

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: P158105

Luminaire Tested: **VTS-F03-LED-E1-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158105
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F03-LED-E1-SL2
Description: VENTUS LED SITE LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

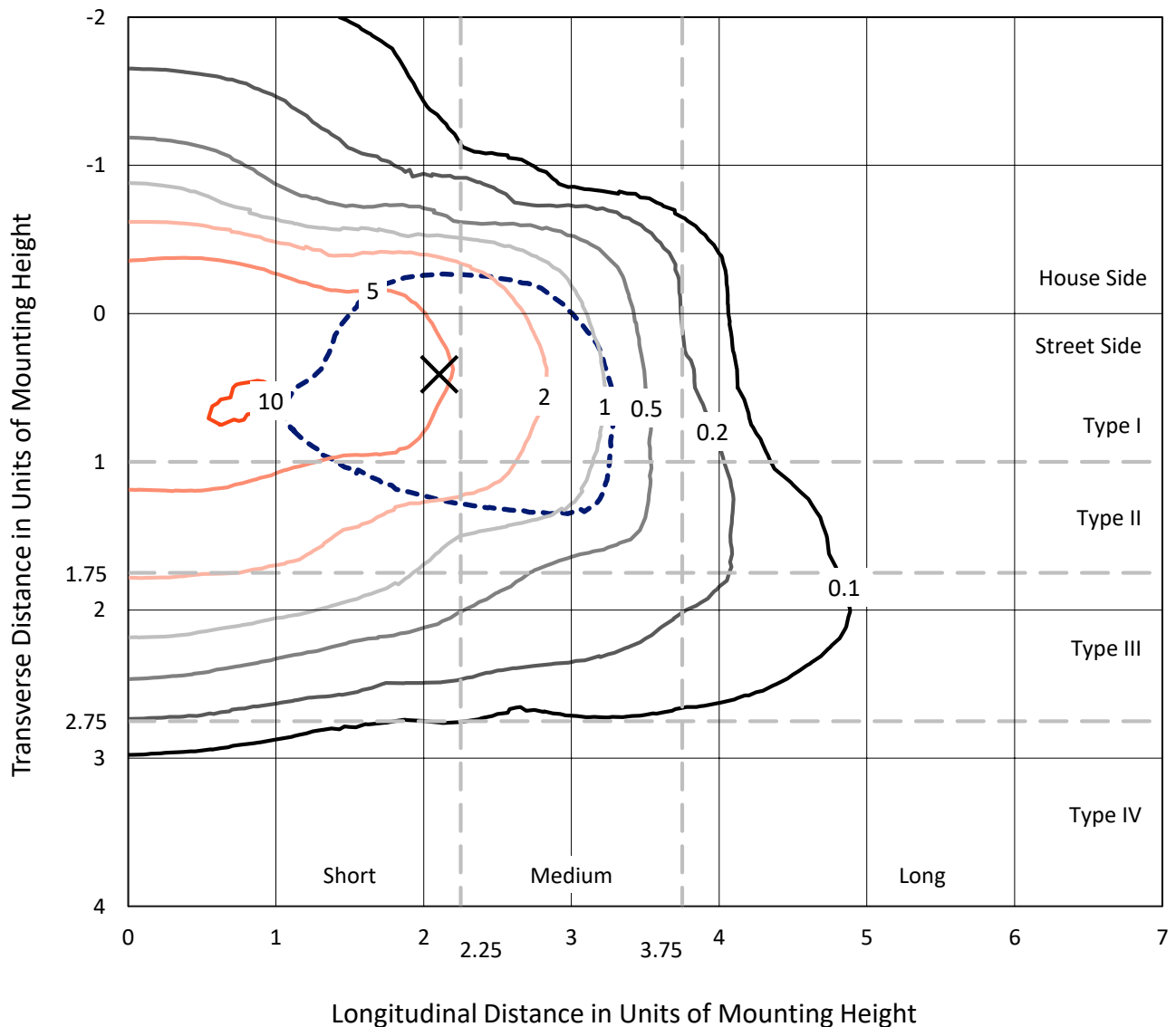
Lumens per Lamp: N/A
Luminaire Lumens: 7451.4 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): 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

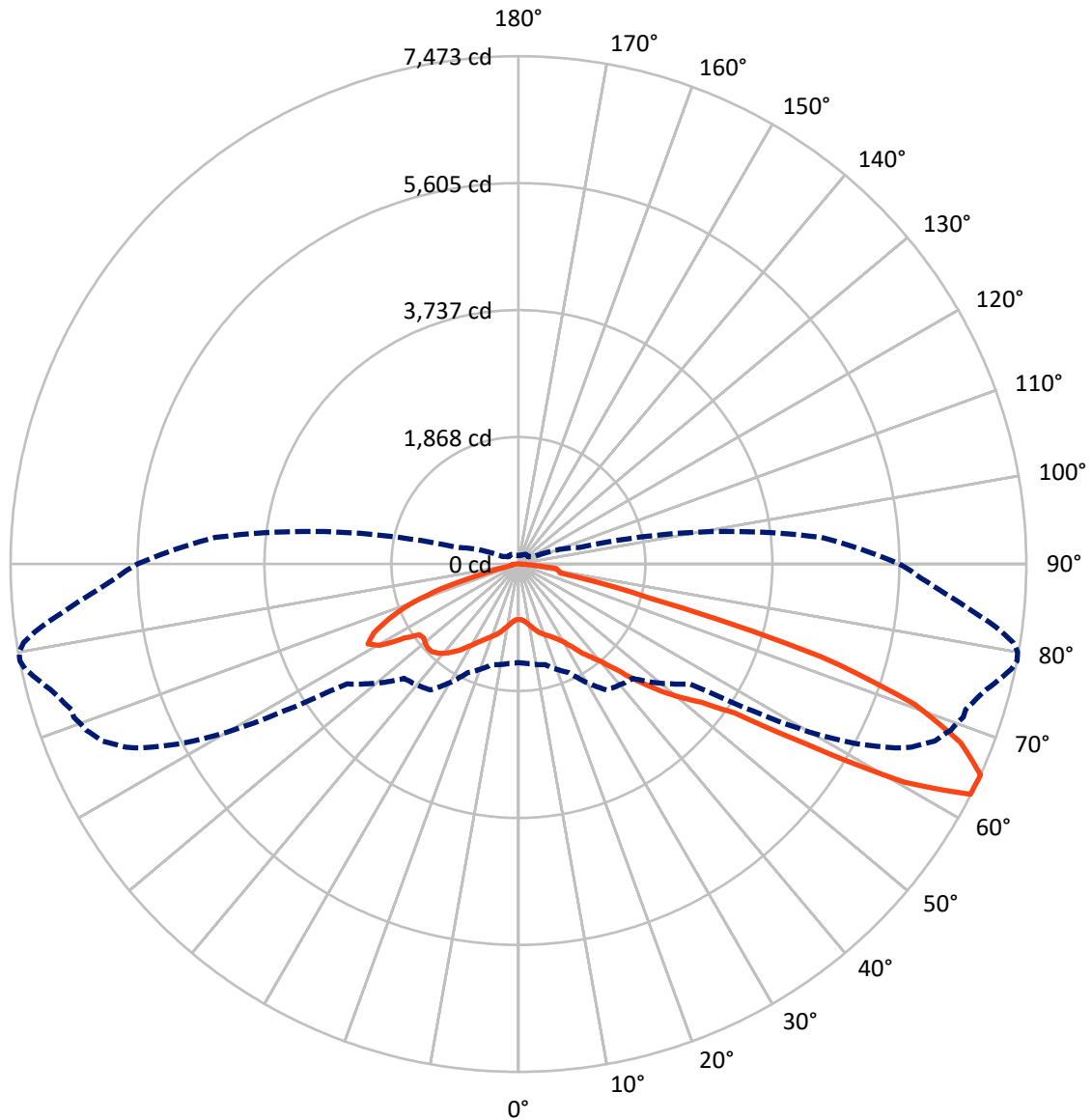
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1712.2	0.0	1712.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	5739.2	0.0	5739.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	7451.4	0.0	7451.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	1.1
10°-20°	262.0	3.5
20°-30°	451.6	6.1
30°-40°	739.8	9.9
40°-50°	1238.8	16.6
50°-60°	1675.7	22.5
60°-70°	2063.6	27.7
70°-80°	798.8	10.7
80°-90°	140.5	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°	7451.4	100.0
0°-180°	7451.4	100.0



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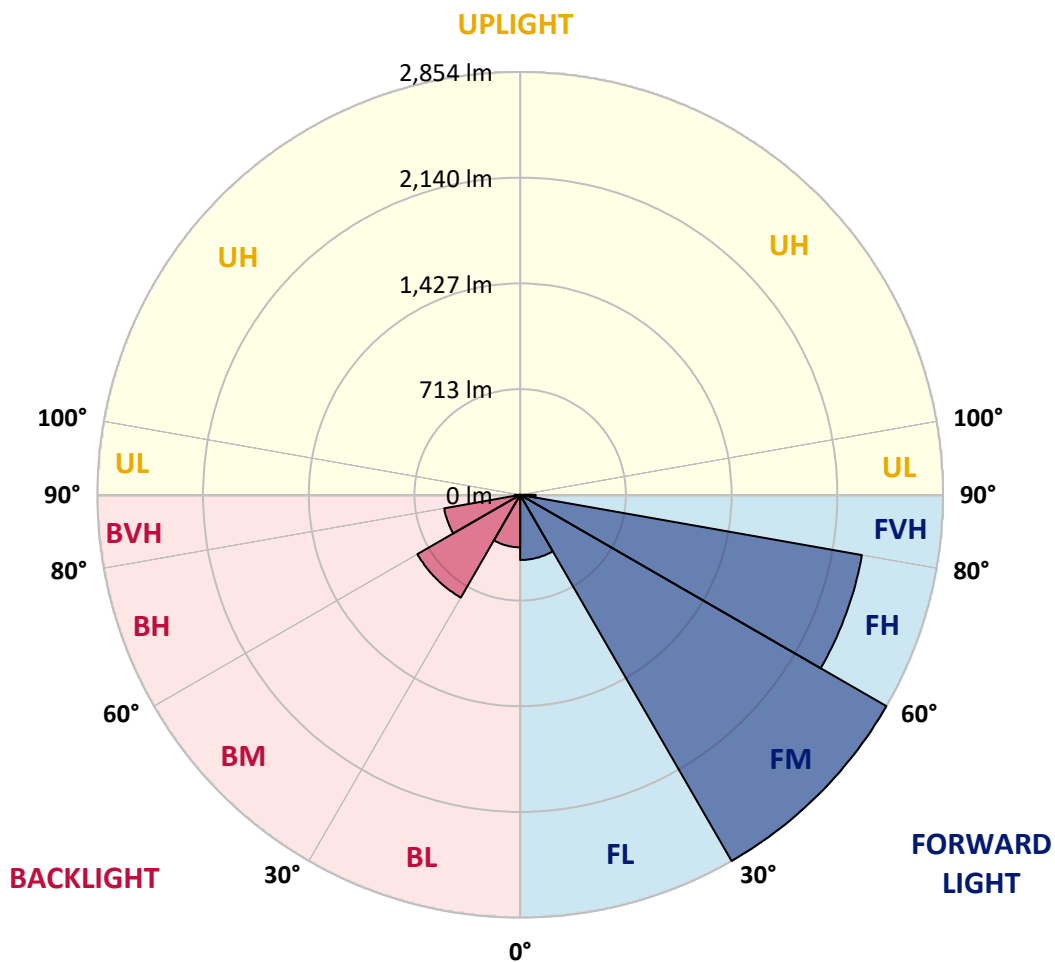
CATALOG NUMBER: VTS-F03-LED-E1-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	439.9	5.9			
FM (30°-60°)	2853.6	38.3			
FH (60°-80°)	2341.5	31.4			G2/5000
FVH (80°-90°)	104.2	1.4			G2/225
BL (0°-30°)	354.3	4.8	B1/500		
BM (30°-60°)	800.7	10.7	B1/1000		
BH (60°-80°)	520.9	7.0	B2/1000		G2/1000
BVH (80°-90°)	36.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3
2.5°	816.8	814.3	816.8	818.8	820.2	822.2	821.7	821.2	820.7	821.2	821.2
5°	823.7	823.2	825.7	827.7	831.1	833.6	836.6	836.6	836.6	836.1	837.1
7.5°	846.0	845.5	848.0	850.0	852.9	857.9	861.8	863.8	863.3	863.3	863.3
10°	882.7	880.7	880.7	880.7	884.6	888.1	897.0	898.0	900.0	899.0	899.5
12.5°	918.3	918.8	917.3	915.8	916.3	923.3	936.1	938.6	939.1	940.6	941.6
15°	950.5	950.0	946.5	943.1	947.5	959.4	976.3	980.7	980.7	983.7	985.7
17.5°	980.2	979.2	972.8	966.9	971.3	991.6	1017.9	1020.8	1025.3	1026.8	1028.8
20°	1015.4	1013.4	1006.0	990.1	990.1	1017.9	1052.5	1055.5	1059.5	1060.5	1063.9
22.5°	1064.4	1059.5	1043.6	1014.9	1007.0	1039.2	1081.8	1083.3	1086.2	1090.2	1093.2
25°	1119.9	1120.9	1095.1	1045.1	1027.8	1061.5	1110.0	1112.5	1117.9	1120.9	1124.4
27.5°	1177.4	1178.8	1150.1	1087.7	1058.5	1092.2	1148.1	1151.1	1157.6	1161.0	1166.5
30°	1242.7	1244.7	1217.0	1154.1	1109.5	1137.2	1204.6	1212.5	1218.0	1222.4	1231.4
32.5°	1399.8	1387.9	1368.6	1301.7	1231.4	1229.4	1295.7	1304.7	1312.1	1321.5	1329.9
35°	1597.4	1604.8	1614.7	1569.7	1507.7	1462.7	1468.1	1463.2	1470.1	1484.0	1492.4
37.5°	1753.9	1770.3	1813.3	1842.6	1840.1	1831.2	1748.0	1748.0	1752.4	1745.0	1744.0
40°	1876.7	1887.1	1975.3	2088.7	2184.3	2231.4	2165.5	2156.1	2161.1	2122.9	2124.4
42.5°	1940.1	1955.5	2082.3	2281.4	2471.1	2622.2	2601.9	2595.5	2580.6	2571.2	2565.2
45°	1972.3	1990.7	2141.7	2415.2	2691.5	2924.8	3029.8	3028.9	3015.5	3004.6	2999.6
47.5°	1956.0	1971.8	2132.8	2455.8	2807.4	3120.0	3352.3	3366.7	3362.7	3378.5	3385.0
50°	1849.0	1869.3	2030.8	2368.1	2758.9	3196.8	3575.7	3602.4	3638.6	3661.4	3691.6
52.5°	1752.4	1769.3	1914.9	2225.9	2599.4	3134.4	3710.4	3765.4	3814.9	3861.5	3897.6
55°	1651.4	1668.2	1796.0	2078.3	2438.4	2950.1	3771.8	3852.1	3929.3	4008.1	4080.4
57.5°	1613.2	1631.1	1726.2	1963.9	2306.7	2767.3	3802.0	3933.8	4059.6	4193.3	4332.0
60°	1712.3	1728.2	1800.5	1966.9	2206.1	2584.6	3741.1	3948.2	4164.6	4385.0	4598.0
62.5°	1682.1	1690.5	1780.7	2038.7	2334.4	2404.3	3477.1	3750.5	4065.0	4388.0	4714.4
65°	1451.3	1467.6	1535.5	1762.3	2262.6	2380.0	3074.9	3349.8	3720.8	4102.7	4540.1
67.5°	1041.2	1018.4	1070.9	1269.5	1755.4	2376.0	2622.2	2825.8	3116.5	3409.3	3767.9
70°	473.0	462.1	503.2	660.3	1059.0	1877.7	2217.0	2285.9	2393.9	2591.0	2833.2
72.5°	186.7	186.2	213.0	272.9	500.8	1208.6	1864.4	1904.0	1942.1	2027.8	2132.3
75°	122.3	122.3	130.3	147.1	246.7	583.5	1577.1	1613.2	1671.7	1696.0	1740.5
77.5°	92.1	92.6	96.1	100.1	136.2	307.1	1113.0	1241.3	1340.3	1414.1	1468.1
80°	65.4	68.4	74.8	77.3	88.7	174.8	629.0	721.7	833.6	953.0	1103.1
82.5°	49.0	52.5	63.4	66.4	70.3	99.6	283.8	322.0	375.9	487.4	700.9
85°	22.8	25.3	43.6	47.6	51.0	57.5	144.1	161.0	182.8	200.1	233.3
87.5°	3.5	2.5	7.4	10.4	16.3	16.8	49.5	58.9	63.9	76.8	79.7
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3
2.5°	821.2	821.7	822.2	821.2	821.7	821.7	820.7	820.2	820.2	820.2	820.7
5°	837.1	838.1	837.1	837.6	839.6	839.1	838.1	837.6	839.6	840.1	838.6
7.5°	865.3	865.8	863.8	866.3	867.3	867.8	867.8	868.8	868.8	870.3	868.8
10°	901.5	901.5	904.9	904.4	904.9	905.9	906.4	908.4	909.9	909.9	910.9
12.5°	943.1	943.6	947.0	947.5	949.5	950.0	953.0	951.0	956.0	956.0	957.4
15°	986.2	989.6	990.1	995.1	996.1	996.6	1000.5	1000.5	1004.0	1004.5	1005.5
17.5°	1028.8	1031.7	1033.7	1037.7	1041.2	1042.6	1044.1	1047.1	1049.6	1050.6	1053.0
20°	1065.4	1068.4	1070.4	1074.3	1077.3	1079.8	1081.3	1084.7	1087.2	1088.2	1091.7
22.5°	1096.1	1098.1	1101.6	1107.0	1108.0	1111.0	1115.4	1117.9	1118.9	1121.9	1125.9
25°	1128.8	1131.8	1133.8	1138.7	1142.7	1147.6	1151.6	1155.6	1156.6	1160.5	1164.0
27.5°	1172.4	1175.4	1175.9	1185.8	1189.7	1196.7	1201.1	1207.1	1210.1	1213.5	1220.5
30°	1236.8	1243.7	1246.7	1258.1	1260.1	1268.0	1275.9	1277.9	1282.4	1282.9	1294.3
32.5°	1335.4	1345.3	1349.2	1361.1	1364.1	1371.5	1376.0	1386.4	1386.9	1391.8	1394.3
35°	1496.8	1494.4	1509.7	1512.7	1521.6	1528.0	1532.5	1532.5	1541.9	1542.4	1545.4
37.5°	1717.3	1712.3	1716.3	1698.4	1702.9	1695.0	1693.5	1695.5	1691.5	1692.5	1692.0
40°	2069.9	2047.6	2024.4	1969.4	1957.5	1934.7	1916.9	1902.5	1888.6	1873.8	1863.9
42.5°	2512.2	2480.0	2445.4	2357.2	2316.1	2272.0	2228.9	2204.2	2154.6	2124.4	2108.1
45°	2975.9	2938.2	2889.7	2816.4	2757.9	2710.9	2632.1	2595.0	2518.2	2480.0	2428.5
47.5°	3355.8	3356.3	3317.1	3242.8	3180.4	3149.2	3100.2	3028.4	2941.2	2892.1	2800.5
50°	3688.1	3687.6	3685.1	3640.6	3597.0	3562.8	3519.7	3454.8	3383.5	3328.0	3223.0
52.5°	3933.8	3966.5	3980.4	3979.9	3974.4	3958.6	3925.9	3869.9	3797.6	3766.4	3682.7
55°	4136.9	4208.2	4245.3	4326.6	4334.0	4360.3	4331.5	4332.0	4289.4	4292.4	4265.7
57.5°	4444.5	4574.7	4649.5	4829.3	4919.5	5028.4	5009.1	5100.3	5133.4	5175.5	5231.5
60°	4793.7	5036.9	5214.2	5571.8	5717.4	5893.8	5990.8	6094.4	6169.6	6246.9	6303.9
62.5°	5043.3	5362.8	5654.0	6163.7	6352.9	6538.7	6661.0	6786.3	6871.0	6926.5	6967.6
65°	4941.3	5294.4	5638.7	6173.1	6379.2	6513.9	6659.5	6731.8	6816.5	6862.6	6921.5
67.5°	4198.8	4552.9	4921.9	5552.5	5767.9	5954.2	6067.6	6161.2	6229.6	6288.0	6355.9
70°	3122.5	3509.8	3891.2	4582.7	4854.6	5123.5	5257.3	5373.2	5444.5	5503.4	5578.2
72.5°	2247.2	2489.9	2728.2	3502.4	3774.3	4122.0	4260.7	4389.5	4482.1	4479.1	4558.4
75°	1789.1	1887.6	1993.6	2393.4	2588.5	2881.7	2959.5	3031.8	2988.2	2904.5	2899.6
77.5°	1489.4	1530.0	1565.7	1691.0	1719.7	1789.6	1750.9	1710.8	1581.5	1472.6	1415.1
80°	1209.1	1289.3	1341.8	1431.0	1467.6	1488.4	1493.9	1480.0	1432.5	1366.6	1261.6
82.5°	899.0	1051.6	1155.6	1330.9	1395.3	1408.7	1434.4	1418.6	1387.4	1333.9	1258.6
85°	263.5	298.2	341.8	463.6	543.4	611.2	680.6	714.7	736.0	706.3	628.6
87.5°	92.6	104.5	116.9	161.0	171.4	207.0	203.1	239.7	241.2	251.6	240.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3
2.5°	820.2	820.2	820.2	820.7	820.7	820.7	819.7	819.3	819.7	820.7	820.7
5°	839.6	840.1	841.0	839.1	839.6	841.0	840.1	839.6	840.1	841.0	840.1
7.5°	870.8	871.3	870.3	872.2	872.2	873.2	874.7	873.2	873.7	874.2	874.7
10°	911.4	911.9	912.9	914.4	914.8	915.8	916.8	918.3	918.3	917.3	919.8
12.5°	959.9	959.4	960.4	962.4	963.4	964.9	967.8	967.8	969.8	969.3	971.8
15°	1007.5	1009.9	1010.4	1013.9	1015.4	1017.9	1021.3	1023.3	1023.3	1026.3	1027.3
17.5°	1055.0	1057.0	1059.0	1062.0	1063.9	1065.4	1069.4	1071.9	1071.4	1076.8	1076.8
20°	1091.7	1095.6	1098.1	1100.1	1103.6	1106.0	1109.0	1112.0	1114.0	1117.4	1118.4
22.5°	1127.3	1129.8	1133.3	1135.8	1139.7	1142.7	1146.2	1148.6	1152.1	1156.6	1158.0
25°	1167.0	1170.9	1174.9	1178.4	1181.3	1184.8	1190.7	1196.2	1201.1	1205.1	1206.6
27.5°	1221.9	1226.4	1232.3	1234.8	1239.3	1242.2	1251.2	1258.1	1260.6	1267.5	1269.5
30°	1296.2	1301.2	1307.1	1310.1	1318.0	1322.0	1331.4	1338.8	1341.3	1349.7	1351.2
32.5°	1403.7	1406.7	1418.6	1418.1	1429.0	1440.4	1445.8	1451.8	1462.7	1467.1	1468.6
35°	1552.8	1559.7	1568.2	1567.7	1581.5	1588.0	1598.9	1605.3	1613.2	1612.7	1621.2
37.5°	1696.9	1699.4	1702.4	1708.8	1718.7	1727.7	1731.6	1738.1	1744.0	1752.9	1763.8
40°	1854.0	1859.9	1860.4	1863.9	1868.8	1880.2	1887.6	1894.6	1914.9	1927.8	1934.2
42.5°	2089.2	2087.8	2077.8	2084.3	2087.3	2104.6	2110.0	2131.3	2154.1	2181.4	2188.8
45°	2391.9	2372.1	2366.1	2363.6	2379.5	2388.4	2410.7	2450.3	2474.1	2499.9	2512.2
47.5°	2764.4	2702.4	2673.2	2666.8	2683.1	2721.3	2728.7	2767.8	2799.0	2817.8	2830.2
50°	3137.3	3088.8	3027.4	3006.6	3002.1	3037.3	3045.7	3078.4	3110.1	3115.5	3109.1
52.5°	3605.9	3526.6	3425.1	3388.4	3359.2	3361.7	3368.6	3382.5	3402.8	3394.4	3377.1
55°	4205.2	4115.1	4065.0	3995.7	3951.6	3943.7	3913.5	3871.9	3870.4	3875.8	3823.8
57.5°	5203.3	5165.6	5186.9	5179.5	5135.9	5162.2	5026.0	4987.3	4956.6	4903.1	4855.1
60°	6354.4	6393.0	6437.1	6538.7	6534.2	6636.2	6541.6	6517.8	6489.1	6324.2	6243.4
62.5°	7039.4	7054.8	7119.7	7214.3	7307.4	7405.0	7449.0	7464.4	7404.5	7269.7	7101.3
65°	6920.0	6987.9	7050.8	7132.5	7228.1	7325.7	7418.8	7473.3	7459.4	7370.3	7185.0
67.5°	6377.7	6449.0	6541.1	6626.8	6729.8	6814.5	6916.6	7016.6	7019.6	6975.0	6846.2
70°	5586.2	5668.9	5764.0	5812.0	5923.5	6000.2	6084.9	6184.0	6216.2	6221.7	6071.6
72.5°	4541.5	4576.2	4622.8	4597.5	4619.8	4668.8	4646.1	4654.0	4531.6	4554.4	4369.2
75°	2765.8	2734.1	2593.5	2465.2	2308.7	2188.3	2217.0	1987.2	1760.8	1749.5	1586.0
77.5°	1402.7	1352.2	1265.0	1174.4	1041.6	889.6	762.8	626.1	510.7	444.8	381.9
80°	1194.7	1159.0	1111.0	1045.1	948.5	836.1	703.8	599.8	503.2	402.7	322.5
82.5°	1143.2	1034.2	964.4	909.4	804.9	700.9	628.6	557.2	488.9	427.0	338.3
85°	567.1	501.8	424.5	376.4	289.8	226.9	212.5	174.8	163.0	125.8	106.0
87.5°	190.7	156.0	116.4	98.1	78.3	63.9	62.9	56.0	55.5	50.5	46.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3	815.3
2.5°	820.2	821.2	821.2	820.2	820.7	819.7	820.2	820.7	819.3	818.8	817.3
5°	840.5	840.1	840.1	840.5	842.0	842.5	840.1	841.0	841.5	839.1	833.6
7.5°	874.2	874.2	875.7	875.2	878.2	877.2	876.7	876.7	876.7	871.8	862.8
10°	919.8	919.8	921.3	923.3	923.8	922.8	922.8	923.3	925.7	915.8	902.0
12.5°	970.8	973.3	972.8	972.8	978.7	977.3	975.3	977.3	979.7	965.9	946.1
15°	1027.8	1029.3	1030.3	1033.7	1032.7	1036.2	1037.2	1036.2	1038.7	1020.8	987.7
17.5°	1079.3	1082.3	1083.3	1087.2	1087.2	1087.7	1091.7	1090.2	1090.7	1070.4	1022.8
20°	1121.9	1124.9	1126.3	1130.8	1131.8	1133.8	1135.3	1136.3	1138.7	1114.5	1051.6
22.5°	1164.5	1167.0	1169.4	1172.4	1176.4	1178.8	1180.8	1181.8	1186.3	1158.0	1078.8
25°	1212.0	1217.5	1220.0	1224.9	1228.9	1232.8	1235.8	1236.3	1243.7	1208.6	1101.1
27.5°	1275.4	1282.9	1286.8	1294.8	1298.7	1302.7	1301.7	1307.6	1318.0	1266.5	1118.4
30°	1358.6	1368.1	1370.5	1378.5	1384.9	1388.9	1393.3	1398.3	1405.2	1330.9	1126.8
32.5°	1474.6	1488.9	1492.4	1496.8	1506.3	1513.2	1516.2	1524.1	1526.1	1391.8	1124.4
35°	1633.5	1627.1	1644.0	1647.9	1661.3	1666.7	1670.2	1680.6	1672.7	1458.2	1108.0
37.5°	1777.2	1775.2	1791.6	1800.5	1817.8	1813.8	1822.3	1829.2	1801.0	1505.3	1077.8
40°	1952.5	1950.1	1972.8	1975.8	2002.6	1996.6	2000.1	2005.5	1942.6	1538.0	1022.8
42.5°	2197.2	2198.2	2222.5	2225.5	2228.9	2239.8	2222.0	2223.0	2093.2	1546.9	932.2
45°	2519.7	2537.0	2522.1	2522.6	2521.6	2500.8	2478.6	2452.3	2249.7	1516.2	815.3
47.5°	2832.2	2820.3	2801.5	2784.2	2769.8	2737.1	2704.4	2659.8	2384.9	1443.3	685.0
50°	3099.7	3072.9	3056.1	3008.0	2973.9	2931.3	2885.7	2834.7	2495.9	1338.3	563.2
52.5°	3348.3	3320.6	3257.7	3207.7	3158.6	3102.2	3049.2	2989.2	2594.0	1218.5	470.1
55°	3761.4	3737.2	3674.2	3582.6	3522.2	3444.4	3374.6	3293.3	2792.6	1121.4	408.6
57.5°	4722.8	4702.0	4569.8	4511.8	4432.1	4236.9	4208.2	4081.4	3325.0	1110.0	372.5
60°	6076.5	5987.4	5877.4	5718.9	5532.2	5467.8	5324.1	5155.2	4181.9	1141.2	343.3
62.5°	6907.7	6704.6	6543.1	6360.3	6188.5	6040.9	5883.8	5716.9	4620.3	1100.1	307.1
65°	6970.1	6731.3	6517.8	6303.4	6110.2	5926.4	5773.9	5607.0	4477.6	945.6	260.0
67.5°	6626.3	6374.7	6141.9	5898.7	5703.6	5537.6	5343.5	5183.0	4075.5	736.0	216.5
70°	5917.5	5696.6	5496.0	5234.0	5072.0	4869.9	4746.6	4546.0	3552.4	501.8	178.8
72.5°	4262.2	4095.8	4030.4	3847.6	3635.6	3516.7	3459.8	3265.1	2625.2	311.6	146.1
75°	1439.9	1481.0	1386.9	1242.7	1313.1	1204.6	1248.7	1156.1	1110.5	178.8	122.8
77.5°	319.5	300.2	277.4	257.6	256.1	240.7	255.1	241.2	258.1	113.9	108.5
80°	252.1	199.1	169.4	154.5	146.6	142.2	138.7	134.7	122.8	97.1	100.1
82.5°	272.4	205.6	150.6	120.4	103.0	96.6	95.1	91.1	90.1	94.1	101.0
85°	87.2	72.8	61.9	58.4	54.0	51.5	50.5	49.0	59.4	102.5	97.1
87.5°	45.6	40.1	35.7	34.2	29.7	27.7	27.2	27.7	41.6	102.5	70.3
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):

	125°	135°	145°	155°	165°	175°	180°
0°	815.3	815.3	815.3	815.3	815.3	815.3	815.3
2.5°	815.8	815.3	814.3	813.8	813.3	810.8	812.8
5°	831.1	826.2	821.7	816.3	813.3	810.8	810.8
7.5°	854.4	840.5	829.2	816.8	808.4	801.9	800.9
10°	883.6	856.9	830.6	808.4	792.5	780.6	779.1
12.5°	911.4	870.8	829.2	792.5	767.7	750.9	749.9
15°	937.1	878.2	817.8	763.8	726.6	704.3	701.9
17.5°	957.4	873.7	792.0	723.7	673.1	646.9	645.4
20°	961.9	855.9	755.4	674.1	620.6	592.9	586.5
22.5°	957.9	823.7	709.8	619.6	558.2	530.5	527.0
25°	946.1	784.6	653.3	556.2	499.3	471.0	464.1
27.5°	924.8	738.5	592.4	494.8	438.4	411.1	404.2
30°	893.1	683.0	527.5	437.4	378.9	357.1	350.2
32.5°	849.0	615.7	463.6	378.4	329.9	312.5	309.6
35°	788.0	538.4	396.7	329.9	294.2	283.8	282.3
37.5°	710.3	461.1	340.8	295.2	269.5	263.0	262.0
40°	608.7	381.9	301.2	270.4	251.6	246.2	245.2
42.5°	504.2	322.5	271.9	250.6	235.3	230.3	228.8
45°	412.6	282.3	250.1	234.3	219.9	214.5	214.0
47.5°	344.2	259.0	232.3	219.4	205.1	198.6	199.1
50°	294.2	237.8	217.4	206.5	190.2	184.3	184.8
52.5°	260.0	216.5	203.6	191.2	177.3	171.4	171.4
55°	233.3	199.1	190.2	176.8	165.9	160.5	160.0
57.5°	211.5	185.2	177.3	166.4	155.5	149.1	149.1
60°	198.1	175.3	168.9	159.0	146.1	139.2	138.7
62.5°	190.2	172.4	166.9	153.1	138.7	131.8	130.3
65°	184.3	179.3	172.4	149.6	132.7	125.3	123.8
67.5°	184.8	195.6	185.7	151.6	130.8	119.9	117.9
70°	187.7	208.5	195.2	156.0	139.2	117.4	112.9
72.5°	172.9	188.7	175.8	148.6	135.7	112.9	107.5
75°	144.1	137.7	126.3	120.9	121.8	102.5	100.5
77.5°	116.9	102.5	91.6	96.1	102.5	87.7	85.7
80°	101.5	83.2	77.8	85.2	93.1	74.8	69.8
82.5°	95.1	70.3	66.9	88.7	97.6	64.4	56.5
85°	83.7	57.5	52.5	104.5	97.6	48.5	45.1
87.5°	56.0	34.2	32.7	76.8	66.9	33.7	27.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)