

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: INVUE

Report Number: P141576

Luminaire Tested: **ECM-F04-LED-E1-SLR-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141576
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-F04-LED-E1-SLR-7050
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8862.2 lumens
Efficiency: N/A
Efficacy: 86.7 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

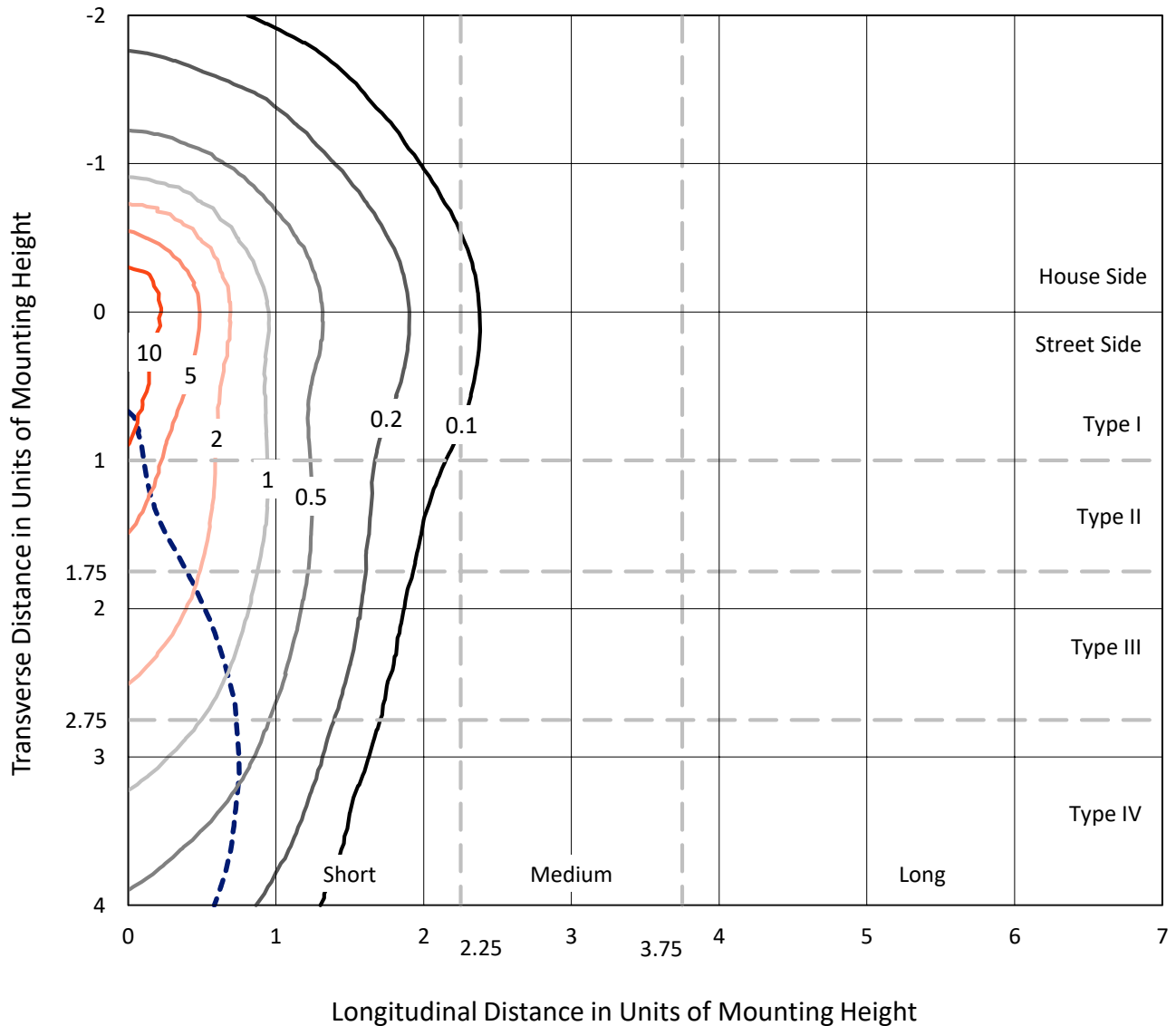
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

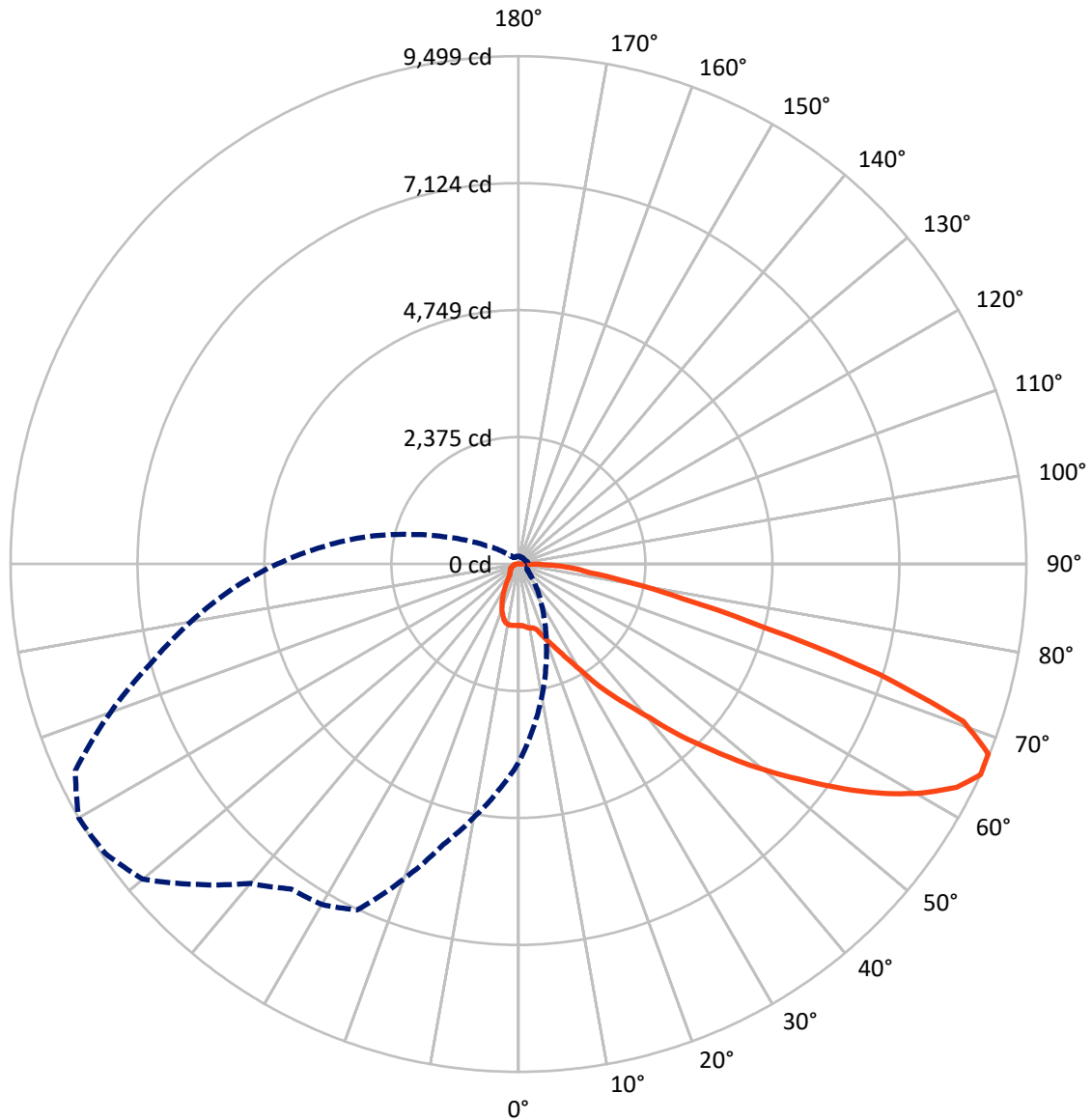
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1643.7	0.0	1643.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	7218.5	0.0	7218.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	8862.2	0.0	8862.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.5	1.3
10°-20°	334.7	3.8
20°-30°	556.1	6.3
30°-40°	813.0	9.2
40°-50°	1236.7	14.0
50°-60°	1777.7	20.1
60°-70°	2185.6	24.7
70°-80°	1462.1	16.5
80°-90°	384.7	4.3
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°	8862.2	100.0
0°-180°	8862.2	100.0



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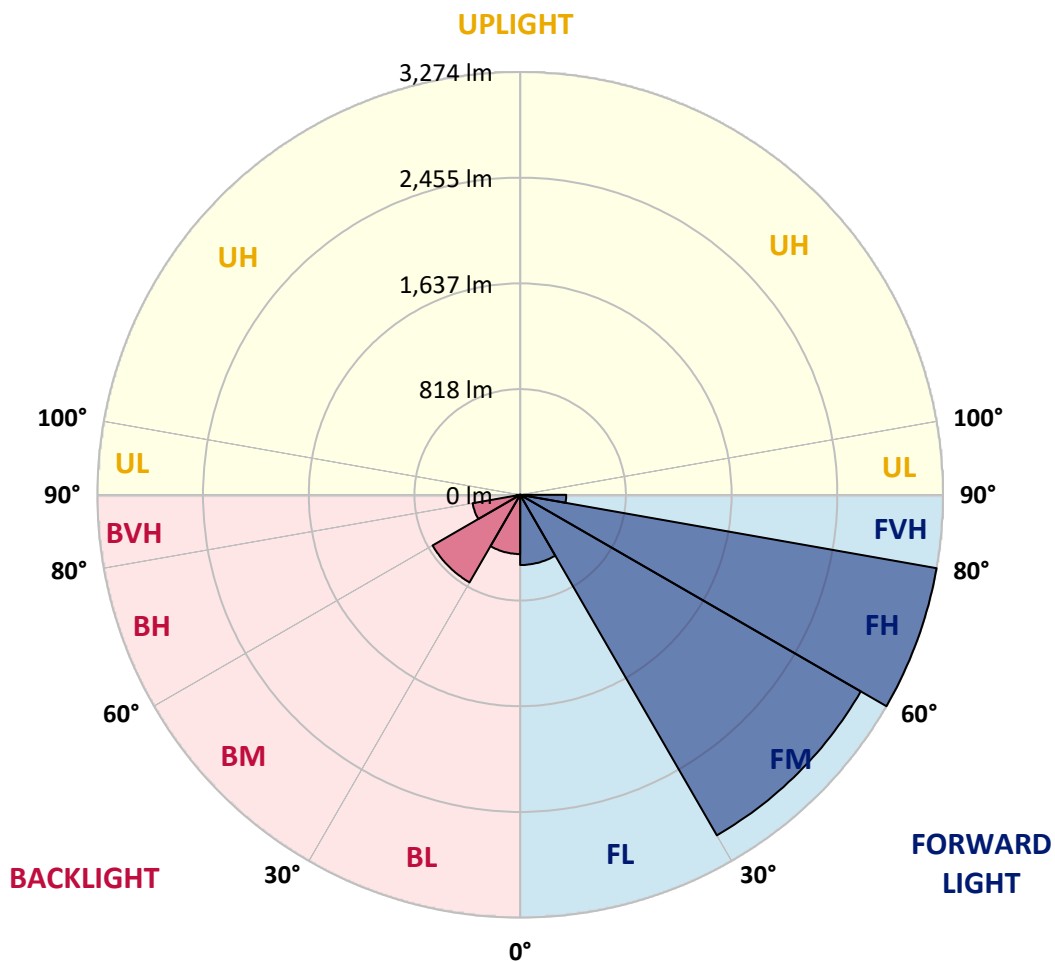
CATALOG NUMBER: ECM-F04-LED-E1-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	543.6	6.1			
FM	(30°-60°)	3044.5	34.4			
FH	(60°-80°)	3273.7	36.9			G2/5000
FVH	(80°-90°)	356.7	4.0			G3/500
BL	(0°-30°)	458.7	5.2	B1/500		
BM	(30°-60°)	782.9	8.8	B1/1000		
BH	(60°-80°)	374.1	4.2	B1/500		G1/500
BVH	(80°-90°)	28.0	0.3			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°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1153.2	1156.5	1156.5	1154.3	1153.2	1154.3	1155.4	1154.3	1155.4	1157.7	1156.5
5°	1138.5	1140.7	1141.9	1141.9	1141.9	1144.1	1147.5	1146.4	1149.8	1152.0	1152.0
7.5°	1103.5	1108.0	1108.0	1109.1	1111.4	1114.8	1120.4	1122.7	1128.3	1136.2	1138.5
10°	1082.0	1083.1	1079.7	1078.6	1080.9	1087.6	1091.0	1096.7	1105.7	1114.8	1123.8
12.5°	1087.6	1088.8	1083.1	1084.3	1084.3	1087.6	1097.8	1102.3	1105.7	1111.4	1120.4
15°	1134.0	1134.0	1127.2	1129.4	1130.6	1135.1	1135.1	1127.2	1124.9	1119.3	1114.8
17.5°	1196.1	1187.0	1185.9	1184.8	1189.3	1184.8	1174.6	1156.5	1135.1	1112.5	1094.4
20°	1260.4	1261.6	1254.8	1253.7	1241.2	1225.4	1196.1	1159.9	1121.5	1086.5	1050.4
22.5°	1356.5	1358.7	1346.3	1321.4	1294.3	1252.5	1199.5	1144.1	1088.8	1040.2	998.4
25°	1502.1	1478.4	1450.2	1398.2	1329.3	1255.9	1182.5	1113.6	1041.3	977.0	923.9
27.5°	1646.7	1599.3	1523.6	1438.9	1341.8	1246.9	1159.9	1067.3	981.5	903.5	842.6
30°	1781.1	1693.0	1584.6	1463.7	1339.5	1217.5	1106.8	1001.8	900.2	816.6	744.3
32.5°	1917.8	1789.0	1638.8	1469.4	1305.6	1159.9	1032.3	911.5	810.9	709.3	631.4
35°	2089.5	1895.2	1671.6	1447.9	1246.9	1069.6	932.9	817.7	709.3	606.5	525.2
37.5°	2246.4	1979.9	1688.5	1411.8	1170.1	975.8	825.6	708.2	606.5	519.5	449.5
40°	2361.6	2035.2	1686.2	1365.5	1092.2	879.8	731.9	625.7	534.2	465.3	411.1
42.5°	2452.0	2066.9	1675.0	1321.4	1024.4	809.8	670.9	573.8	501.5	446.1	404.3
45°	2514.1	2089.5	1668.2	1286.4	979.2	775.9	650.6	569.2	508.2	458.6	411.1
47.5°	2568.3	2115.4	1665.9	1270.6	969.1	786.1	677.7	604.2	537.6	473.2	410.0
50°	2622.5	2141.4	1686.2	1296.6	1007.5	842.6	740.9	647.2	555.7	468.7	390.8
52.5°	2697.1	2217.1	1761.9	1371.1	1091.0	921.6	800.8	682.2	559.1	457.4	372.7
55°	2808.9	2334.5	1870.3	1469.4	1181.4	1007.5	849.3	695.7	555.7	445.0	355.8
57.5°	2991.9	2507.3	2018.3	1606.1	1298.8	1074.1	876.4	701.4	547.8	431.4	342.2
60°	3223.4	2705.0	2204.7	1749.5	1399.4	1120.4	887.7	699.1	536.5	415.6	323.0
62.5°	3486.6	2921.8	2372.9	1880.5	1471.7	1141.9	883.2	681.0	510.5	382.9	295.9
65°	3718.1	3094.6	2514.1	1985.5	1516.8	1141.9	855.0	639.3	464.2	336.6	260.9
67.5°	3907.8	3240.3	2622.5	2046.5	1521.3	1102.3	787.2	563.6	390.8	279.0	220.2
70°	4007.2	3286.7	2656.4	2039.8	1445.7	988.3	663.0	438.2	286.9	216.9	177.3
72.5°	3897.7	3177.1	2511.9	1843.2	1206.2	737.5	464.2	298.2	205.6	168.3	146.8
75°	3468.5	2696.0	2090.6	1425.3	864.0	459.7	288.0	208.9	162.6	140.0	128.8
77.5°	2589.8	2009.3	1438.9	902.4	494.7	279.0	202.2	159.3	136.7	123.1	112.9
80°	1628.6	1237.9	865.1	497.0	282.4	205.6	168.3	142.3	124.2	107.3	97.1
82.5°	906.9	659.6	440.5	283.5	196.5	166.0	145.7	131.0	110.7	93.7	83.6
85°	620.1	407.7	277.8	186.4	135.5	120.8	108.4	99.4	84.7	71.2	65.5
87.5°	251.9	234.9	170.5	74.5	55.3	49.7	44.0	54.2	45.2	35.0	32.8
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°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1158.8	1156.5	1157.7	1156.5	1155.4	1154.3	1153.2	1154.3	1152.0	1153.2	1153.2
5°	1155.4	1153.2	1156.5	1155.4	1153.2	1153.2	1152.0	1152.0	1152.0	1152.0	1153.2
7.5°	1145.2	1145.2	1148.6	1148.6	1146.4	1146.4	1144.1	1143.0	1143.0	1144.1	1146.4
10°	1131.7	1135.1	1140.7	1138.5	1134.0	1131.7	1128.3	1126.0	1124.9	1127.2	1129.4
12.5°	1121.5	1123.8	1120.4	1117.0	1110.2	1102.3	1101.2	1095.6	1092.2	1097.8	1097.8
15°	1104.6	1095.6	1083.1	1071.8	1056.0	1048.1	1039.1	1036.8	1028.9	1030.0	1035.7
17.5°	1068.4	1044.7	1025.5	1014.2	1000.7	995.0	984.9	979.2	973.6	967.9	971.3
20°	1017.6	991.6	966.8	952.1	930.7	926.1	909.2	909.2	902.4	903.5	910.3
22.5°	953.2	913.7	882.1	864.0	841.4	832.4	824.5	818.8	815.5	822.2	814.3
25°	868.5	821.1	791.7	765.8	740.9	731.9	721.7	718.3	719.4	714.9	722.8
27.5°	781.6	722.8	691.2	661.8	643.8	628.0	620.1	617.8	613.3	625.7	618.9
30°	672.0	618.9	581.7	551.2	529.7	521.8	513.9	511.6	518.4	509.4	504.9
32.5°	561.3	503.7	472.1	446.1	430.3	414.5	412.2	407.7	399.8	410.0	407.7
35°	460.8	412.2	379.5	363.7	342.2	335.4	321.9	318.5	319.6	321.9	320.8
37.5°	399.8	365.9	336.6	315.1	299.3	290.3	285.7	281.2	281.2	279.0	277.8
40°	371.6	343.3	316.2	295.9	283.5	276.7	272.2	267.7	264.3	260.9	257.5
42.5°	367.1	333.2	302.7	282.4	271.1	268.8	267.7	264.3	259.8	254.1	249.6
45°	363.7	320.8	289.1	271.1	263.2	262.0	262.0	258.6	255.3	249.6	242.8
47.5°	352.4	304.9	274.5	260.9	257.5	258.6	257.5	254.1	251.9	246.2	238.3
50°	327.5	281.2	251.9	241.7	240.6	239.4	239.4	238.3	236.1	231.5	223.6
52.5°	306.1	259.8	236.1	229.3	227.0	227.0	224.8	223.6	219.1	215.7	210.1
55°	292.5	248.5	228.1	223.6	223.6	222.5	220.2	216.9	213.5	208.9	202.2
57.5°	280.1	239.4	222.5	219.1	220.2	219.1	216.9	214.6	210.1	204.4	196.5
60°	262.0	225.9	211.2	210.1	212.3	214.6	213.5	212.3	208.9	201.0	189.7
62.5°	236.1	203.3	192.0	194.3	196.5	198.8	197.7	196.5	193.1	186.4	176.2
65°	210.1	186.4	179.6	181.8	184.1	184.1	184.1	181.8	179.6	171.7	163.8
67.5°	185.2	170.5	168.3	170.5	171.7	171.7	172.8	170.5	167.2	161.5	153.6
70°	158.1	151.3	151.3	153.6	154.7	153.6	154.7	151.3	148.0	144.6	136.7
72.5°	141.2	141.2	140.0	140.0	140.0	137.8	136.7	134.4	131.0	127.6	120.8
75°	125.4	125.4	124.2	126.5	122.0	118.6	117.5	115.2	111.8	107.3	102.8
77.5°	107.3	105.0	105.0	108.4	107.3	102.8	99.4	98.3	93.7	89.2	87.0
80°	92.6	90.4	90.4	89.2	87.0	85.8	81.3	76.8	75.7	75.7	72.3
82.5°	81.3	80.2	76.8	74.5	71.2	67.8	64.4	62.1	58.7	57.6	58.7
85°	64.4	65.5	62.1	59.9	56.5	52.0	48.6	46.3	44.0	44.0	48.6
87.5°	37.3	35.0	35.0	33.9	32.8	29.4	29.4	26.0	24.8	31.6	32.8
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°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1154.3	1154.3	1150.9	1153.2	1152.0	1153.2	1157.7	1153.2	1152.0	1155.4	1158.8
5°	1154.3	1156.5	1153.2	1155.4	1155.4	1158.8	1164.4	1161.1	1163.3	1167.8	1172.4
7.5°	1149.8	1153.2	1153.2	1157.7	1161.1	1166.7	1174.6	1172.4	1176.9	1183.6	1189.3
10°	1137.3	1143.0	1148.6	1155.4	1163.3	1172.4	1183.6	1183.6	1188.2	1197.2	1202.8
12.5°	1106.8	1121.5	1128.3	1144.1	1156.5	1170.1	1182.5	1190.4	1193.8	1201.7	1208.5
15°	1045.9	1063.9	1077.5	1096.7	1117.0	1136.2	1157.7	1165.6	1172.4	1175.7	1179.1
17.5°	975.8	988.3	997.3	1022.1	1044.7	1062.8	1083.1	1093.3	1101.2	1101.2	1103.5
20°	918.2	923.9	926.1	926.1	939.7	956.6	982.6	979.2	986.0	979.2	986.0
22.5°	829.0	820.0	824.5	824.5	833.5	830.1	840.3	857.2	855.0	859.5	878.7
25°	720.6	721.7	713.8	713.8	714.9	717.2	721.7	726.2	742.0	759.0	771.4
27.5°	617.8	615.5	609.9	605.4	600.9	608.8	614.4	613.3	635.9	649.4	672.0
30°	504.9	504.9	506.0	503.7	508.2	502.6	511.6	513.9	533.1	547.8	568.1
32.5°	411.1	413.4	413.4	412.2	420.1	414.5	419.0	424.7	437.1	449.5	459.7
35°	326.4	329.8	338.8	342.2	345.6	341.1	346.7	353.5	354.6	365.9	373.8
37.5°	276.7	282.4	283.5	285.7	285.7	289.1	290.3	294.8	294.8	298.2	300.4
40°	255.3	253.0	251.9	250.7	248.5	249.6	250.7	254.1	255.3	257.5	257.5
42.5°	245.1	241.7	236.1	232.7	228.1	228.1	228.1	228.1	231.5	233.8	233.8
45°	236.1	230.4	224.8	219.1	215.7	213.5	214.6	215.7	218.0	219.1	220.2
47.5°	230.4	222.5	213.5	207.8	204.4	202.2	203.3	204.4	204.4	205.6	206.7
50°	214.6	206.7	198.8	193.1	189.7	188.6	188.6	187.5	188.6	189.7	189.7
52.5°	202.2	194.3	187.5	181.8	178.5	178.5	177.3	175.1	176.2	175.1	176.2
55°	195.4	185.2	177.3	171.7	168.3	168.3	166.0	167.2	167.2	164.9	166.0
57.5°	187.5	177.3	170.5	163.8	159.3	159.3	158.1	159.3	160.4	157.0	157.0
60°	179.6	170.5	162.6	157.0	151.3	152.5	151.3	153.6	153.6	150.2	150.2
62.5°	164.9	157.0	152.5	149.1	144.6	145.7	145.7	149.1	145.7	143.4	142.3
65°	153.6	148.0	141.2	141.2	136.7	138.9	138.9	138.9	135.5	134.4	135.5
67.5°	145.7	138.9	134.4	129.9	126.5	127.6	125.4	125.4	124.2	123.1	125.4
70°	131.0	125.4	123.1	118.6	116.3	112.9	111.8	111.8	111.8	110.7	111.8
72.5°	116.3	111.8	109.6	105.0	102.8	100.5	99.4	98.3	97.1	98.3	98.3
75°	98.3	96.0	93.7	91.5	89.2	88.1	87.0	87.0	85.8	84.7	85.8
77.5°	84.7	81.3	80.2	77.9	79.1	75.7	74.5	75.7	75.7	75.7	76.8
80°	72.3	70.0	70.0	67.8	66.6	64.4	65.5	65.5	65.5	65.5	66.6
82.5°	63.2	61.0	61.0	59.9	56.5	54.2	55.3	57.6	57.6	56.5	58.7
85°	52.0	49.7	49.7	48.6	44.0	42.9	41.8	44.0	45.2	42.9	45.2
87.5°	33.9	31.6	30.5	30.5	26.0	18.1	23.7	26.0	26.0	21.5	24.8
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1157.7	1159.9	1159.9	1162.2	1166.7	1162.2	1159.9	1163.3	1163.3	1162.2	1162.2
5°	1172.4	1176.9	1178.0	1184.8	1188.2	1185.9	1188.2	1190.4	1191.6	1189.3	1191.6
7.5°	1191.6	1197.2	1202.8	1210.8	1217.5	1216.4	1219.8	1224.3	1225.4	1225.4	1227.7
10°	1207.4	1215.3	1220.9	1231.1	1239.0	1241.2	1244.6	1250.3	1255.9	1255.9	1260.4
12.5°	1210.8	1219.8	1225.4	1234.5	1248.0	1252.5	1260.4	1274.0	1279.6	1284.2	1287.6
15°	1181.4	1189.3	1197.2	1209.6	1225.4	1239.0	1257.1	1276.3	1293.2	1305.6	1310.1
17.5°	1104.6	1105.7	1113.6	1131.7	1164.4	1179.1	1201.7	1241.2	1265.0	1287.6	1309.0
20°	991.6	1013.1	1021.0	1044.7	1076.4	1098.9	1124.9	1161.1	1197.2	1237.9	1274.0
22.5°	892.3	920.5	943.1	971.3	997.3	1023.3	1056.0	1087.6	1127.2	1166.7	1209.6
25°	790.6	816.6	848.2	878.7	909.2	941.9	982.6	1016.5	1056.0	1102.3	1156.5
27.5°	692.3	719.4	754.5	790.6	815.5	859.5	893.4	943.1	988.3	1039.1	1100.1
30°	589.6	615.5	632.5	672.0	707.0	751.1	803.0	851.6	905.8	962.3	1033.4
32.5°	477.8	493.6	517.3	544.4	585.0	631.4	685.6	737.5	812.1	882.1	949.9
35°	382.9	390.8	389.7	420.1	438.2	493.6	561.3	611.0	685.6	771.4	860.6
37.5°	301.6	300.4	307.2	311.7	334.3	370.5	423.5	487.9	573.8	666.4	755.6
40°	257.5	258.6	259.8	259.8	264.3	288.0	335.4	402.1	484.5	567.0	665.2
42.5°	237.2	239.4	240.6	242.8	245.1	253.0	286.9	349.0	419.0	507.1	595.2
45°	222.5	225.9	229.3	229.3	231.5	233.8	253.0	300.4	370.5	454.0	546.6
47.5°	210.1	213.5	215.7	216.9	219.1	221.4	231.5	264.3	332.1	407.7	503.7
50°	192.0	195.4	197.7	201.0	201.0	201.0	207.8	231.5	283.5	358.0	451.8
52.5°	177.3	179.6	183.0	185.2	186.4	187.5	190.9	204.4	244.0	314.0	402.1
55°	169.4	171.7	175.1	177.3	179.6	180.7	183.0	188.6	216.9	276.7	359.2
57.5°	159.3	162.6	167.2	169.4	171.7	172.8	173.9	176.2	195.4	240.6	308.3
60°	152.5	158.1	163.8	167.2	168.3	169.4	170.5	168.3	176.2	204.4	257.5
62.5°	144.6	150.2	154.7	159.3	160.4	161.5	162.6	159.3	158.1	171.7	201.0
65°	137.8	141.2	144.6	148.0	148.0	149.1	148.0	143.4	140.0	140.0	153.6
67.5°	128.8	131.0	134.4	135.5	135.5	135.5	134.4	133.3	127.6	125.4	127.6
70°	115.2	118.6	122.0	124.2	124.2	123.1	122.0	118.6	116.3	114.1	116.3
72.5°	102.8	107.3	108.4	109.6	108.4	108.4	108.4	106.2	107.3	107.3	108.4
75°	90.4	92.6	92.6	94.9	94.9	94.9	94.9	94.9	97.1	96.0	97.1
77.5°	76.8	77.9	80.2	80.2	80.2	81.3	83.6	83.6	85.8	87.0	87.0
80°	66.6	64.4	64.4	63.2	64.4	66.6	68.9	73.4	73.4	74.5	75.7
82.5°	53.1	48.6	46.3	48.6	48.6	49.7	54.2	58.7	58.7	62.1	63.2
85°	40.7	35.0	30.5	32.8	32.8	35.0	39.5	41.8	45.2	46.3	45.2
87.5°	23.7	20.3	13.6	11.3	13.6	16.9	18.1	20.3	16.9	19.2	20.3
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
2.5°	1164.4	1164.4	1158.8	1158.8	1159.9	1162.2	1156.5	1155.4	1156.5	1155.4	1154.3
5°	1194.9	1191.6	1190.4	1188.2	1187.0	1189.3	1183.6	1183.6	1182.5	1180.3	1176.9
7.5°	1228.8	1226.6	1224.3	1222.0	1219.8	1220.9	1215.3	1214.1	1213.0	1211.9	1208.5
10°	1260.4	1257.1	1254.8	1249.2	1244.6	1240.1	1228.8	1225.4	1222.0	1219.8	1218.7
12.5°	1286.4	1283.0	1275.1	1265.0	1258.2	1246.9	1237.9	1230.0	1226.6	1223.2	1224.3
15°	1311.3	1304.5	1294.3	1281.9	1275.1	1263.8	1257.1	1253.7	1251.4	1249.2	1251.4
17.5°	1319.2	1321.4	1315.8	1312.4	1307.9	1303.4	1304.5	1307.9	1314.7	1314.7	1314.7
20°	1304.5	1329.3	1345.2	1357.6	1367.7	1374.5	1375.7	1379.0	1386.9	1390.3	1407.3
22.5°	1269.5	1333.9	1386.9	1429.9	1457.0	1466.0	1476.2	1487.5	1488.6	1492.0	1507.8
25°	1236.7	1330.5	1409.5	1477.3	1540.5	1584.6	1609.4	1632.0	1637.7	1642.2	1642.2
27.5°	1179.1	1283.0	1384.7	1475.0	1562.0	1635.4	1693.0	1751.8	1792.4	1807.1	1828.6
30°	1118.1	1227.7	1332.7	1446.8	1557.5	1660.3	1764.2	1859.0	1925.7	1975.4	2014.9
32.5°	1041.3	1159.9	1279.6	1403.9	1536.0	1664.8	1803.7	1941.5	2068.0	2167.4	2228.4
35°	961.1	1085.4	1209.6	1346.3	1495.4	1651.2	1828.6	2011.5	2180.9	2342.4	2481.4
37.5°	873.1	990.5	1126.0	1281.9	1442.3	1628.6	1835.3	2062.3	2297.3	2528.8	2708.4
40°	772.5	886.6	1017.6	1181.4	1375.7	1585.7	1831.9	2101.9	2396.7	2684.7	2973.8
42.5°	703.6	808.7	934.0	1098.9	1296.6	1537.2	1818.4	2138.0	2487.0	2843.9	3207.6
45°	651.7	754.5	877.6	1035.7	1236.7	1489.7	1813.9	2178.7	2581.9	2990.7	3415.4
47.5°	606.5	712.7	831.3	987.1	1181.4	1446.8	1803.7	2212.6	2660.9	3103.7	3596.1
50°	562.5	670.9	792.9	949.9	1140.7	1400.5	1781.1	2243.1	2735.5	3221.1	3745.2
52.5°	513.9	621.2	752.2	912.6	1114.8	1371.1	1757.4	2267.9	2807.8	3346.5	3899.9
55°	461.9	570.4	699.1	868.5	1079.7	1348.5	1733.7	2283.7	2883.4	3459.5	4038.9
57.5°	405.5	513.9	639.3	812.1	1036.8	1318.0	1707.7	2282.6	2938.8	3565.6	4189.1
60°	336.6	434.8	559.1	733.0	962.3	1275.1	1686.2	2273.6	2978.3	3659.4	4356.2
62.5°	256.4	340.0	454.0	616.7	855.0	1192.7	1629.8	2235.2	2982.8	3727.1	4495.1
65°	183.0	228.1	318.5	481.1	678.8	1008.6	1493.1	2133.5	2908.3	3678.6	4507.6
67.5°	140.0	164.9	208.9	306.1	481.1	768.0	1258.2	1905.4	2676.8	3419.9	4299.8
70°	120.8	133.3	157.0	199.9	301.6	498.1	891.1	1505.5	2204.7	2942.2	3693.2
72.5°	111.8	119.7	134.4	155.9	192.0	293.7	548.9	1012.0	1619.6	2243.1	2900.4
75°	102.8	110.7	122.0	135.5	153.6	196.5	299.3	595.2	999.5	1481.8	1949.4
77.5°	91.5	98.3	112.9	125.4	136.7	153.6	190.9	330.9	550.0	886.6	1166.7
80°	76.8	83.6	94.9	114.1	125.4	136.7	149.1	203.3	303.8	458.6	598.6
82.5°	63.2	66.6	75.7	92.6	102.8	108.4	111.8	132.1	172.8	225.9	329.8
85°	44.0	44.0	50.8	59.9	67.8	63.2	64.4	67.8	89.2	125.4	253.0
87.5°	16.9	12.4	15.8	19.2	19.2	18.1	21.5	20.3	28.2	53.1	72.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	0°
2.5°	1154.3	1154.3	1153.2	1152.0	1150.9	1150.9	1148.6	1152.0	1150.9	1152.0	1153.2	2.5°
5°	1178.0	1175.7	1173.5	1171.2	1171.2	1169.0	1165.6	1164.4	1159.9	1158.8	1155.4	5°
7.5°	1211.9	1211.9	1211.9	1209.6	1205.1	1199.5	1192.7	1188.2	1175.7	1166.7	1156.5	7.5°
10°	1220.9	1223.2	1224.3	1225.4	1220.9	1219.8	1211.9	1202.8	1188.2	1174.6	1161.1	10°
12.5°	1224.3	1228.8	1230.0	1231.1	1227.7	1225.4	1217.5	1211.9	1199.5	1185.9	1179.1	12.5°
15°	1255.9	1263.8	1272.9	1271.7	1281.9	1270.6	1263.8	1265.0	1251.4	1236.7	1232.2	15°
17.5°	1337.3	1340.6	1359.8	1361.0	1376.8	1381.3	1370.0	1357.6	1349.7	1340.6	1321.4	17.5°
20°	1425.3	1450.2	1457.0	1490.9	1506.7	1514.6	1515.7	1515.7	1501.0	1461.5	1445.7	20°
22.5°	1521.3	1558.6	1599.3	1620.7	1653.5	1658.0	1675.0	1664.8	1653.5	1623.0	1586.9	22.5°
25°	1676.1	1697.5	1733.7	1787.9	1803.7	1836.5	1829.7	1844.4	1819.5	1766.4	1745.0	25°
27.5°	1848.9	1886.2	1937.0	1987.8	2010.4	2046.5	2023.9	2046.5	2005.9	1991.2	1939.2	27.5°
30°	2037.5	2088.3	2178.7	2241.9	2288.2	2313.1	2298.4	2286.0	2274.7	2247.6	2244.2	30°
32.5°	2269.0	2330.0	2415.9	2498.3	2579.6	2664.3	2684.7	2702.7	2744.5	2662.1	2581.9	32.5°
35°	2554.8	2601.1	2697.1	2792.0	2903.8	3009.9	3185.0	3229.1	3172.6	3074.3	2945.6	35°
37.5°	2833.8	2938.8	3034.8	3147.7	3231.3	3353.3	3431.2	3518.2	3470.8	3379.3	3231.3	37.5°
40°	3176.0	3318.3	3449.3	3588.2	3683.1	3778.0	3924.8	4019.7	4010.6	3896.5	3696.6	40°
42.5°	3490.0	3715.8	3932.7	4036.6	4163.1	4334.8	4443.2	4594.5	4604.7	4472.6	4218.4	42.5°
45°	3818.6	4081.8	4346.1	4550.5	4657.8	4870.1	5118.6	5283.5	5334.3	5082.5	4822.7	45°
47.5°	4076.1	4486.1	4840.8	5058.7	5258.6	5477.8	5797.4	6035.7	6015.4	5675.4	5332.1	47.5°
50°	4302.0	4823.8	5253.0	5612.2	5851.6	6104.6	6525.9	6810.5	6711.1	6278.5	5849.3	50°
52.5°	4506.4	5118.6	5649.4	6094.4	6373.4	6734.8	7266.8	7515.3	7232.9	6815.0	6284.2	52.5°
55°	4693.9	5385.1	6001.8	6537.2	6967.5	7433.9	7933.1	8103.7	7701.6	7185.5	6697.5	55°
57.5°	4866.7	5632.5	6326.0	6968.6	7545.7	8102.6	8537.4	8548.7	8043.8	7471.2	7005.9	57.5°
60°	5074.5	5859.5	6664.8	7415.9	8119.5	8697.8	8951.9	8871.7	8264.1	7684.7	7218.2	60°
62.5°	5275.6	6063.9	6941.5	7846.2	8694.4	9199.2	9250.1	9080.7	8415.4	7784.1	7377.5	62.5°
65°	5375.0	6219.8	7096.2	8119.5	9143.9	9498.5	9436.4	9171.0	8476.4	7798.7	7418.1	65°
67.5°	5229.3	6074.1	6948.3	8000.9	9141.6	9479.3	9319.0	8998.2	8328.4	7598.8	7229.5	67.5°
70°	4692.8	5511.6	6224.3	7214.8	8497.9	8831.0	8590.5	8273.1	7712.9	6999.1	6830.8	70°
72.5°	3948.5	4556.1	5152.5	5884.4	6764.2	7055.6	6738.2	6896.3	6751.8	6060.5	5906.9	72.5°
75°	2963.6	3531.7	3764.4	3989.2	4596.8	4770.7	4648.8	5190.9	5338.8	5050.8	4658.9	75°
77.5°	1939.2	2535.6	2578.5	2583.0	2831.5	3164.7	3606.3	4169.9	4450.0	4320.1	3844.6	77.5°
80°	1130.6	1786.8	1598.1	1537.2	1757.4	2129.0	2711.8	3417.7	3788.1	3815.2	3361.2	80°
82.5°	568.1	1120.4	970.2	960.0	1084.3	1358.7	1784.5	2178.7	2660.9	2683.5	2743.4	82.5°
85°	441.6	770.3	788.3	855.0	941.9	1056.0	1087.6	1157.7	1426.5	1675.0	1739.3	85°
87.5°	229.3	567.0	668.6	778.2	768.0	629.1	530.8	572.6	666.4	702.5	912.6	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1152.0	1152.0	1152.0	1152.0	1152.0	1152.0	1152.0
1150.9	1153.2	1152.0	1153.2	1154.3	1154.3	1153.2
1149.8	1148.6	1144.1	1141.9	1141.9	1139.6	1138.5
1143.0	1135.1	1123.8	1117.0	1112.5	1109.1	1103.5
1144.1	1130.6	1115.9	1105.7	1095.6	1088.8	1082.0
1158.8	1141.9	1128.3	1112.5	1104.6	1095.6	1087.6
1209.6	1187.0	1171.2	1156.5	1147.5	1140.7	1134.0
1290.9	1263.8	1237.9	1224.3	1208.5	1197.2	1196.1
1400.5	1361.0	1327.1	1296.6	1281.9	1263.8	1260.4
1524.7	1467.1	1431.0	1397.1	1376.8	1355.3	1356.5
1682.9	1625.3	1566.5	1531.5	1502.1	1505.5	1502.1
1872.6	1827.4	1759.7	1716.7	1707.7	1672.7	1646.7
2168.5	2100.7	2018.3	1941.5	1892.9	1835.3	1781.1
2458.8	2333.4	2223.9	2149.3	2087.2	2002.5	1917.8
2745.7	2601.1	2499.4	2436.2	2340.2	2221.6	2089.5
3086.7	2991.9	2919.6	2764.9	2628.2	2446.4	2246.4
3579.2	3459.5	3286.7	3090.1	2892.5	2635.0	2361.6
4069.4	3924.8	3683.1	3393.9	3110.5	2799.9	2452.0
4601.3	4322.3	4007.2	3657.1	3308.1	2923.0	2514.1
5020.3	4672.5	4279.4	3859.3	3465.1	3024.6	2568.3
5448.4	5028.2	4534.7	4061.4	3607.4	3107.1	2622.5
5785.0	5316.2	4795.6	4245.5	3739.6	3199.7	2697.1
6121.5	5603.1	5029.4	4429.6	3903.3	3328.4	2808.9
6401.6	5862.9	5255.3	4630.7	4093.1	3500.1	2991.9
6771.0	6227.7	5520.7	4869.0	4307.7	3733.9	3223.4
7122.2	6655.8	5890.0	5149.1	4569.7	3998.2	3486.6
7353.7	7139.2	6268.4	5430.3	4815.9	4245.5	3718.1
7358.3	7446.4	6667.0	5658.5	5046.3	4514.3	3907.8
7180.9	7489.3	6751.8	5678.8	5155.9	4634.1	4007.2
6567.7	6960.7	6244.6	5277.8	4952.6	4540.3	3897.7
5080.2	5364.8	4994.4	4473.7	4485.0	4244.4	3468.5
3517.1	3785.9	3474.1	3363.5	3610.8	3476.4	2589.8
2664.3	2317.6	2195.6	2254.4	2562.7	2548.0	1628.6
2372.9	1754.0	1454.7	1527.0	1809.4	1652.4	906.9
1946.0	1749.5	1462.6	1322.6	1379.0	1128.3	620.1
1120.4	1279.6	1042.5	982.6	855.0	508.2	251.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)