

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: P158540

Luminaire Tested: **VTS-E03-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158540
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33714)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-E03-LED-E1-SL4
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

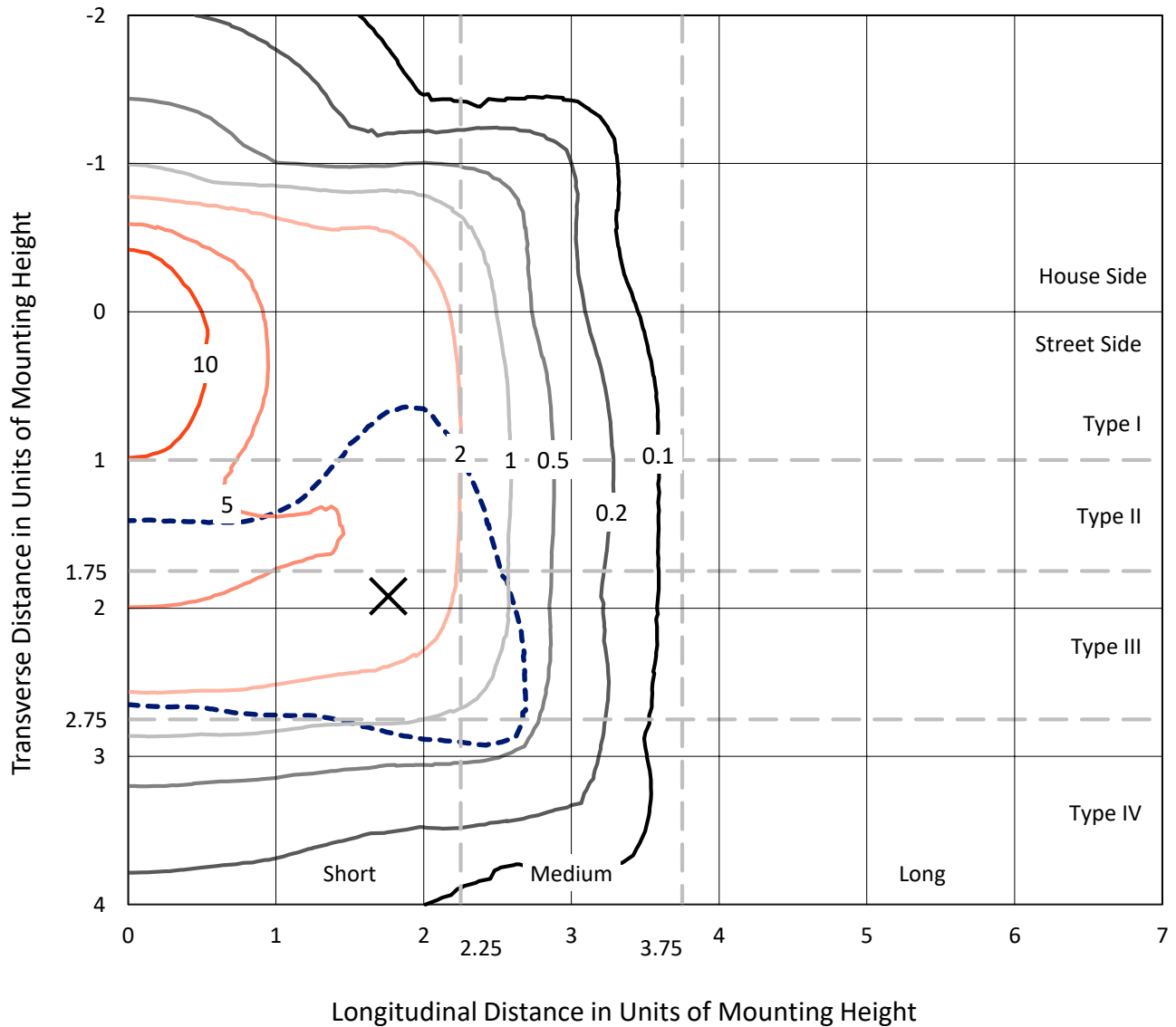
Lumens per Lamp: N/A
Luminaire Lumens: 8702.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

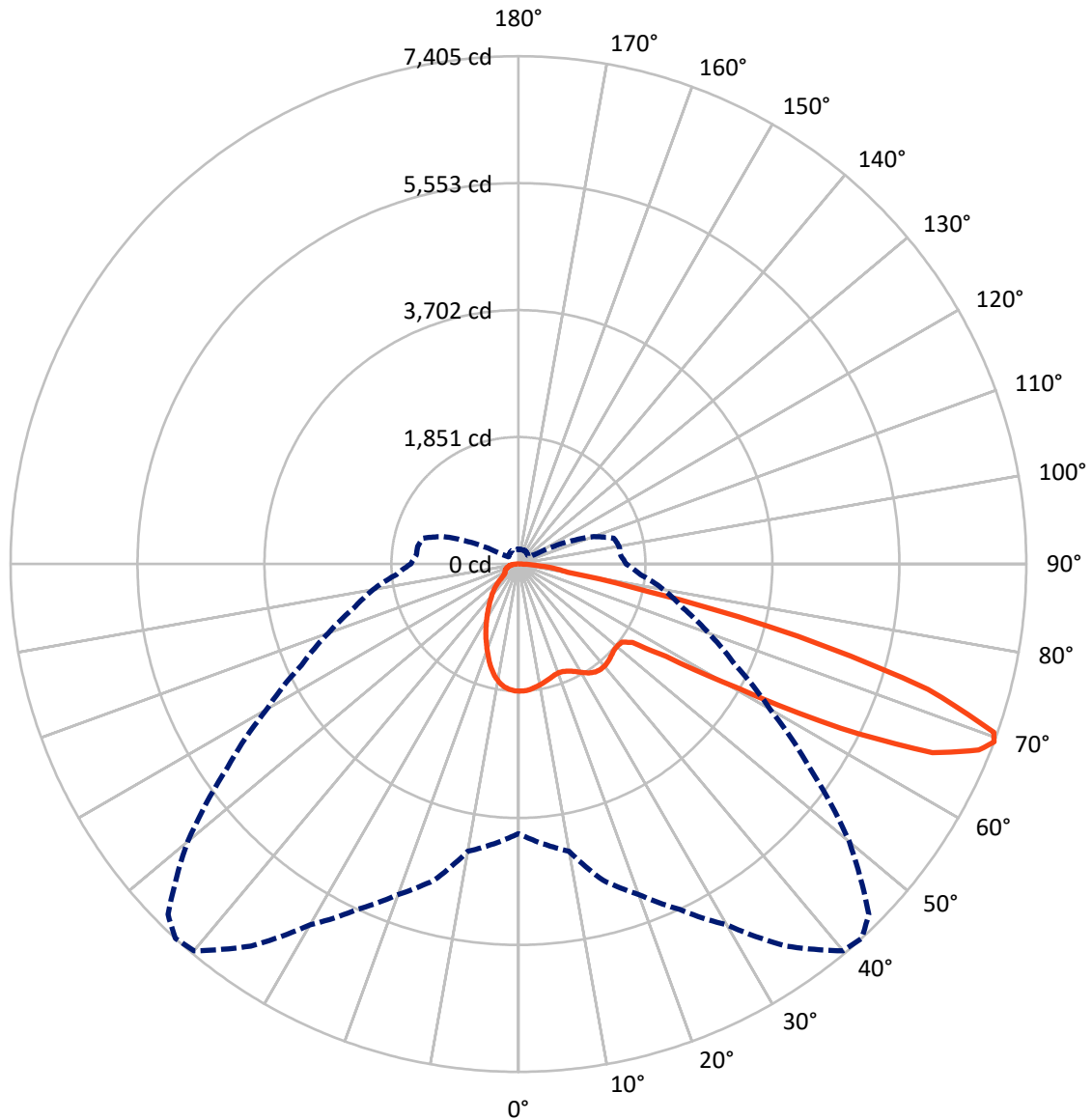
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 42.5-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1934.8	0.0	1934.8
	% Fixture	22.2	0.0	22.2
Street Side	Lumens	6768.0	0.0	6768.0
	% Fixture	77.8	0.0	77.8
Total	Lumens	8702.8	0.0	8702.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.5	2.0
10°-20°	465.0	5.3
20°-30°	678.0	7.8
30°-40°	864.4	9.9
40°-50°	1005.7	11.6
50°-60°	1530.2	17.6
60°-70°	2703.1	31.1
70°-80°	1115.4	12.8
80°-90°	168.4	1.9
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°	8702.8	100.0
0°-180°	8702.8	100.0



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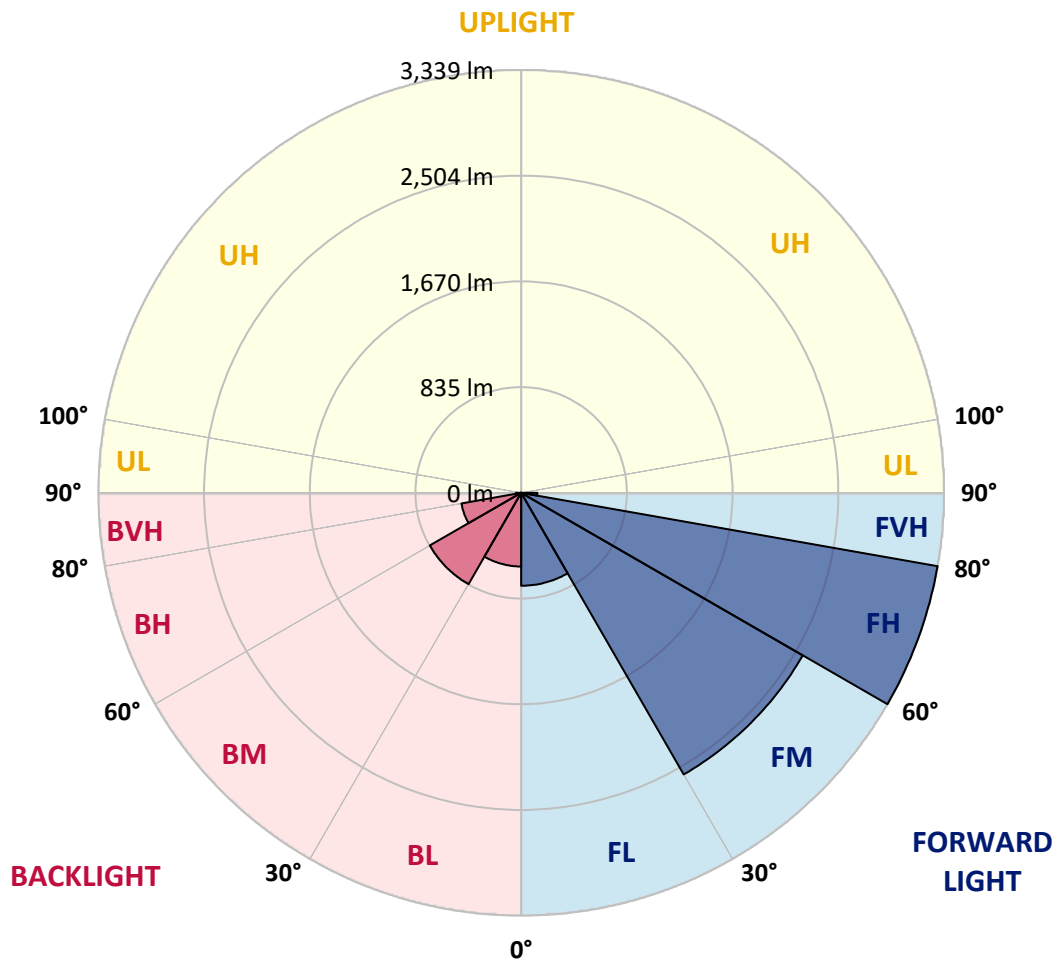
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.9	8.4			
FM (30°-60°)	2567.6	29.5			
FH (60°-80°)	3339.3	38.4			G2/5000
FVH (80°-90°)	127.4	1.5			G2/225
BL (0°-30°)	581.7	6.7	B2/1000		
BM (30°-60°)	832.8	9.6	B1/1000		
BH (60°-80°)	479.2	5.5	B1/500		G1/500
BVH (80°-90°)	41.1	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°	42.5°	45°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1847.4	1854.0	1851.6	1851.6	1853.4	1850.4	1850.4	1851.6	1848.6	1850.4	1849.8
5°	1840.8	1844.4	1843.2	1843.2	1843.2	1840.8	1839.6	1839.0	1834.8	1834.8	1833.0
7.5°	1826.4	1827.6	1829.4	1827.0	1826.4	1825.8	1821.6	1819.2	1814.4	1810.2	1811.4
10°	1807.2	1806.6	1809.6	1807.8	1805.4	1803.6	1800.0	1795.8	1790.4	1785.0	1784.4
12.5°	1785.6	1785.0	1787.4	1786.2	1784.4	1780.8	1777.8	1770.6	1762.2	1755.6	1755.0
15°	1771.8	1770.0	1772.4	1770.0	1767.0	1763.4	1758.0	1749.0	1734.0	1727.4	1722.0
17.5°	1785.0	1782.0	1783.2	1780.2	1776.0	1766.4	1753.8	1734.6	1713.0	1701.6	1693.2
20°	1831.2	1825.8	1827.0	1824.0	1814.4	1801.8	1777.8	1744.2	1707.6	1689.0	1675.8
22.5°	1897.2	1893.0	1894.8	1891.8	1882.2	1863.0	1827.0	1779.0	1726.8	1699.8	1678.8
25°	1997.4	2001.0	2002.2	1988.4	1983.0	1947.6	1897.8	1831.2	1761.6	1729.8	1701.0
27.5°	2110.2	2110.2	2115.6	2110.2	2099.4	2058.0	1987.8	1907.4	1818.0	1774.8	1740.0
30°	2220.0	2218.8	2229.0	2227.8	2210.4	2163.6	2083.8	1986.0	1884.0	1835.4	1791.0
32.5°	2336.4	2340.0	2346.6	2344.2	2321.4	2256.6	2160.6	2054.4	1947.0	1893.6	1843.8
35°	2462.4	2464.2	2466.6	2465.4	2419.2	2337.6	2217.0	2098.2	1986.6	1933.8	1882.2
37.5°	2588.4	2586.6	2583.6	2557.8	2505.0	2391.6	2251.2	2123.4	2006.4	1949.4	1896.0
40°	2701.2	2691.0	2681.4	2641.2	2560.2	2422.2	2264.4	2129.4	2004.6	1945.8	1893.6
42.5°	2763.0	2751.6	2731.8	2681.4	2583.0	2425.2	2255.4	2111.4	1986.0	1927.8	1876.2
45°	2774.4	2766.0	2746.8	2690.4	2577.6	2406.0	2227.8	2082.0	1958.4	1900.2	1851.6
47.5°	2747.4	2740.8	2722.2	2666.4	2554.2	2377.2	2196.0	2050.8	1931.4	1876.8	1830.0
50°	2706.0	2700.0	2685.6	2634.6	2527.8	2357.4	2179.8	2034.6	1922.4	1872.6	1829.4
52.5°	2773.2	2778.0	2736.0	2680.2	2556.0	2374.8	2197.8	2051.4	1938.6	1889.4	1844.4
55°	3817.8	3811.2	3558.6	3346.8	2968.2	2625.0	2368.8	2184.6	2064.0	2014.8	1972.8
57.5°	4960.8	4938.0	4834.2	4636.2	4229.4	3686.4	3192.6	2772.6	2607.0	2536.2	2541.0
60°	5334.0	5342.4	5320.2	5250.0	5104.2	4821.6	4446.0	4130.4	3819.6	3667.8	3685.2
62.5°	5541.0	5556.0	5575.2	5559.6	5512.2	5446.8	5399.4	5428.2	5385.0	5275.8	5188.8
65°	5569.8	5600.4	5664.0	5714.4	5739.0	5800.8	5946.0	6294.0	6612.0	6633.0	6480.0
67.5°	4999.8	5084.4	5222.4	5455.8	5655.6	5875.2	6225.6	6754.8	7224.0	7239.6	7096.8
69°	3931.2	4093.8	4255.2	4776.6	5127.6	5557.8	6076.2	6799.2	7361.4	7404.6	7224.6
70°	3150.0	3246.6	3385.8	3909.6	4434.0	4982.4	5733.6	6652.8	7267.2	7354.2	7155.6
72.5°	1891.2	1928.4	1976.4	2164.2	2434.2	2922.6	3918.6	5424.0	6130.2	6246.6	5994.0
75°	1222.8	1220.4	1224.6	1276.8	1292.4	1386.0	1699.8	2790.6	3999.0	4210.2	3907.8
77.5°	921.0	929.4	916.2	921.0	916.8	942.0	951.6	999.0	1578.6	1944.6	1738.8
80°	813.0	817.2	817.8	815.4	786.0	783.6	799.2	772.2	717.6	728.4	697.8
82.5°	463.8	463.2	468.6	509.4	526.2	581.4	604.2	616.8	569.4	534.0	483.0
85°	300.6	303.0	309.0	321.6	309.0	313.8	308.4	319.2	292.8	271.8	243.0
87.5°	123.0	123.0	130.8	142.2	132.6	130.2	111.6	110.4	93.6	84.6	66.0
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1846.2	1849.8	1848.0	1850.4	1848.6	1848.6	1846.2	1845.6	1847.4	1845.0	1845.6
5°	1830.0	1830.6	1827.6	1828.8	1825.2	1824.0	1822.2	1817.4	1820.4	1817.4	1818.6
7.5°	1806.6	1804.8	1800.6	1794.6	1790.4	1788.6	1785.0	1778.4	1779.6	1774.2	1777.2
10°	1776.6	1770.6	1763.4	1754.4	1748.4	1743.0	1735.2	1727.4	1723.2	1718.4	1717.8
12.5°	1743.0	1735.8	1726.2	1712.4	1699.2	1690.2	1678.2	1664.4	1660.2	1652.4	1648.2
15°	1706.4	1695.0	1683.6	1668.0	1653.6	1639.8	1623.6	1606.2	1594.8	1582.8	1573.8
17.5°	1673.4	1660.2	1645.2	1630.2	1614.6	1597.8	1577.4	1555.8	1539.0	1516.8	1498.8
20°	1647.6	1630.8	1615.8	1600.2	1582.8	1562.4	1537.8	1510.2	1482.0	1457.4	1436.4
22.5°	1637.4	1611.0	1593.0	1577.4	1560.0	1536.0	1506.0	1473.6	1439.4	1405.2	1377.6
25°	1645.8	1606.8	1578.6	1560.0	1545.0	1520.4	1486.8	1447.2	1407.6	1366.8	1329.6
27.5°	1670.4	1620.6	1579.8	1550.4	1533.0	1508.4	1473.0	1431.0	1384.2	1338.6	1293.0
30°	1708.8	1644.0	1592.4	1551.0	1524.0	1495.8	1458.6	1410.0	1362.6	1310.4	1260.6
32.5°	1746.0	1668.6	1606.8	1553.4	1512.0	1475.4	1434.0	1386.0	1335.0	1280.4	1228.8
35°	1772.4	1684.8	1612.2	1548.0	1493.4	1447.8	1403.4	1355.4	1305.6	1249.8	1197.0
37.5°	1785.0	1693.8	1612.8	1533.6	1468.8	1418.4	1371.0	1323.6	1276.8	1224.0	1174.2
40°	1784.4	1693.2	1604.4	1515.0	1439.4	1386.0	1339.2	1293.0	1249.2	1203.0	1158.0
42.5°	1771.2	1683.6	1592.4	1497.0	1418.4	1359.0	1310.4	1266.0	1228.8	1188.0	1150.2
45°	1750.8	1667.4	1579.8	1488.6	1412.4	1353.0	1301.4	1258.2	1225.2	1188.0	1155.6
47.5°	1735.2	1658.4	1581.6	1503.6	1431.0	1369.2	1314.6	1267.2	1239.0	1209.0	1186.2
50°	1737.6	1662.6	1587.6	1512.6	1444.2	1381.8	1329.0	1285.8	1265.4	1257.6	1252.2
52.5°	1750.2	1669.2	1605.6	1560.6	1537.2	1490.4	1459.2	1432.2	1447.2	1417.8	1383.0
55°	1911.0	1884.6	1946.4	2004.6	2078.4	2106.0	2079.6	2074.8	2098.8	1999.2	1770.6
57.5°	2575.2	2643.6	2739.0	2789.4	2850.6	2834.4	2773.2	2722.2	2662.2	2545.8	2260.8
60°	3705.0	3653.4	3610.2	3488.4	3388.8	3272.4	3142.8	3031.8	2925.6	2758.2	2449.8
62.5°	4869.0	4510.8	4211.4	3922.2	3689.4	3496.2	3308.4	3141.6	2980.8	2747.4	2415.6
65°	5875.8	5121.6	4559.4	4135.2	3795.0	3501.6	3260.4	3030.0	2825.4	2551.8	2223.6
67.5°	6328.2	5383.2	4565.4	3957.6	3486.6	3088.2	2776.2	2428.2	2199.0	2023.8	1839.0
69°	6294.6	5183.4	4239.6	3491.4	2950.2	2485.8	2151.0	1788.0	1568.4	1494.0	1489.8
70°	6135.0	4845.0	3859.2	3112.8	2493.6	2032.2	1711.2	1385.4	1180.8	1129.8	1220.4
72.5°	5008.8	3423.6	2418.6	1846.8	1420.2	1122.6	915.6	726.6	580.2	502.8	519.6
75°	2829.0	1585.2	1024.8	774.6	654.6	541.2	464.4	396.0	358.2	291.0	230.4
77.5°	1028.4	680.4	541.2	468.0	331.8	228.6	191.4	167.4	151.8	151.8	144.6
80°	650.4	512.4	357.6	244.8	181.2	157.8	138.0	121.2	111.6	109.2	111.6
82.5°	406.2	313.8	200.4	153.6	129.0	115.8	100.8	88.2	80.4	78.6	82.2
85°	200.4	155.4	121.8	108.6	102.0	94.8	83.4	71.4	69.0	73.8	86.4
87.5°	60.0	53.4	43.8	45.6	48.0	46.8	37.2	32.4	30.6	40.2	63.0
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°	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1846.8	1846.2	1847.4	1845.6	1846.8	1847.4	1846.2	1851.6	1848.0	1848.6	1851.0
5°	1819.8	1818.6	1823.4	1822.2	1824.6	1827.0	1825.8	1833.6	1830.6	1833.0	1837.8
7.5°	1774.8	1777.2	1777.8	1777.8	1782.6	1790.4	1792.2	1797.0	1797.0	1803.6	1808.4
10°	1714.8	1715.4	1719.0	1718.4	1724.4	1732.8	1734.0	1742.4	1745.4	1756.2	1762.8
12.5°	1645.2	1642.2	1641.6	1641.0	1648.8	1657.8	1659.0	1673.4	1679.4	1689.0	1699.8
15°	1567.2	1559.4	1557.0	1561.8	1560.0	1565.4	1570.8	1578.6	1587.0	1606.2	1615.8
17.5°	1491.0	1475.4	1471.2	1465.8	1460.4	1460.4	1462.8	1472.4	1489.8	1500.0	1521.6
20°	1413.0	1394.4	1379.4	1365.0	1352.4	1347.6	1348.2	1360.2	1372.8	1389.6	1410.0
22.5°	1347.6	1319.4	1293.6	1274.4	1248.6	1248.0	1244.4	1248.0	1261.8	1266.0	1277.4
25°	1291.2	1253.4	1218.6	1187.4	1162.2	1149.0	1145.4	1144.2	1137.6	1135.8	1127.4
27.5°	1247.4	1201.8	1156.8	1119.0	1087.8	1069.8	1047.0	1030.8	1007.4	1001.4	986.4
30°	1211.4	1162.2	1113.0	1063.8	1028.4	996.0	957.6	929.4	893.4	870.0	849.6
32.5°	1176.6	1126.8	1077.0	1028.4	973.8	923.4	873.0	829.2	789.0	753.0	723.0
35°	1147.8	1100.4	1050.0	991.2	921.6	849.0	788.4	738.6	683.4	645.6	607.8
37.5°	1129.2	1086.0	1035.6	954.6	865.2	787.2	718.2	657.6	601.2	544.2	501.6
40°	1120.8	1083.0	1020.0	921.0	816.0	729.6	653.4	586.2	514.2	450.0	404.4
42.5°	1120.2	1081.8	998.4	883.8	775.2	681.0	596.4	516.0	436.2	370.2	325.2
45°	1131.0	1080.0	975.6	852.6	739.2	640.8	540.0	442.2	352.8	303.6	279.6
47.5°	1159.8	1083.0	957.0	823.8	705.0	592.2	475.2	361.2	287.4	264.6	264.6
50°	1211.4	1100.4	952.2	803.4	670.8	535.8	396.0	291.6	254.4	254.4	261.6
52.5°	1290.6	1137.0	960.6	789.0	628.2	461.4	312.0	251.4	244.2	250.8	260.4
55°	1473.0	1201.8	972.0	764.4	563.4	366.0	257.4	237.6	240.6	248.4	257.4
57.5°	1807.8	1340.4	984.0	710.4	459.0	282.0	233.4	232.2	237.6	244.8	252.6
60°	2028.0	1516.8	1014.6	628.8	347.4	232.8	221.4	228.6	235.2	241.2	247.2
62.5°	2028.0	1566.6	1037.4	537.6	261.0	211.8	213.6	225.0	232.8	235.8	239.4
65°	1898.4	1475.4	960.0	438.0	212.4	199.8	206.4	217.8	225.0	227.4	230.4
67.5°	1659.0	1303.2	808.8	330.0	189.6	189.6	198.0	206.4	212.4	217.2	222.0
69°	1442.4	1169.4	712.2	279.6	180.6	181.8	190.2	197.4	204.6	210.6	216.6
70°	1286.4	1069.2	645.0	253.8	175.2	175.8	184.2	192.0	198.6	205.2	212.4
72.5°	688.8	738.6	490.2	208.2	161.4	163.2	171.0	178.2	184.2	190.8	197.4
75°	234.6	317.4	312.0	170.4	145.8	150.6	155.4	162.0	169.8	174.0	177.6
77.5°	137.4	142.2	166.2	138.6	131.4	133.8	139.2	144.6	151.2	155.4	158.4
80°	115.2	114.6	115.2	112.8	114.6	120.0	123.6	130.8	136.8	138.0	137.4
82.5°	93.6	98.4	99.0	97.8	103.2	107.4	110.4	114.6	114.0	115.2	117.6
85°	83.4	82.8	87.0	87.6	87.6	84.6	85.2	85.2	85.2	87.0	87.6
87.5°	83.4	69.6	54.0	48.6	51.0	48.0	45.6	45.0	49.8	54.6	53.4
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°	1853.4	1853.4	1853.4	1853.4	1853.4
2.5°	1852.2	1854.0	1852.8	1852.8	1854.0
5°	1839.6	1842.6	1841.4	1842.6	1842.6
7.5°	1810.8	1815.0	1818.0	1821.0	1819.2
10°	1769.4	1776.6	1781.4	1785.0	1783.2
12.5°	1707.6	1714.2	1724.4	1730.4	1725.6
15°	1623.0	1641.6	1647.6	1656.0	1651.2
17.5°	1534.8	1546.2	1553.4	1561.2	1566.0
20°	1417.2	1426.2	1435.8	1439.4	1434.0
22.5°	1275.6	1280.4	1278.6	1284.0	1273.2
25°	1120.2	1123.2	1121.4	1126.2	1117.2
27.5°	973.2	972.6	973.2	967.2	961.2
30°	831.6	826.2	823.8	814.8	813.0
32.5°	705.0	686.4	676.8	663.6	660.6
35°	578.4	552.0	534.6	519.6	513.0
37.5°	465.0	433.2	412.8	399.6	397.8
40°	367.8	338.4	324.0	316.8	315.6
42.5°	300.0	287.4	283.8	283.8	283.8
45°	273.6	273.0	276.0	278.4	279.0
47.5°	268.2	271.8	276.0	279.6	280.8
50°	268.2	271.8	274.8	278.4	279.6
52.5°	267.0	270.0	271.2	273.6	274.8
55°	263.4	265.2	265.2	266.4	267.6
57.5°	257.4	258.6	256.8	258.0	261.0
60°	251.4	252.6	249.6	252.6	254.4
62.5°	244.8	245.4	244.2	246.6	246.6
65°	234.0	232.8	234.6	236.4	237.0
67.5°	223.2	220.2	222.0	222.6	223.8
69°	214.8	213.0	213.6	214.8	216.0
70°	208.8	207.6	208.8	210.6	212.4
72.5°	193.8	194.4	198.6	202.2	205.8
75°	180.0	184.2	189.6	197.4	201.6
77.5°	163.2	166.2	170.4	178.8	186.6
80°	141.0	142.8	143.4	146.4	145.8
82.5°	114.6	112.8	111.6	110.4	109.8
85°	82.2	81.6	76.8	73.2	73.2
87.5°	49.2	46.8	44.4	41.4	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)