

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: P158329

Luminaire Tested: **VTS-E04-LED-E1-SL3-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158329  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33713)  
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-SL3-7030  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

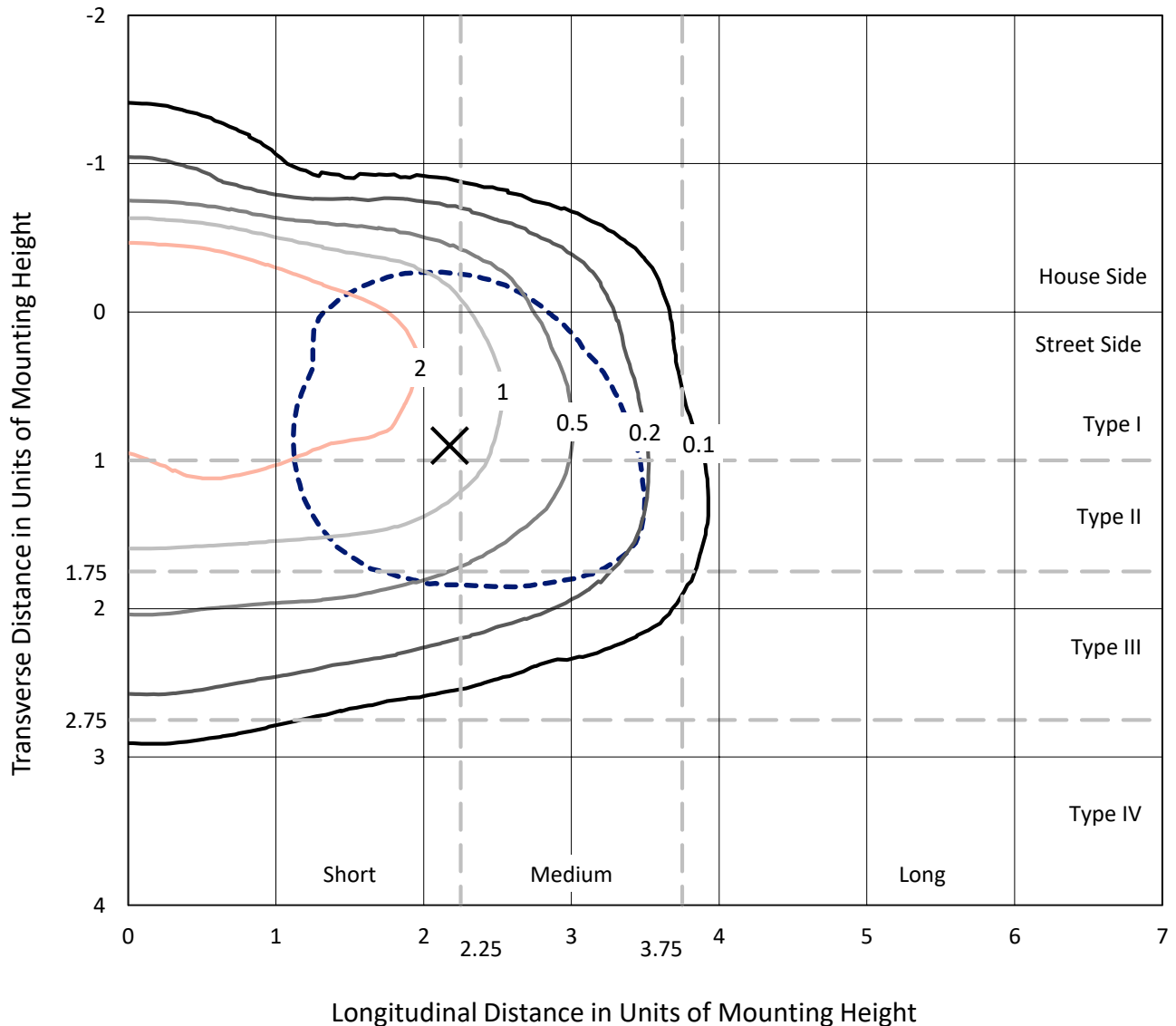
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11021.8 lumens  
Efficiency: N/A  
Efficacy: 113.4 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type III - 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

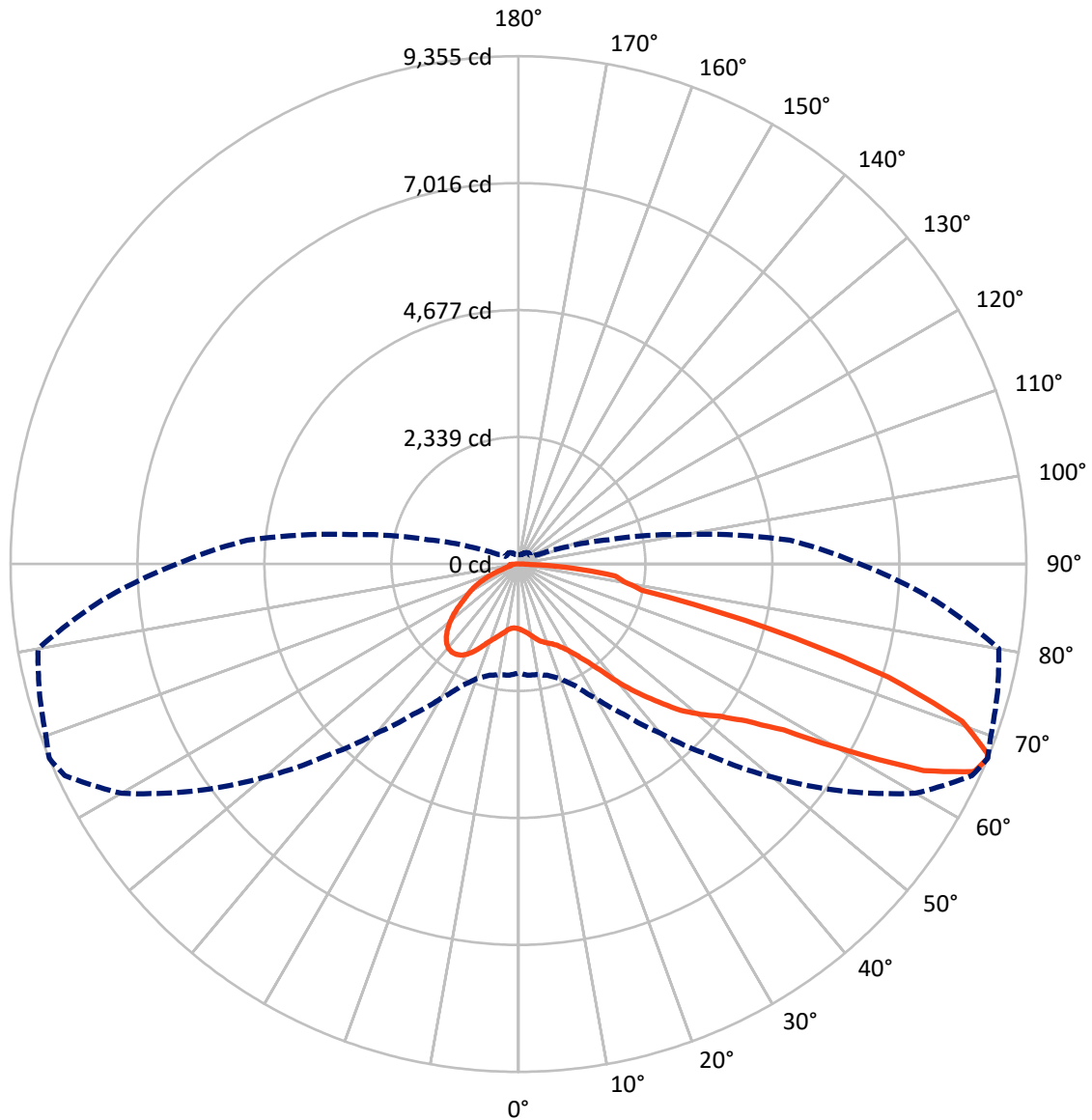
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral      - - - Horizontal Cone Through 67-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2644.2	0.0	2644.2
	% Fixture	24.0	0.0	24.0
<b>Street Side</b>	Lumens	8377.7	0.0	8377.7
	% Fixture	76.0	0.0	76.0
<b>Total</b>	Lumens	11021.8	0.0	11021.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	1.1
10°-20°	404.5	3.7
20°-30°	722.2	6.6
30°-40°	1058.4	9.6
40°-50°	1635.4	14.8
50°-60°	2381.5	21.6
60°-70°	3102.3	28.1
70°-80°	1388.7	12.6
80°-90°	210.0	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°	11021.8	100.0
0°-180°	11021.8	100.0



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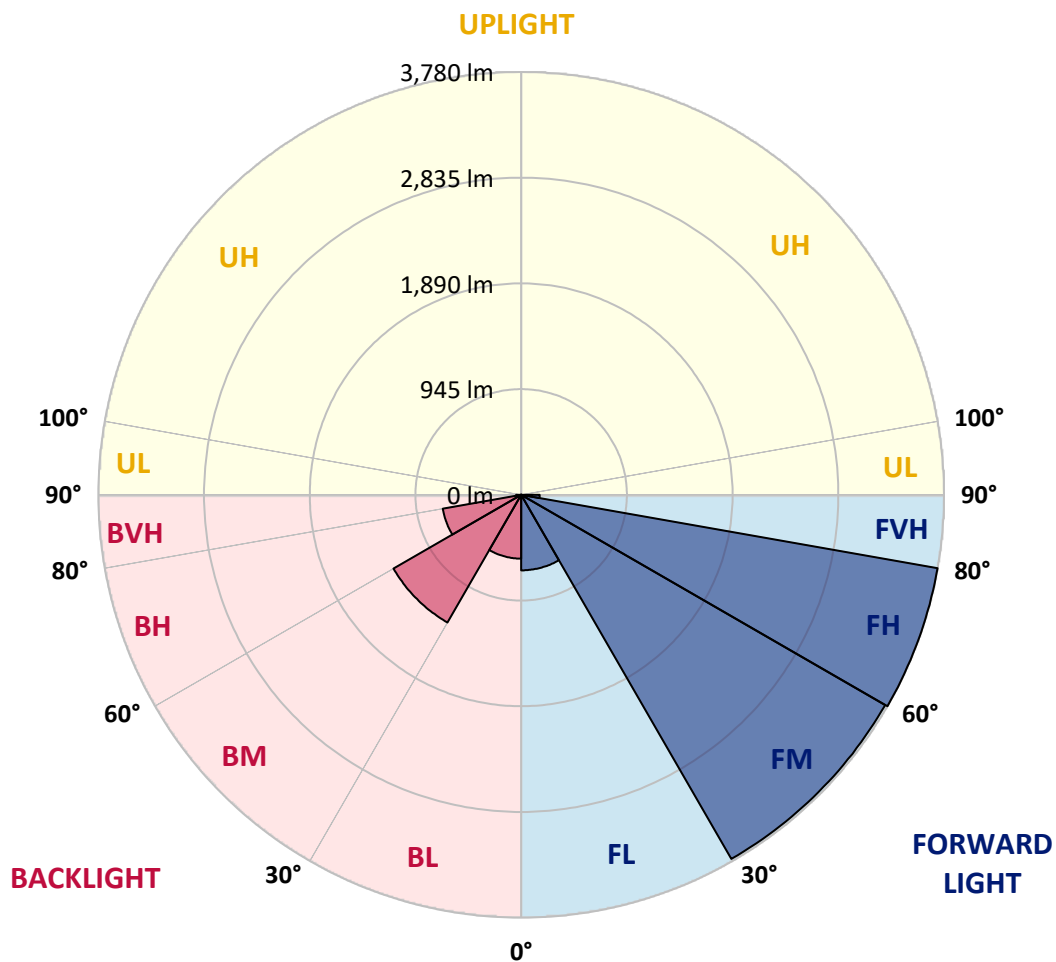
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.3	6.1			
FM	(30°-60°)	3757.9	34.1			
FH	(60°-80°)	3779.6	34.3			G2/5000
FVH	(80°-90°)	164.9	1.5			G2/225
BL	(0°-30°)	570.2	5.2	B2/1000		
BM	(30°-60°)	1317.5	12.0	B2/2500		
BH	(60°-80°)	711.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	45.1	0.4			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1241.4	1244.3	1245.1	1244.3	1245.1	1242.2	1241.4	1237.0	1239.2	1233.4	1231.9
5°	1308.6	1310.8	1312.3	1306.5	1307.9	1305.0	1301.3	1297.0	1291.1	1283.1	1278.0
7.5°	1374.4	1378.1	1377.3	1375.1	1370.0	1367.1	1359.8	1353.2	1343.0	1333.5	1326.9
10°	1462.8	1462.1	1462.1	1449.7	1442.4	1435.8	1422.6	1412.4	1402.2	1388.3	1381.0
12.5°	1565.1	1560.0	1557.8	1549.0	1533.7	1522.0	1503.0	1483.3	1465.0	1450.4	1438.7
15°	1663.8	1663.8	1657.9	1644.0	1629.4	1614.1	1587.0	1558.5	1528.6	1505.2	1493.5
17.5°	1753.6	1745.6	1740.5	1722.2	1706.9	1682.0	1652.1	1621.4	1584.1	1551.2	1528.6
20°	1819.4	1812.8	1801.9	1779.2	1752.9	1723.7	1688.6	1652.8	1612.6	1576.8	1551.2
22.5°	1857.4	1849.4	1832.5	1802.6	1766.8	1725.9	1684.9	1651.3	1614.8	1587.8	1566.6
25°	1877.1	1869.1	1846.4	1807.0	1758.7	1704.7	1657.9	1625.0	1603.8	1597.3	1594.3
27.5°	1876.4	1869.8	1845.7	1800.4	1738.3	1676.2	1625.8	1598.0	1595.8	1621.4	1640.4
30°	1857.4	1853.0	1831.1	1785.8	1720.8	1655.7	1609.0	1594.3	1617.0	1671.1	1717.8
32.5°	1838.4	1836.2	1820.9	1779.9	1724.4	1669.6	1637.5	1638.9	1685.7	1769.0	1844.2
35°	1840.6	1843.5	1841.3	1819.4	1784.3	1755.8	1740.5	1772.6	1845.7	1946.5	2047.4
37.5°	1859.6	1870.5	1884.4	1886.6	1887.3	1883.0	1915.1	1983.1	2089.7	2221.3	2379.1
40°	1901.2	1913.7	1953.8	1988.9	2034.2	2088.3	2153.3	2247.6	2379.8	2542.0	2735.7
42.5°	2030.6	2048.1	2097.8	2162.8	2246.1	2330.9	2428.1	2556.7	2718.9	2889.8	3093.0
45°	2199.3	2235.9	2290.7	2363.0	2488.0	2607.1	2732.7	2876.7	3049.1	3263.2	3467.8
47.5°	2409.8	2446.3	2526.0	2603.4	2751.0	2899.3	3036.7	3187.2	3374.3	3593.5	3820.0
50°	2593.9	2635.6	2706.4	2810.9	2981.9	3163.8	3315.8	3478.8	3635.9	3866.8	4095.5
52.5°	2738.6	2768.5	2836.5	2932.2	3122.9	3322.4	3514.6	3695.8	3882.1	4113.0	4324.9
55°	2756.9	2784.6	2851.1	2960.7	3154.3	3375.7	3597.1	3812.0	4075.7	4327.8	4608.4
57.5°	2677.9	2700.6	2767.8	2865.7	3054.2	3306.3	3586.2	3861.6	4199.2	4539.7	4882.4
60°	2566.1	2588.8	2641.4	2719.6	2889.8	3161.7	3488.3	3865.3	4313.9	4805.7	5309.9
62.5°	2443.4	2463.1	2505.5	2561.0	2710.8	2961.4	3335.6	3841.2	4407.5	5070.2	5847.6
65°	2236.6	2284.1	2302.4	2359.4	2509.2	2745.9	3126.6	3678.2	4369.5	5187.8	6185.2
67°	2007.9	2056.1	2065.6	2123.4	2243.2	2470.4	2857.7	3376.5	4068.4	4984.7	6110.7
67.5°	1934.8	1975.8	1990.4	2048.1	2161.4	2375.4	2743.0	3267.6	3976.4	4873.6	6020.8
70°	1422.6	1467.9	1484.0	1508.1	1589.2	1767.5	2010.8	2466.0	3170.4	3977.1	5079.0
72.5°	761.4	797.9	813.2	849.1	890.7	987.9	1174.2	1500.8	1945.8	2661.1	3613.2
75°	515.1	529.7	540.7	565.5	608.7	686.1	767.9	882.7	1151.6	1501.5	2056.1
77.5°	293.7	300.3	301.8	306.2	340.5	414.3	548.7	743.1	952.8	1088.0	1315.2
80°	127.1	140.3	150.5	143.9	141.8	157.1	196.6	293.0	574.3	911.9	1082.1
82.5°	68.7	74.5	83.3	84.0	88.4	93.5	101.6	120.6	169.5	342.0	746.0
85°	35.8	37.3	49.7	57.0	60.6	63.6	65.0	72.3	83.3	105.9	185.6
87.5°	5.1	7.3	8.8	11.7	13.2	13.9	16.1	20.5	24.1	29.2	49.7
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°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1225.4	1223.9	1219.5	1216.6	1213.7	1210.7	1207.1	1204.2	1199.0	1195.4	1191.0
5°	1270.7	1261.9	1256.0	1248.0	1246.5	1237.0	1227.5	1223.2	1214.4	1207.1	1198.3
7.5°	1316.7	1306.5	1297.0	1290.4	1286.7	1273.6	1264.1	1253.1	1242.9	1233.4	1223.2
10°	1370.8	1360.5	1350.3	1345.9	1339.3	1326.9	1318.9	1305.0	1294.8	1283.1	1269.2
12.5°	1427.0	1419.7	1412.4	1406.6	1403.6	1397.8	1386.1	1374.4	1360.5	1348.8	1332.8
15°	1476.7	1471.6	1468.7	1467.2	1467.2	1463.6	1452.6	1441.6	1427.0	1413.9	1396.3
17.5°	1511.8	1509.6	1511.8	1514.0	1516.9	1514.0	1511.8	1499.4	1489.9	1473.8	1456.2
20°	1532.2	1536.6	1547.6	1554.9	1561.5	1566.6	1568.8	1558.5	1546.1	1534.4	1522.7
22.5°	1554.2	1566.6	1585.6	1596.5	1607.5	1625.8	1630.1	1622.8	1613.3	1606.0	1593.6
25°	1590.7	1609.0	1641.8	1659.4	1674.7	1701.8	1705.4	1706.9	1704.7	1698.8	1683.5
27.5°	1647.7	1683.5	1727.3	1750.0	1766.8	1801.9	1815.7	1815.7	1809.9	1816.5	1816.5
30°	1747.1	1794.6	1851.5	1864.7	1891.0	1921.7	1944.3	1947.3	1948.0	1961.9	1982.3
32.5°	1899.8	1945.1	2008.6	2023.3	2045.9	2075.1	2100.7	2097.8	2104.4	2134.3	2161.4
35°	2121.9	2167.9	2209.6	2229.3	2239.5	2265.8	2275.3	2291.4	2311.1	2348.4	2344.8
37.5°	2450.7	2491.6	2497.5	2509.9	2497.5	2502.6	2509.9	2528.9	2581.5	2615.1	2561.0
40°	2846.7	2914.7	2908.1	2893.5	2865.7	2828.5	2841.6	2870.8	2927.8	2898.6	2753.2
42.5°	3220.1	3290.3	3277.1	3260.3	3198.9	3185.0	3183.6	3207.7	3238.4	3155.1	2903.7
45°	3587.6	3659.2	3636.6	3627.1	3586.2	3556.2	3581.1	3582.5	3574.5	3396.2	3035.2
47.5°	3966.9	4032.6	4018.0	4026.0	3983.7	3963.9	3966.1	3955.9	3880.6	3600.8	3137.5
50°	4273.0	4361.4	4370.2	4351.9	4329.3	4299.3	4376.0	4348.3	4181.0	3799.5	3236.2
52.5°	4511.2	4630.3	4675.6	4663.9	4645.7	4649.3	4793.3	4824.7	4547.8	4050.2	3345.1
55°	4793.3	4981.0	5054.8	5098.7	5079.7	5152.8	5482.3	5498.4	5057.8	4377.5	3486.8
57.5°	5200.3	5469.1	5702.2	5764.3	5824.3	6061.7	6596.6	6433.6	5719.8	4872.9	3666.6
60°	5819.1	6408.1	6786.6	6985.3	7125.6	7457.3	7965.9	7553.0	6544.7	5462.6	3892.3
62.5°	6685.7	7546.5	8179.2	8378.7	8436.4	8627.1	8995.4	8205.5	6994.1	5727.1	3912.1
65°	7330.9	8363.4	9121.1	9223.4	9154.7	9158.3	9254.8	8171.2	6826.7	5496.2	3573.0
67°	7288.5	8444.5	9220.5	9354.9	9259.9	9135.0	8984.4	7705.8	6289.0	5012.5	3128.8
67.5°	7223.5	8366.3	9177.3	9319.1	9232.1	9089.7	8869.7	7525.3	6121.6	4861.9	3038.2
70°	6244.4	7379.1	8471.5	8671.0	8707.5	8577.5	7960.0	6345.2	4970.1	3955.2	2359.4
72.5°	4860.5	5871.0	6951.7	7124.9	7265.2	6890.3	5793.6	4382.6	3622.7	2850.4	1708.3
75°	3209.1	4237.2	4782.3	4807.9	4628.9	3934.7	2830.7	2195.0	2020.3	1675.4	1057.3
77.5°	1717.1	2491.6	2507.0	2321.4	2236.6	1667.4	676.6	373.4	415.8	472.0	420.9
80°	1280.9	1587.0	1839.1	1977.2	2018.1	1429.9	350.0	198.0	173.2	157.8	155.6
82.5°	1155.2	1533.0	1718.6	1793.8	1774.8	1176.4	196.6	133.0	110.3	119.8	136.6
85°	453.0	818.4	1076.3	1042.0	875.4	438.4	107.4	71.6	71.6	103.8	134.4
87.5°	92.8	168.1	228.0	217.7	195.8	84.8	52.6	43.1	43.8	84.0	127.1
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):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1186.6	1182.2	1179.3	1176.4	1173.5	1172.0	1169.8	1169.8	1165.4	1164.0	1162.5
5°	1191.7	1184.4	1179.3	1172.7	1167.6	1163.2	1157.4	1155.9	1150.8	1147.2	1145.7
7.5°	1213.7	1202.7	1191.7	1183.7	1176.4	1166.9	1160.3	1154.5	1149.4	1145.7	1141.3
10°	1255.3	1243.6	1228.3	1213.7	1204.2	1189.5	1179.3	1169.1	1163.2	1158.9	1153.0
12.5°	1316.7	1299.9	1281.6	1264.1	1248.0	1229.0	1218.8	1206.4	1199.0	1195.4	1191.0
15°	1379.5	1361.3	1338.6	1321.8	1303.5	1288.9	1279.4	1268.5	1262.6	1258.2	1255.3
17.5°	1443.8	1422.6	1406.6	1389.8	1381.0	1370.0	1357.6	1343.7	1326.9	1316.7	1302.8
20°	1509.6	1493.5	1484.0	1474.5	1464.3	1448.9	1424.1	1395.6	1364.2	1334.2	1305.7
22.5°	1586.3	1576.8	1575.3	1566.6	1545.4	1508.9	1462.8	1409.5	1356.1	1306.5	1267.7
25°	1694.4	1694.4	1687.1	1651.3	1601.7	1535.9	1458.4	1381.7	1310.8	1242.9	1191.7
27.5°	1830.4	1825.2	1789.4	1715.6	1626.5	1524.2	1420.4	1323.3	1232.7	1158.1	1092.4
30°	1980.1	1944.3	1867.6	1751.4	1617.7	1486.2	1359.1	1246.5	1139.9	1048.5	971.1
32.5°	2135.8	2048.8	1910.7	1751.4	1587.0	1429.2	1282.3	1144.2	1022.2	919.9	827.9
35°	2276.8	2118.2	1921.0	1722.9	1527.1	1345.2	1174.9	1018.6	872.4	762.1	661.3
37.5°	2404.7	2164.3	1910.0	1667.4	1440.2	1226.8	1027.3	854.9	689.8	583.1	496.9
40°	2488.0	2173.8	1864.7	1580.5	1316.0	1066.8	846.1	653.2	522.4	425.3	367.5
42.5°	2539.8	2155.5	1791.6	1461.4	1148.6	865.9	635.0	468.4	371.2	317.1	295.2
45°	2569.1	2108.0	1683.5	1298.4	946.2	658.3	450.8	338.3	285.7	266.7	259.4
47.5°	2567.6	2031.3	1548.3	1109.9	722.6	458.9	319.3	263.8	249.2	243.3	241.9
50°	2552.3	1937.0	1389.8	905.3	521.7	320.0	252.8	236.7	233.1	229.4	228.0
52.5°	2531.1	1820.1	1214.4	705.8	370.5	255.7	229.4	225.0	222.1	218.5	217.0
55°	2491.6	1676.2	1024.4	531.2	290.1	230.9	221.4	219.9	216.3	211.2	208.2
57.5°	2443.4	1530.0	842.5	415.0	256.5	225.0	219.9	217.7	212.6	206.8	200.9
60°	2425.9	1409.5	700.0	350.0	248.4	227.2	223.6	220.7	213.4	204.6	198.0
62.5°	2316.3	1273.6	597.7	324.4	252.8	236.7	235.3	230.9	219.9	209.7	199.5
65°	2032.8	1077.0	506.4	306.9	261.6	252.8	254.3	247.7	236.7	222.9	204.6
67°	1719.3	878.3	421.6	290.1	268.2	269.6	274.7	269.6	255.7	236.0	211.2
67.5°	1636.0	827.9	400.4	285.0	269.6	274.0	279.9	276.2	262.3	239.7	214.1
70°	1215.9	583.1	298.8	257.9	269.6	287.2	300.3	304.0	288.6	257.2	219.9
72.5°	856.4	376.3	229.4	223.6	244.8	268.2	293.0	305.4	287.9	253.5	211.9
75°	514.4	235.3	186.3	190.0	206.1	230.2	249.9	255.0	233.1	211.2	183.4
77.5°	238.2	156.4	146.1	151.3	166.6	177.6	177.6	167.3	150.5	137.4	131.5
80°	140.3	127.9	127.1	136.6	146.9	138.8	126.4	112.5	103.8	99.4	97.2
82.5°	131.5	136.6	145.4	147.6	139.6	119.8	104.5	90.6	86.2	84.0	81.8
85°	154.9	165.9	151.3	139.6	123.5	100.8	81.8	70.1	68.0	65.8	62.8
87.5°	143.2	136.6	119.1	102.3	84.8	61.4	44.6	40.2	43.1	42.4	40.9
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):**

	160°	165°	170°	175°	180°
0°	1194.7	1194.7	1194.7	1194.7	1194.7
2.5°	1163.2	1163.2	1160.3	1158.9	1162.5
5°	1142.8	1143.5	1141.3	1140.6	1141.3
7.5°	1138.4	1137.7	1136.2	1134.7	1136.2
10°	1151.6	1150.8	1148.6	1150.1	1147.9
12.5°	1191.0	1195.4	1194.7	1196.1	1199.0
15°	1255.3	1254.6	1252.4	1253.8	1256.0
17.5°	1291.8	1286.0	1280.9	1278.7	1278.7
20°	1283.1	1266.3	1257.5	1252.4	1250.9
22.5°	1231.2	1207.1	1188.8	1184.4	1180.8
25°	1146.4	1116.5	1093.1	1088.0	1078.5
27.5°	1047.8	1007.6	979.8	974.0	968.9
30°	918.5	872.4	840.3	819.8	826.4
32.5°	760.6	716.8	679.5	646.7	641.5
35°	587.5	539.2	506.4	491.7	482.2
37.5°	438.4	398.2	376.3	362.4	363.1
40°	335.4	314.2	302.5	293.0	293.7
42.5°	279.9	270.4	267.4	263.0	260.9
45°	253.5	250.6	251.4	247.0	245.5
47.5°	238.9	236.7	237.5	234.5	233.8
50°	227.2	225.8	226.5	224.3	223.6
52.5°	215.6	216.3	215.6	214.1	214.1
55°	205.3	204.6	206.1	203.9	203.9
57.5°	197.3	196.6	196.6	195.8	195.8
60°	192.9	190.0	189.2	189.2	190.0
62.5°	190.7	185.6	184.9	184.9	185.6
65°	191.4	183.4	180.5	179.7	179.0
67°	192.2	180.5	174.6	171.7	171.0
67.5°	192.9	179.0	172.4	169.5	168.1
70°	188.5	168.8	159.3	154.2	152.7
72.5°	177.6	156.4	144.7	138.1	136.6
75°	157.8	141.8	131.5	124.2	121.3
77.5°	122.0	114.7	111.1	106.7	105.2
80°	95.0	91.3	89.9	87.0	86.2
82.5°	78.9	75.3	73.1	69.4	67.2
85°	61.4	57.0	55.5	52.6	51.1
87.5°	40.2	38.0	37.3	33.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)