

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: P158773

Luminaire Tested: **VTS-F04-LED-E1-SLL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158773  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VTS-F04-LED-E1-SLL-8030  
Description: VENTUS LED SITE LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (28) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

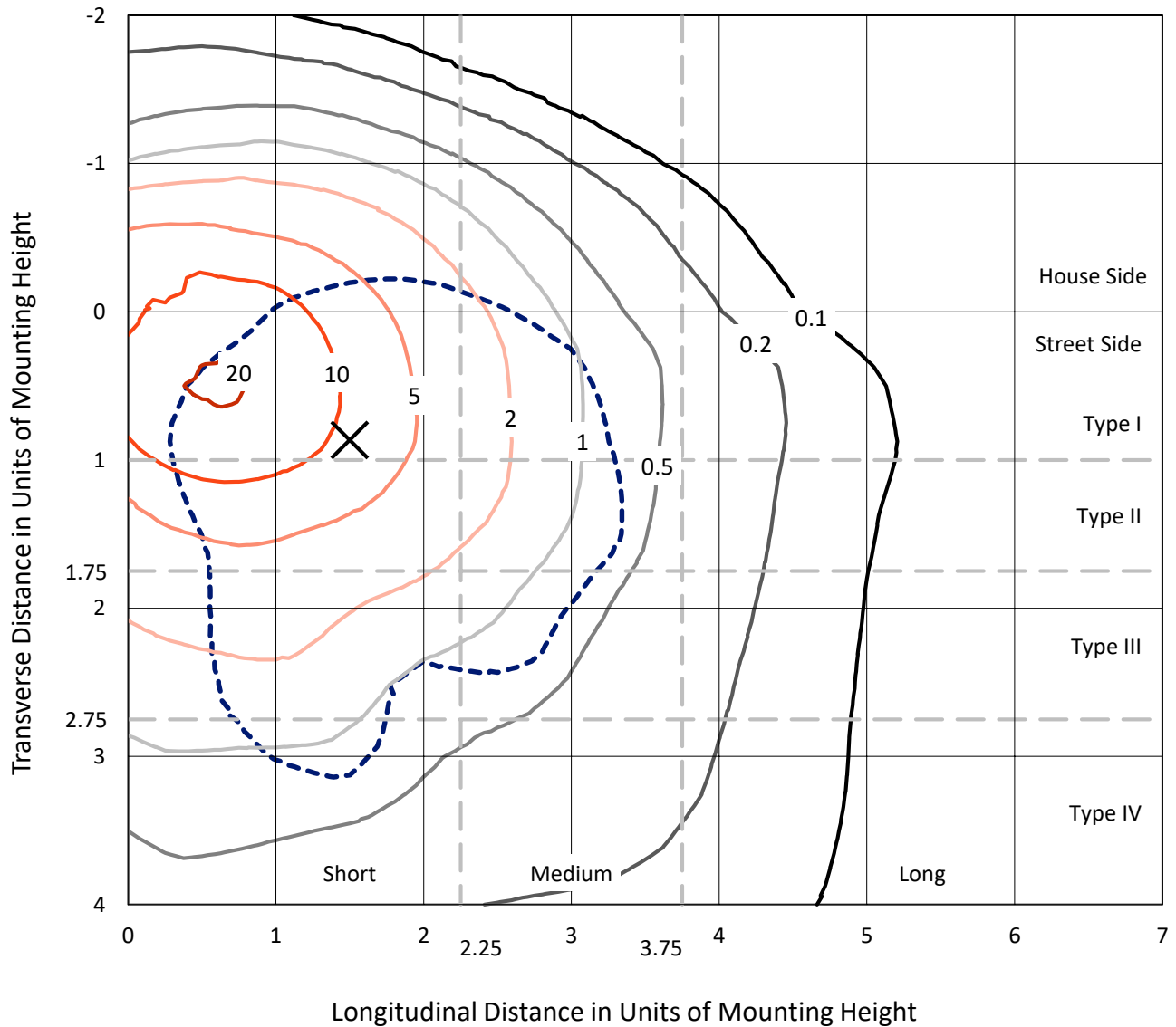
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7489.3 lumens  
Efficiency: N/A  
Efficacy: 73.3 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 102.2  
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

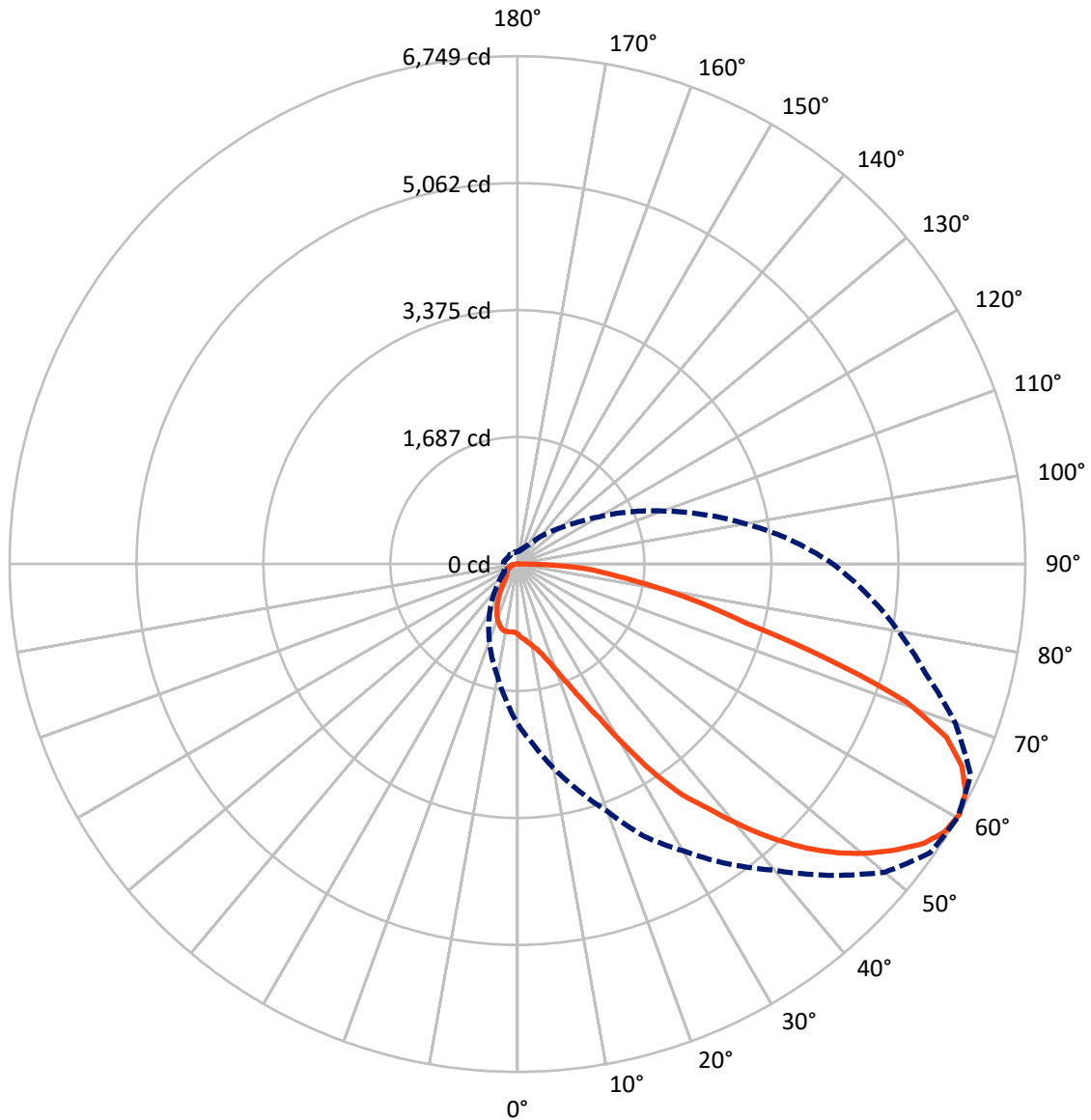
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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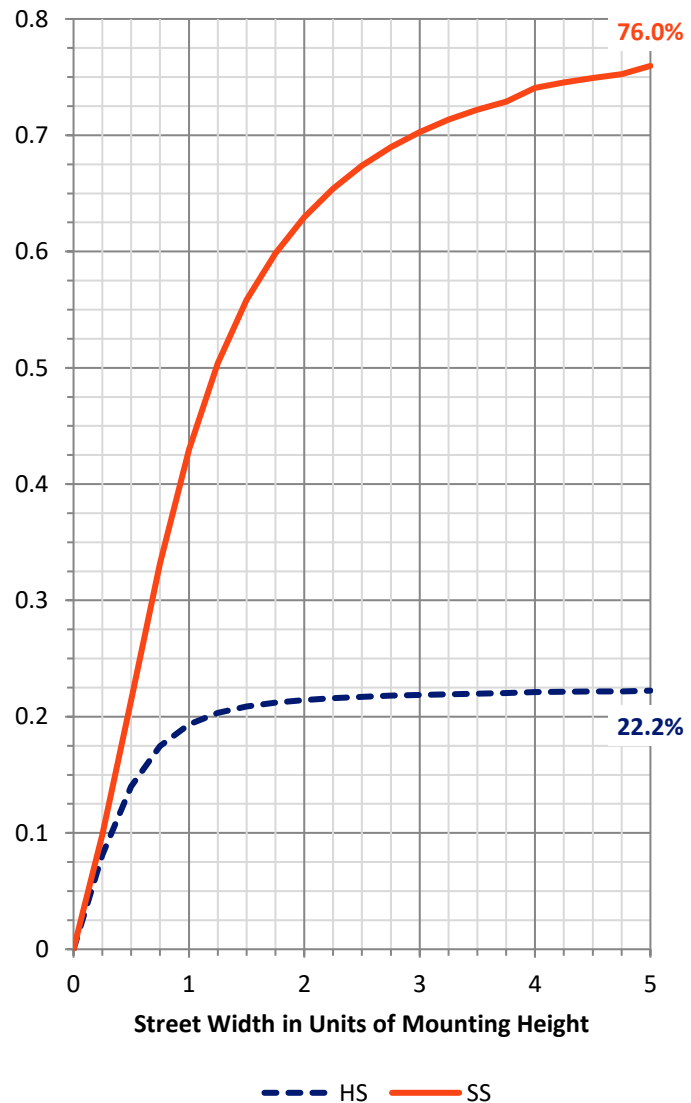
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1686.4	0.0	1686.4
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	5802.9	0.0	5802.9
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	7489.3	0.0	7489.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.9	1.2
10°-20°	296.7	4.0
20°-30°	563.0	7.5
30°-40°	886.6	11.8
40°-50°	1237.5	16.5
50°-60°	1530.5	20.4
60°-70°	1586.4	21.2
70°-80°	998.2	13.3
80°-90°	298.4	4.0
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°	7489.3	100.0
0°-180°	7489.3	100.0



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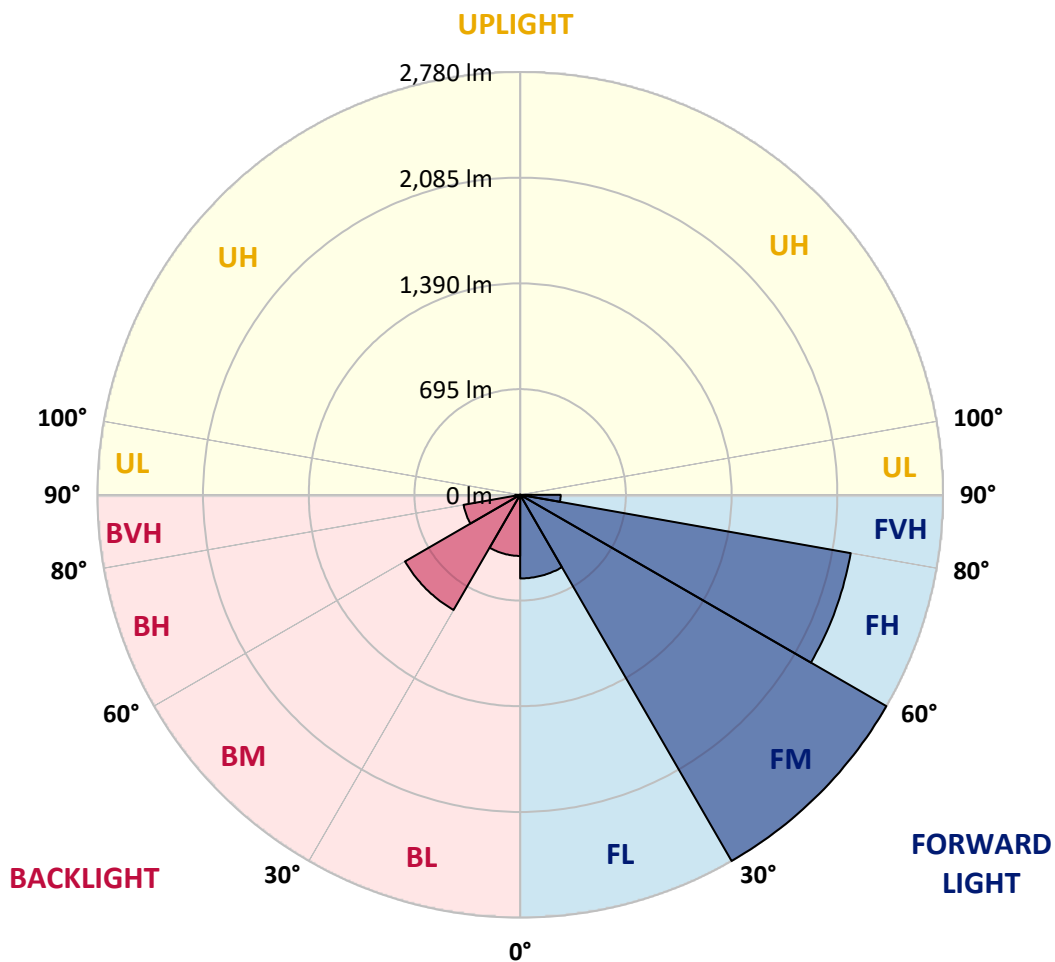
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.8	7.3			
FM	(30°-60°)	2780.1	37.1			
FH	(60°-80°)	2207.0	29.5			G2/5000
FVH	(80°-90°)	265.9	3.6			G3/500
BL	(0°-30°)	401.8	5.4	B1/500		
BM	(30°-60°)	874.5	11.7	B1/1000		
BH	(60°-80°)	377.7	5.0	B1/500		G1/500
BVH	(80°-90°)	32.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	986.6	985.5	985.5	985.5	984.9	983.8	985.5	984.9	982.1	980.4	982.1
5°	999.4	1000.0	1001.6	1002.2	1002.2	1003.9	1008.3	1008.9	1008.3	1009.4	1012.2
7.5°	1011.7	1014.4	1016.1	1018.9	1022.3	1025.0	1032.8	1040.6	1045.7	1049.6	1050.7
10°	1031.7	1036.2	1041.2	1048.4	1056.3	1070.2	1076.9	1084.7	1089.7	1097.5	1099.2
12.5°	1083.0	1088.6	1091.9	1103.1	1113.1	1126.5	1136.0	1138.2	1149.9	1156.6	1164.4
15°	1169.4	1177.8	1189.5	1196.2	1207.3	1219.0	1227.4	1238.5	1240.2	1249.1	1255.2
17.5°	1275.3	1287.0	1311.0	1327.1	1341.6	1353.3	1370.1	1382.9	1385.7	1395.7	1382.9
20°	1423.6	1452.0	1455.9	1488.2	1501.0	1524.5	1557.9	1564.0	1580.2	1564.0	1554.6
22.5°	1624.2	1668.8	1681.1	1712.3	1727.9	1763.6	1773.6	1806.5	1817.6	1805.4	1779.7
25°	1855.0	1924.1	1959.8	2007.7	2015.5	2088.5	2096.3	2134.8	2114.2	2084.6	2085.2
27.5°	2025.0	2142.6	2234.6	2316.5	2373.9	2456.4	2520.5	2538.3	2518.8	2480.4	2467.0
30°	2122.0	2255.2	2387.3	2500.4	2634.2	2760.2	2891.2	2956.4	2967.5	2987.6	2906.8
32.5°	2184.4	2355.5	2512.7	2652.6	2789.7	2951.9	3127.5	3295.3	3436.3	3542.8	3492.6
35°	2236.8	2448.1	2649.3	2818.7	2980.9	3157.6	3334.9	3532.7	3766.3	3902.8	3931.3
37.5°	2258.0	2516.1	2762.4	2979.8	3207.8	3406.8	3582.9	3759.0	4004.3	4247.9	4323.1
40°	2254.1	2549.5	2829.9	3103.0	3382.2	3630.8	3837.1	4045.5	4332.6	4617.4	4740.0
42.5°	2227.9	2554.5	2872.8	3184.9	3503.2	3833.7	4097.4	4337.6	4612.9	4978.0	5151.4
45°	2195.0	2537.2	2881.7	3226.7	3592.9	3975.3	4308.6	4605.7	4928.4	5289.1	5498.6
47.5°	2150.4	2509.9	2870.6	3241.2	3633.1	4066.1	4458.0	4815.3	5170.3	5585.6	5851.5
50°	2101.9	2470.9	2847.7	3230.6	3643.1	4115.8	4543.3	4950.2	5364.9	5813.0	6149.1
52.5°	2067.9	2429.1	2827.1	3208.9	3633.1	4130.8	4574.5	5022.6	5484.1	5947.3	6348.7
55°	2026.1	2373.4	2771.9	3158.2	3596.3	4122.4	4571.1	5047.7	5517.0	5999.2	6457.3
57.5°	2028.9	2347.7	2725.1	3097.4	3521.0	4045.0	4508.2	5022.6	5465.2	5965.7	6461.2
60°	2117.0	2402.9	2749.6	3109.7	3498.7	3995.9	4401.1	4861.0	5313.0	5850.3	6370.9
62.5°	2298.7	2560.6	2875.6	3232.3	3624.1	4094.0	4352.6	4592.3	4993.6	5638.0	6217.1
65°	2515.5	2751.8	3024.9	3364.4	3803.6	4253.4	4325.3	4373.8	4576.7	5225.0	5928.4
67.5°	2732.3	2943.6	3158.2	3439.6	3905.6	4299.1	4213.9	4098.5	4207.7	4745.0	5361.0
70°	2810.4	3090.7	3231.7	3425.2	3828.1	4192.7	4033.8	3743.4	3781.3	4269.6	4720.0
72.5°	2693.3	3092.9	3139.8	3211.7	3483.1	3825.9	3658.1	3284.7	3276.9	3649.8	4013.8
75°	2259.1	2821.5	2820.9	2794.2	2855.5	3050.6	2963.6	2738.4	2833.8	3127.5	3247.3
77.5°	1610.3	2201.7	2229.6	2049.5	2045.1	2133.1	2185.5	2447.5	2793.1	2958.1	2920.2
80°	1011.7	1485.4	1605.3	1382.9	1335.5	1460.4	1784.2	2165.5	2590.7	2739.0	2611.4
82.5°	609.2	957.0	1212.3	1086.4	1075.2	1302.6	1660.5	1808.7	1936.4	2094.1	1880.6
85°	413.6	637.7	829.4	854.5	952.0	1187.2	1342.7	1277.0	1280.3	1239.1	1128.7
87.5°	79.1	173.9	284.3	346.7	384.6	516.7	561.8	508.9	537.3	393.0	429.7
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°	70°	75°	80°	85°	90°	95°	100°	105°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	979.3	979.3	979.3	976.5	977.1	973.2	971.5	971.5	969.9	969.9	969.3
5°	1010.0	1006.6	1008.3	1007.8	1007.8	1002.2	999.4	999.4	992.2	992.7	990.5
7.5°	1055.7	1055.1	1056.8	1053.5	1049.0	1044.5	1040.1	1037.9	1027.8	1021.7	1017.8
10°	1107.5	1107.0	1108.6	1108.1	1100.3	1091.9	1079.7	1070.7	1058.5	1049.0	1039.5
12.5°	1164.4	1163.8	1162.7	1157.7	1149.3	1136.0	1120.4	1105.3	1086.9	1074.6	1060.7
15°	1253.0	1251.3	1244.6	1237.4	1228.5	1207.9	1180.5	1158.8	1134.3	1113.1	1090.3
17.5°	1384.0	1370.1	1368.9	1352.8	1328.8	1301.5	1275.9	1239.6	1204.5	1172.7	1141.5
20°	1564.6	1532.3	1523.3	1504.9	1473.2	1444.8	1389.0	1340.5	1292.6	1249.1	1209.5
22.5°	1761.3	1737.9	1716.2	1686.1	1642.6	1601.4	1530.6	1469.8	1408.5	1352.8	1308.7
25°	2036.1	1995.5	1956.4	1908.5	1848.3	1799.2	1718.4	1657.1	1576.9	1526.1	1462.6
27.5°	2391.2	2321.5	2255.8	2214.5	2108.6	2037.3	1934.1	1855.0	1758.0	1689.4	1614.2
30°	2853.3	2772.5	2674.9	2532.2	2406.2	2264.7	2137.0	2035.6	1932.5	1836.6	1749.6
32.5°	3426.3	3283.6	3129.2	2902.9	2696.1	2494.3	2324.3	2199.5	2094.1	1974.8	1852.2
35°	3910.6	3763.5	3544.4	3256.8	3001.5	2770.8	2567.3	2396.8	2259.1	2108.0	1945.8
37.5°	4293.0	4125.2	3919.6	3614.1	3344.3	3081.8	2868.3	2650.9	2470.3	2262.4	2057.3
40°	4731.1	4562.8	4336.5	4019.9	3700.5	3415.7	3165.4	2940.8	2718.9	2465.3	2201.7
42.5°	5112.9	4991.4	4762.3	4435.1	4081.2	3764.0	3490.4	3233.4	2943.6	2659.9	2347.7
45°	5510.9	5387.2	5169.8	4827.5	4451.3	4097.9	3770.7	3494.3	3152.0	2814.3	2457.0
47.5°	5862.6	5735.5	5515.9	5175.9	4776.3	4403.9	4043.9	3709.4	3312.0	2924.1	2528.3
50°	6198.2	6042.6	5841.4	5502.5	5075.6	4677.6	4286.9	3857.7	3436.3	3001.0	2576.8
52.5°	6506.4	6308.5	6117.9	5769.0	5307.5	4891.6	4455.8	3983.7	3512.7	3061.7	2609.7
55°	6681.4	6553.8	6325.8	5983.0	5472.4	5038.8	4562.8	4072.3	3588.5	3104.7	2623.6
57.5°	6735.5	6704.3	6513.1	6106.7	5569.4	5119.6	4635.2	4142.5	3639.2	3116.9	2604.1
60°	6692.6	6749.4	6644.6	6193.7	5613.5	5143.6	4670.9	4192.7	3648.1	3077.9	2545.0
62.5°	6554.9	6684.2	6670.8	6222.7	5590.6	5113.5	4667.0	4167.0	3564.5	2956.4	2412.4
65°	6328.6	6491.3	6548.8	6115.1	5461.8	5003.7	4567.8	4006.0	3332.1	2718.9	2190.0
67.5°	5902.7	6149.1	6204.8	5762.8	5125.2	4699.9	4281.9	3671.5	2901.8	2351.6	1842.7
70°	5049.4	5480.2	5555.5	5091.7	4531.6	4158.1	3803.6	3141.4	2416.3	1886.2	1414.1
72.5°	4031.0	4301.9	4455.8	4136.4	3719.5	3448.6	3179.9	2410.1	1823.2	1391.8	973.2
75°	3151.5	3135.3	3273.0	3060.6	2815.4	2688.8	2487.1	1681.6	1221.2	921.9	615.9
77.5°	2694.4	2487.1	2330.4	2181.1	2035.6	1995.5	1802.0	1043.4	754.7	552.4	368.4
80°	2239.6	1861.1	1575.2	1365.0	1313.2	1392.4	1179.4	615.4	447.0	317.2	231.3
82.5°	1600.3	1338.8	1089.7	956.5	867.9	993.8	695.6	341.7	242.5	190.1	153.3
85°	1037.3	991.6	981.0	937.5	830.0	783.7	528.4	294.3	181.7	118.2	95.3
87.5°	399.1	511.7	590.3	632.6	683.9	609.2	275.3	101.4	99.8	61.3	46.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	965.4	963.2	962.6	960.9	959.8	959.8	957.0	906.3	905.8	905.8	905.2
5°	986.0	983.2	980.4	979.9	977.7	977.7	974.9	924.2	924.2	924.2	923.0
7.5°	1013.9	1008.3	1005.0	1003.3	1000.0	1001.6	1003.9	952.6	953.1	952.6	953.7
10°	1034.0	1030.6	1026.7	1025.6	1023.4	1025.0	1028.4	977.7	979.3	979.9	981.0
12.5°	1053.5	1047.9	1042.9	1041.2	1040.1	1044.5	1048.4	999.4	1001.1	1002.7	1002.7
15°	1077.4	1068.0	1061.3	1057.4	1055.1	1059.6	1065.2	1016.7	1017.2	1018.9	1018.3
17.5°	1118.1	1104.2	1088.6	1085.8	1078.5	1080.2	1081.3	1027.3	1025.0	1021.1	1014.4
20°	1181.1	1159.9	1138.7	1129.8	1115.3	1109.2	1096.9	1027.8	1013.9	1002.2	992.2
22.5°	1271.4	1240.2	1217.3	1202.3	1172.7	1152.1	1118.7	1025.0	998.8	978.8	963.2
25°	1417.4	1380.1	1345.0	1307.1	1260.8	1219.6	1170.5	1049.6	1008.9	974.3	944.2
27.5°	1559.6	1500.5	1446.4	1389.6	1324.4	1262.5	1193.4	1057.4	1011.1	966.5	917.5
30°	1666.0	1580.2	1498.3	1415.2	1329.9	1249.7	1171.6	1030.6	975.4	925.3	873.4
32.5°	1730.7	1619.2	1512.8	1409.6	1309.3	1219.0	1131.5	984.3	923.6	864.5	809.3
35°	1792.0	1653.8	1521.7	1400.2	1285.3	1185.0	1090.8	930.3	857.8	794.8	725.2
37.5°	1867.8	1690.0	1527.2	1382.9	1250.2	1135.4	1031.7	862.3	789.8	712.3	646.6
40°	1958.7	1727.3	1521.7	1348.3	1195.6	1070.2	960.4	790.9	710.1	634.9	570.2
42.5°	2045.1	1760.2	1507.2	1302.1	1136.0	1002.2	895.2	727.4	646.6	569.7	505.6
45°	2109.2	1788.1	1499.9	1269.7	1090.3	955.9	837.8	676.1	590.8	513.4	448.1
47.5°	2153.7	1804.8	1496.6	1251.9	1058.5	908.0	785.4	624.8	535.1	457.1	393.5
50°	2177.2	1804.3	1488.2	1232.4	1011.7	850.6	731.3	573.0	483.8	407.5	349.5
52.5°	2183.3	1794.2	1470.4	1196.7	954.8	793.2	673.3	518.9	438.7	365.6	307.1
55°	2169.4	1769.7	1433.0	1137.1	894.1	732.4	620.4	476.6	394.6	325.5	279.8
57.5°	2129.8	1726.2	1362.8	1055.1	830.0	676.1	559.6	425.3	346.7	288.7	250.8
60°	2056.2	1634.3	1253.0	958.2	748.6	590.3	476.0	358.4	296.0	252.5	221.8
62.5°	1920.2	1489.9	1098.6	824.4	631.5	478.8	380.1	285.9	239.1	210.7	191.7
65°	1701.1	1272.5	919.7	649.4	479.9	348.4	282.6	215.2	181.2	163.9	158.3
67.5°	1388.5	982.7	668.9	450.9	325.0	244.1	196.8	157.2	141.0	134.3	132.1
70°	1009.4	669.4	433.1	284.8	214.6	170.6	148.8	126.5	117.6	115.9	115.9
72.5°	633.8	406.9	265.3	195.1	162.8	138.2	127.1	111.5	108.1	107.0	105.3
75°	371.8	246.9	187.8	160.0	139.3	123.7	114.3	101.4	99.2	98.7	97.0
77.5°	236.9	177.8	151.6	136.6	126.0	112.0	103.7	90.3	89.7	89.2	88.6
80°	170.0	147.7	132.7	121.0	110.4	97.5	92.5	81.9	80.8	80.3	81.4
82.5°	128.8	122.1	115.9	107.0	92.5	83.1	79.1	71.9	72.5	69.7	69.1
85°	88.6	87.5	87.0	83.1	72.5	64.1	61.3	57.4	60.2	57.4	54.1
87.5°	43.5	42.9	39.6	46.8	43.5	34.6	31.2	34.6	38.5	37.3	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158773

CATALOG NUMBER: VTS-F04-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	903.0	900.7	902.4	901.3	901.3	900.7	901.9	900.2	899.1	900.2	900.7
5°	920.8	918.0	918.6	914.7	916.3	912.4	913.6	910.8	908.0	906.9	906.9
7.5°	950.9	948.1	944.8	944.2	938.1	935.9	932.0	929.7	928.1	924.2	921.9
10°	978.2	973.8	969.9	969.3	963.2	957.6	952.6	948.1	945.3	939.8	937.0
12.5°	1000.5	996.1	989.9	986.6	980.4	973.8	970.4	963.7	959.8	953.7	948.7
15°	1013.3	1005.5	996.6	990.5	981.6	974.3	969.3	964.3	960.4	952.6	945.3
17.5°	1007.2	994.4	982.1	971.0	958.7	952.0	944.8	938.6	937.5	928.6	917.5
20°	981.6	966.5	950.3	935.3	919.1	909.7	900.7	891.3	888.5	877.9	863.4
22.5°	950.3	933.1	914.7	896.3	875.7	862.3	848.9	837.2	827.7	812.1	791.5
25°	918.6	892.9	866.2	842.8	818.8	802.1	788.1	775.3	764.2	739.1	717.9
27.5°	876.8	836.6	809.3	782.6	753.6	731.9	716.2	698.4	686.1	657.2	634.9
30°	823.3	783.1	744.1	717.4	688.4	665.0	644.9	619.3	601.4	580.2	559.6
32.5°	755.8	715.7	676.1	646.0	622.0	593.1	568.0	543.5	522.8	502.2	486.0
35°	673.9	634.9	597.5	567.4	540.7	517.8	493.8	472.7	449.3	427.0	417.5
37.5°	587.5	545.7	504.4	478.2	457.1	440.9	418.6	401.3	380.1	366.8	355.6
40°	512.2	467.6	428.6	406.3	389.6	371.2	352.8	339.4	324.4	311.0	302.7
42.5°	448.7	406.9	373.5	354.5	334.4	314.4	300.4	289.3	279.8	269.8	259.7
45°	390.2	350.0	322.2	298.8	282.0	265.9	256.4	251.4	245.8	239.7	233.0
47.5°	341.1	306.6	279.3	257.5	240.2	229.1	224.6	223.0	220.7	215.7	212.4
50°	303.8	275.3	247.5	228.0	213.5	207.9	202.9	201.2	198.4	196.8	194.5
52.5°	272.6	242.5	219.1	201.2	192.3	190.1	187.8	185.6	185.1	183.9	182.8
55°	246.9	220.7	199.0	185.6	181.2	179.5	178.9	176.7	176.1	176.1	174.5
57.5°	224.1	201.8	182.3	173.9	171.1	169.4	168.3	167.2	167.2	168.3	167.8
60°	200.7	181.7	170.0	165.5	163.9	161.1	158.3	157.2	157.7	160.5	160.5
62.5°	177.8	163.9	156.6	155.0	153.3	151.1	147.7	146.6	147.7	151.1	152.7
65°	152.7	146.6	144.4	143.2	142.1	140.5	138.2	137.1	137.7	139.3	141.6
67.5°	129.9	129.3	129.3	129.9	129.3	128.8	127.6	126.0	125.4	125.4	126.5
70°	115.9	115.9	117.6	117.6	117.1	117.1	115.4	113.7	112.6	111.5	112.0
72.5°	105.3	105.3	105.9	106.5	105.9	105.9	103.7	102.6	99.8	99.2	98.1
75°	96.4	95.3	95.3	94.8	94.2	94.8	92.5	89.7	88.6	88.1	87.0
77.5°	87.5	85.3	84.2	83.1	83.6	83.1	81.4	79.7	78.0	77.5	76.9
80°	77.5	74.1	72.5	69.7	71.3	71.9	70.8	69.1	68.6	68.0	67.4
82.5°	64.1	60.8	58.5	56.9	55.7	56.9	58.5	62.4	61.3	60.8	59.6
85°	50.2	44.6	41.8	42.4	39.6	40.1	45.1	47.4	47.4	48.5	47.4
87.5°	28.4	27.3	20.6	19.0	20.1	24.0	26.8	29.5	29.5	27.9	31.2
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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CATALOG NUMBER: VTS-F04-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	900.7	901.9	902.4	904.6	905.8	906.3	906.9	908.0	908.5	908.0	910.8
5°	905.2	905.2	904.1	905.8	906.3	906.3	905.2	906.3	906.3	906.3	909.1
7.5°	916.9	913.6	911.9	909.7	908.0	905.8	903.0	903.0	902.4	903.0	904.6
10°	929.2	924.2	918.0	912.4	907.4	903.5	898.5	896.8	896.3	895.7	900.2
12.5°	938.6	929.7	920.2	910.8	900.7	894.1	885.7	880.7	880.1	880.1	885.7
15°	932.0	917.5	899.1	882.3	873.4	864.0	854.5	848.3	847.8	848.9	852.2
17.5°	898.5	875.1	858.9	842.8	831.1	823.3	817.1	816.0	818.2	816.0	820.5
20°	841.7	816.6	805.4	792.6	788.1	782.6	773.7	765.9	765.9	755.8	758.6
22.5°	768.1	754.1	739.7	729.6	726.3	716.8	707.3	696.7	695.6	683.4	681.7
25°	691.2	677.2	665.5	663.3	653.3	640.4	631.5	619.3	616.5	604.2	602.5
27.5°	612.6	601.4	589.7	583.0	577.5	563.5	555.7	541.2	535.7	522.3	520.6
30°	537.9	530.1	516.1	510.6	500.0	483.8	467.1	458.2	453.7	439.8	435.3
32.5°	467.6	455.4	444.8	438.1	424.7	406.3	391.3	378.5	370.1	353.4	348.9
35°	400.8	388.5	383.5	366.2	354.5	342.2	321.6	313.8	298.8	285.9	281.5
37.5°	341.7	330.0	323.3	308.8	297.1	284.8	272.6	262.5	255.3	252.5	252.5
40°	291.0	284.8	276.5	265.9	258.1	249.2	242.5	239.1	238.6	239.7	242.5
42.5°	254.7	248.0	242.5	236.9	231.3	230.2	228.5	230.8	233.5	236.3	239.1
45°	227.4	221.8	218.5	216.3	215.7	217.4	220.7	224.1	229.1	232.4	234.7
47.5°	207.9	203.4	202.3	201.8	204.6	209.6	214.0	219.1	223.0	226.3	228.5
50°	191.2	187.3	186.7	186.2	190.1	194.5	198.4	205.1	207.9	210.1	211.8
52.5°	179.5	176.1	174.5	175.0	178.9	182.8	188.4	193.4	197.3	199.0	200.7
55°	170.0	168.9	165.0	166.7	170.6	175.6	181.2	186.7	190.6	193.4	196.2
57.5°	162.8	160.0	157.2	160.0	163.9	168.9	175.6	180.6	185.6	189.5	192.3
60°	155.0	152.7	150.5	153.3	157.2	162.2	167.2	173.9	180.0	183.9	186.7
62.5°	148.3	146.6	144.4	144.9	146.6	149.9	152.7	158.9	164.4	169.4	172.8
65°	138.8	138.2	134.9	135.4	136.6	139.9	142.1	147.7	153.3	157.7	160.5
67.5°	124.9	123.7	123.7	125.4	126.0	127.6	129.3	134.9	139.3	142.7	146.0
70°	110.9	110.4	110.4	111.5	110.9	112.6	114.8	119.8	125.4	128.8	132.1
72.5°	97.5	97.5	97.0	98.1	98.1	98.7	101.4	105.9	110.9	113.7	115.9
75°	85.8	85.3	85.3	85.3	85.8	85.8	88.6	92.5	97.5	99.2	102.6
77.5°	75.2	75.2	75.2	75.2	75.8	75.2	76.9	79.7	81.4	84.2	84.2
80°	66.3	65.8	66.3	66.9	66.9	66.3	66.3	66.9	67.4	67.4	67.4
82.5°	58.5	56.9	58.0	60.8	60.8	60.8	60.2	56.3	53.5	53.5	54.6
85°	46.8	46.8	47.4	51.3	51.8	49.6	51.8	46.3	40.7	39.0	40.1
87.5°	29.0	22.9	27.9	31.8	31.8	30.1	33.4	31.2	26.2	21.2	20.1
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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 CATALOG NUMBER: VTS-F04-LED-E1-SLL-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	0°
2.5°	913.0	913.6	916.9	918.6	918.6	920.8	921.9	925.3	924.7	924.7	925.8	2.5°
5°	911.9	913.6	916.9	919.1	920.2	923.0	925.3	929.2	928.6	929.7	930.3	5°
7.5°	908.0	912.4	915.8	920.2	924.2	926.4	929.2	932.5	931.4	932.0	931.4	7.5°
10°	904.6	909.1	915.8	921.9	927.5	930.8	932.5	936.4	935.9	937.0	937.0	10°
12.5°	891.3	899.1	907.4	916.9	925.3	934.2	939.8	948.1	952.0	957.0	962.6	12.5°
15°	857.3	866.2	879.6	890.1	906.3	918.6	934.7	950.9	965.4	979.3	995.5	15°
17.5°	823.8	827.7	838.3	852.8	867.3	885.7	905.2	934.2	960.4	988.8	1020.0	17.5°
20°	761.9	768.6	775.9	793.2	810.4	836.6	860.6	898.5	937.0	981.6	1029.5	20°
22.5°	685.6	692.3	700.1	719.6	740.8	767.5	796.5	838.9	890.1	948.1	1012.2	22.5°
25°	603.1	607.0	613.1	632.6	645.5	680.6	715.7	759.7	815.5	890.1	964.8	25°
27.5°	512.2	519.5	524.5	533.4	563.0	593.1	629.8	677.2	744.7	821.0	911.3	27.5°
30°	425.3	431.4	428.6	447.6	467.1	498.9	538.4	590.8	655.5	746.3	850.6	30°
32.5°	340.0	344.5	342.8	356.2	375.7	407.5	444.8	501.6	570.2	667.2	780.3	32.5°
35°	280.4	281.5	287.6	293.7	310.5	336.1	367.9	417.5	487.7	576.9	696.7	35°
37.5°	252.5	254.7	258.6	267.0	279.3	297.6	323.8	362.3	422.5	501.1	608.1	37.5°
40°	244.1	245.8	248.0	253.6	265.3	281.5	304.9	337.2	381.3	447.6	534.5	40°
42.5°	240.2	240.2	240.2	243.6	252.5	269.8	296.5	328.3	366.8	416.9	487.2	42.5°
45°	234.7	234.7	234.1	235.8	241.9	259.2	288.2	323.8	365.1	413.0	473.8	45°
47.5°	228.5	228.0	226.3	226.3	230.2	247.5	277.6	316.0	361.2	416.4	481.6	47.5°
50°	211.8	211.8	211.8	213.5	216.8	232.4	264.8	305.4	357.3	418.6	493.8	50°
52.5°	202.3	202.9	204.6	204.6	207.9	224.1	258.1	303.2	359.5	427.0	509.5	52.5°
55°	197.9	199.5	201.2	201.2	204.0	220.7	255.8	304.9	367.9	444.2	536.2	55°
57.5°	194.0	195.6	196.8	196.8	199.0	213.5	249.7	302.1	372.9	461.0	569.1	57.5°
60°	186.7	187.8	188.4	188.4	189.0	201.2	235.8	288.7	361.7	459.8	586.9	60°
62.5°	173.3	175.6	176.1	176.7	176.7	188.4	217.9	267.0	337.8	443.1	581.9	62.5°
65°	163.3	164.4	166.1	167.2	169.4	177.2	200.7	240.8	306.6	409.7	554.0	65°
67.5°	147.7	149.4	151.1	153.3	155.5	160.5	178.9	211.3	264.2	352.8	491.6	67.5°
70°	133.8	134.3	136.0	138.8	139.3	142.1	155.5	177.8	216.3	283.2	395.7	70°
72.5°	116.5	117.6	119.8	123.2	123.2	125.4	133.2	144.9	169.4	216.3	292.1	72.5°
75°	101.4	102.6	104.2	104.2	101.4	102.0	107.6	115.9	134.3	162.8	212.9	75°
77.5°	84.2	86.4	88.1	84.7	83.6	85.3	88.1	94.2	107.6	129.3	160.0	77.5°
80°	69.7	70.8	71.3	71.9	70.8	72.5	74.7	78.6	87.5	104.2	126.5	80°
82.5°	55.7	56.9	58.5	60.8	60.8	66.9	67.4	67.4	72.5	83.1	99.2	82.5°
85°	41.2	43.5	45.7	48.5	49.1	52.4	50.7	50.2	51.8	61.9	68.6	85°
87.5°	21.2	22.9	24.0	26.2	23.4	24.5	24.5	22.9	20.1	25.1	27.9	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P158773

NUMBER: VTS-F04-LED-E1-SLL-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
931.4	931.4	931.4	931.4	931.4	931.4	931.4
926.9	925.8	926.9	926.9	928.6	927.5	986.6
931.4	930.3	931.4	932.5	934.2	934.2	999.4
932.0	932.0	930.8	933.6	935.9	938.1	1011.7
938.6	938.6	939.8	940.3	945.3	950.9	1031.7
966.0	968.7	973.8	975.4	984.3	990.5	1083.0
1007.8	1023.4	1033.4	1036.7	1044.5	1056.3	1169.4
1050.1	1076.3	1103.6	1120.4	1130.4	1144.3	1275.3
1081.9	1130.9	1177.8	1219.6	1243.5	1270.8	1423.6
1084.7	1162.7	1241.9	1319.3	1383.4	1434.2	1624.2
1057.9	1160.5	1269.7	1388.5	1498.8	1590.2	1855.0
1023.9	1149.9	1289.2	1440.8	1585.8	1720.7	2025.0
981.0	1132.1	1292.6	1463.1	1633.1	1795.3	2122.0
915.8	1079.1	1252.5	1440.8	1638.2	1835.5	2184.4
832.2	998.8	1176.6	1391.2	1614.8	1851.6	2236.8
746.9	911.3	1102.5	1324.9	1577.4	1848.9	2258.0
656.6	819.9	1015.6	1254.1	1526.7	1823.2	2254.1
595.3	744.1	935.9	1182.2	1470.4	1789.2	2227.9
559.6	690.0	872.9	1116.4	1419.1	1748.5	2195.0
559.1	673.9	839.4	1069.6	1367.3	1703.4	2150.4
578.6	683.9	835.5	1049.6	1338.8	1670.5	2101.9
601.4	711.8	856.1	1056.8	1338.3	1656.0	2067.9
637.7	759.2	901.3	1088.0	1352.8	1653.8	2026.1
683.9	823.3	982.7	1164.9	1409.1	1697.8	2028.9
731.3	898.5	1089.1	1296.5	1520.0	1800.4	2117.0
748.6	956.5	1197.3	1450.9	1686.1	1954.2	2298.7
733.5	969.9	1263.0	1570.7	1847.7	2134.2	2515.5
677.8	915.8	1236.3	1604.7	1940.8	2261.9	2732.3
557.9	781.5	1114.8	1528.4	1933.6	2288.1	2810.4
409.1	605.9	906.3	1298.7	1719.0	2124.2	2693.3
295.4	428.6	654.4	978.2	1358.9	1710.6	2259.1
211.8	297.1	424.7	642.7	925.8	1191.1	1610.3
152.2	201.8	264.8	385.7	564.1	731.3	1011.7
112.0	138.2	173.9	239.7	332.2	425.8	609.2
76.4	81.4	104.8	141.6	217.9	313.3	413.6
29.0	32.9	38.5	58.0	97.5	112.0	79.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)