	1640.0	1644.8	1655.2	1665.6	1677.6	1686.4	1688.8	1685.6	1677.6	1672.0
20°	1596.0	1606.4	1625.6	1650.4	1673.6	1688.8	1692.8	1683.2	1668.0	1647.2	1636.0
22.5°	1557.6	1578.4	1612.8	1653.6	1682.4	1692.8	1680.8	1658.4	1631.2	1607.2	1590.4
25°	1572.8	1596.8	1632.8	1668.0	1686.4	1680.8	1656.8	1624.8	1596.0	1568.0	1540.8
27.5°	1636.8	1660.8	1686.4	1696.8	1690.4	1669.6	1636.0	1601.6	1563.2	1523.2	1489.6
30°	1697.6	1711.2	1712.8	1702.4	1679.2	1645.6	1606.4	1566.4	1517.6	1469.6	1427.2
32.5°	1716.8	1700.8	1672.0	1642.4	1610.4	1576.0	1530.4	1477.6	1425.6	1371.2	1324.0
35°	1711.2	1646.4	1575.2	1512.0	1473.6	1434.4	1392.8	1322.4	1264.0	1217.6	1187.2
37.5°	1660.8	1542.4	1432.8	1340.8	1280.8	1234.4	1172.8	1114.4	1064.0	1043.2	1018.4
40°	1590.4	1409.6	1257.6	1128.8	1066.4	1007.2	938.4	893.6	879.2	860.0	860.8
42.5°	1489.6	1254.4	1058.4	910.4	842.4	777.6	728.8	702.4	703.2	687.2	690.4
45°	1383.2	1098.4	852.0	704.8	637.6	582.4	555.2	547.2	548.0	548.8	544.0
47.5°	1318.4	976.8	683.2	534.4	475.2	444.0	429.6	425.6	426.4	427.2	421.6
50°	1308.8	913.6	570.4	408.8	370.4	352.8	345.6	341.6	341.6	338.4	333.6
52.5°	1336.0	897.6	515.2	354.4	317.6	301.6	296.0	292.8	288.0	281.6	272.8
55°	1379.2	912.0	498.4	336.0	300.0	284.0	276.8	275.2	267.2	255.2	240.8
57.5°	1459.2	964.0	509.6	340.8	303.2	288.8	284.0	282.4	271.2	252.8	234.4
60°	1688.8	1115.2	565.6	368.0	326.4	314.4	314.4	312.0	296.8	270.4	244.0
62.5°	2005.6	1336.8	641.6	405.6	358.4	356.8	370.4	371.2	344.0	301.6	260.0
65°	2158.4	1440.8	668.0	413.6	367.2	385.6	412.8	412.8	374.4	316.0	262.4
66°	2159.2	1438.4	660.0	404.0	357.6	381.6	409.6	409.6	369.6	312.0	258.4
67.5°	2104.0	1393.6	633.6	386.4	336.0	358.4	383.2	382.4	346.4	296.0	247.2
70°	1887.2	1232.8	558.4	357.6	310.4	311.2	320.0	314.4	290.4	256.0	224.8
72.5°	1627.2	1031.2	484.0	339.2	290.4	275.2	268.0	263.2	248.0	227.2	208.0
75°	1248.0	800.8	421.6	322.4	272.8	246.4	236.8	232.8	222.4	210.4	195.2
77.5°	764.8	548.8	357.6	295.2	252.8	228.8	218.4	210.4	200.0	188.8	178.4
80°	329.6	331.2	286.4	250.4	220.0	192.0	178.4	168.8	163.2	159.2	153.6
82.5°	230.4	237.6	218.4	194.4	168.0	148.0	136.0	133.6	134.4	134.4	132.8
85°	172.8	169.6	152.8	139.2	127.2	114.4	104.8	104.0	107.2	107.2	104.8
87.5°	100.0	100.8	86.4	80.8	84.0	72.0	65.6	66.4	74.4	73.6	72.0
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):**

	160°	165°	170°	175°	180°
0°	1628.8	1628.8	1628.8	1628.8	1628.8
2.5°	1676.0	1678.4	1677.6	1680.0	1677.6
5°	1707.2	1706.4	1705.6	1708.8	1704.8
7.5°	1702.4	1703.2	1703.2	1703.2	1702.4
10°	1690.4	1693.6	1695.2	1698.4	1697.6
12.5°	1686.4	1691.2	1696.0	1700.8	1701.6
15°	1687.2	1690.4	1692.8	1695.2	1696.0
17.5°	1666.4	1665.6	1663.2	1661.6	1660.0
20°	1624.0	1620.0	1616.0	1609.6	1612.8
22.5°	1571.2	1560.0	1547.2	1536.8	1536.0
25°	1509.6	1488.8	1468.0	1454.4	1449.6
27.5°	1455.2	1430.4	1408.8	1396.8	1393.6
30°	1390.4	1368.0	1348.8	1338.4	1332.0
32.5°	1294.4	1276.8	1252.8	1244.8	1244.0
35°	1160.8	1147.2	1130.4	1127.2	1123.2
37.5°	1009.6	1004.8	996.8	987.2	985.6
40°	848.0	851.2	848.8	843.2	834.4
42.5°	692.0	697.6	698.4	702.4	706.4
45°	551.2	556.0	556.0	560.0	564.8
47.5°	423.2	420.0	422.4	426.4	428.8
50°	320.0	317.6	313.6	310.4	307.2
52.5°	257.6	252.8	241.6	238.4	235.2
55°	227.2	218.4	210.4	207.2	207.2
57.5°	218.4	207.2	198.4	194.4	192.8
60°	220.0	204.0	192.8	186.4	184.0
62.5°	227.2	204.8	189.6	182.4	180.0
65°	226.4	203.2	188.8	180.8	178.4
66°	222.4	200.8	187.2	180.0	178.4
67.5°	216.0	197.6	185.6	179.2	176.8
70°	203.2	191.2	182.4	176.8	174.4
72.5°	192.8	184.8	176.8	170.4	168.8
75°	183.2	175.2	168.0	164.8	162.4
77.5°	168.8	161.6	157.6	154.4	152.8
80°	149.6	144.8	140.0	136.8	134.4
82.5°	130.4	124.0	119.2	116.8	115.2
85°	106.4	102.4	95.2	90.4	89.6
87.5°	71.2	67.2	64.8	60.8	56.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)