

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: P141454

Luminaire Tested: **EMM-F04-LED-E1-SLL-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141454
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: EMM-F04-LED-E1-SLL-7030
Description: EPIC MODERN MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.4 lumens
Efficiency: N/A
Efficacy: 77.2 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

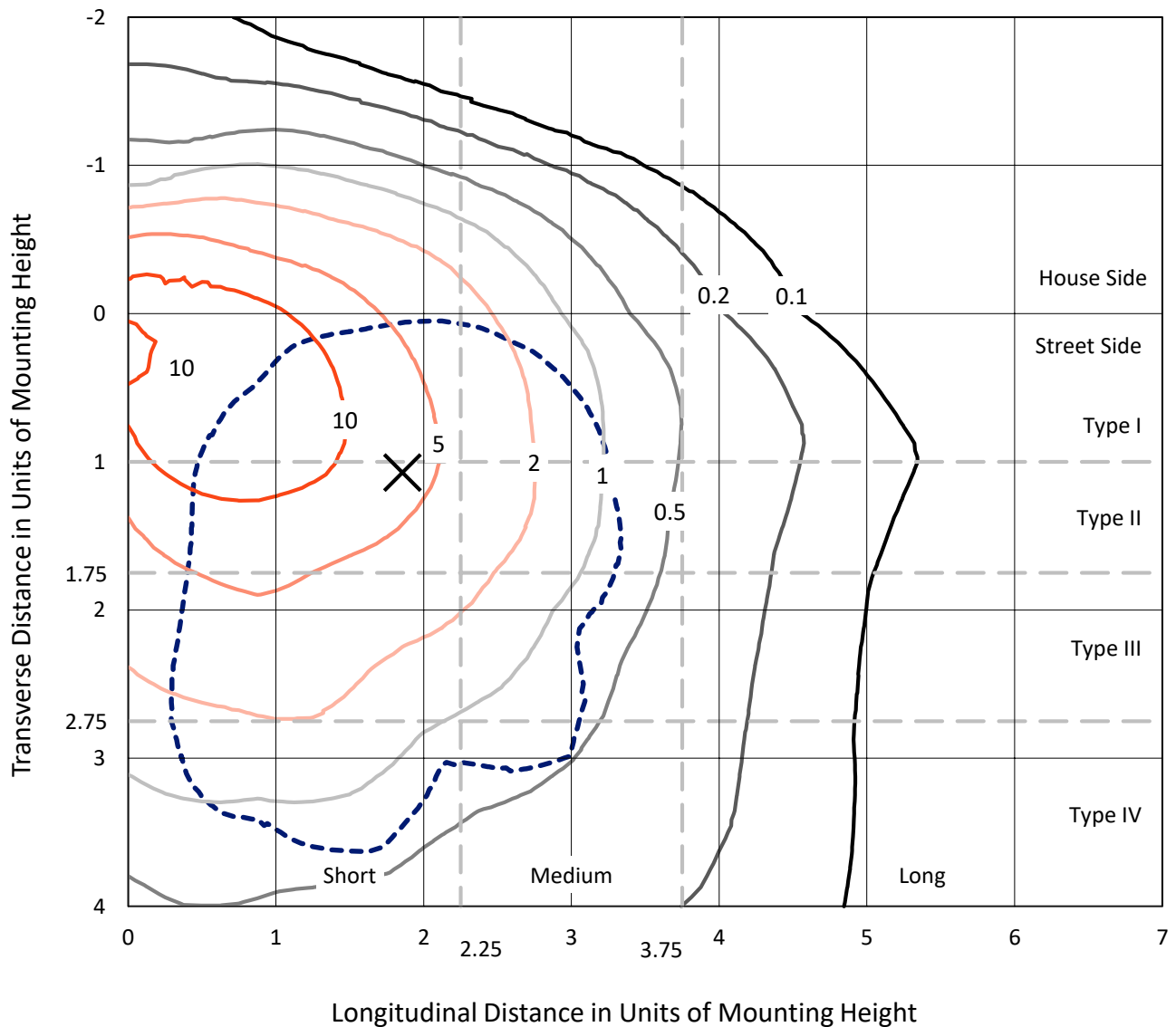
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P141454
 CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

Iso-Footcandle Lines of Horizontal Illumination

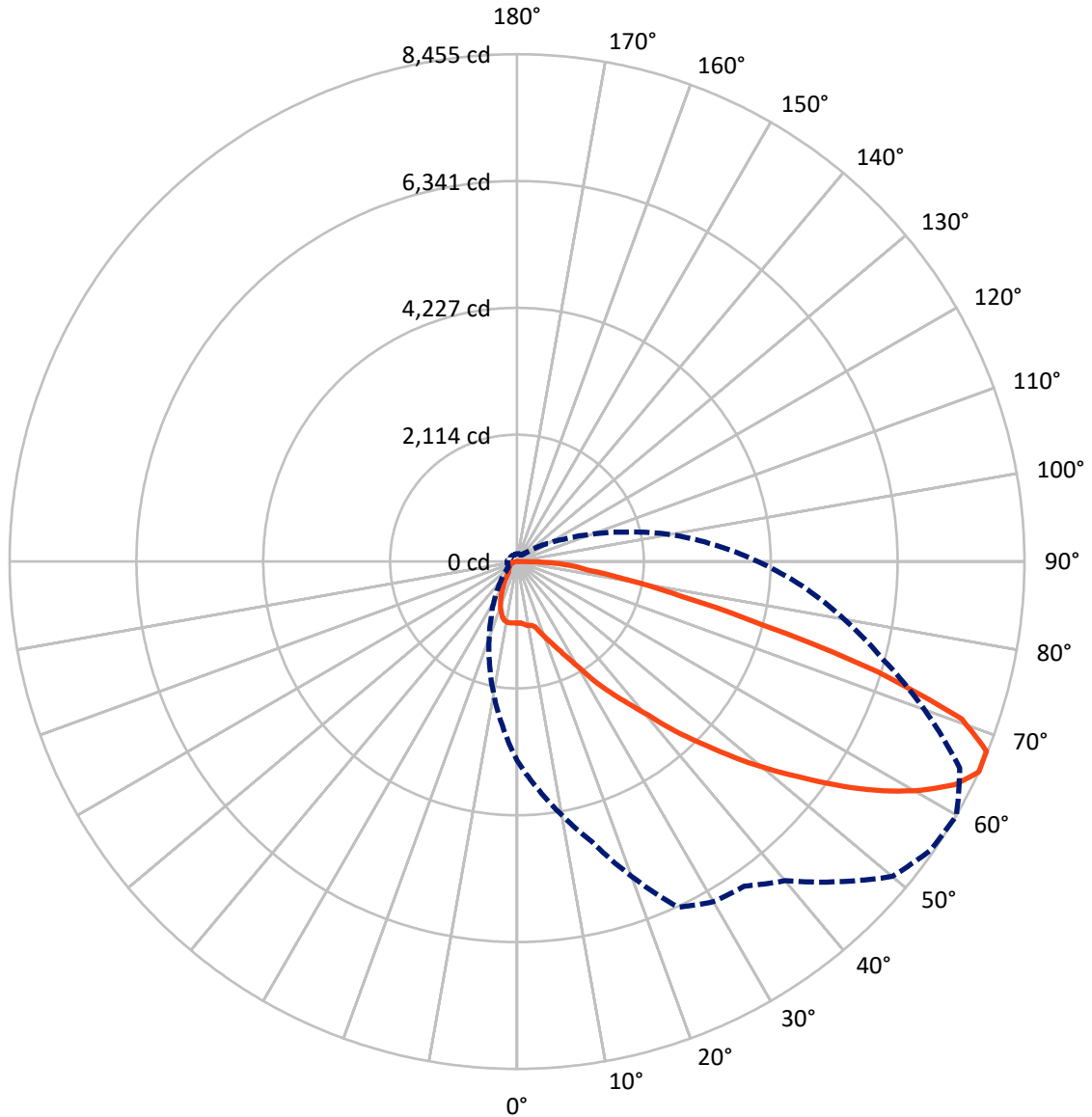
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P141454
CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1463.1	0.0	1463.1
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	6425.3	0.0	6425.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	7888.4	0.0	7888.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.2	1.3
10°-20°	298.0	3.8
20°-30°	495.0	6.3
30°-40°	723.7	9.2
40°-50°	1100.8	14.0
50°-60°	1582.3	20.1
60°-70°	1945.5	24.7
70°-80°	1301.5	16.5
80°-90°	342.4	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°	7888.4	100.0
0°-180°	7888.4	100.0



REPORT NUMBER: P141454

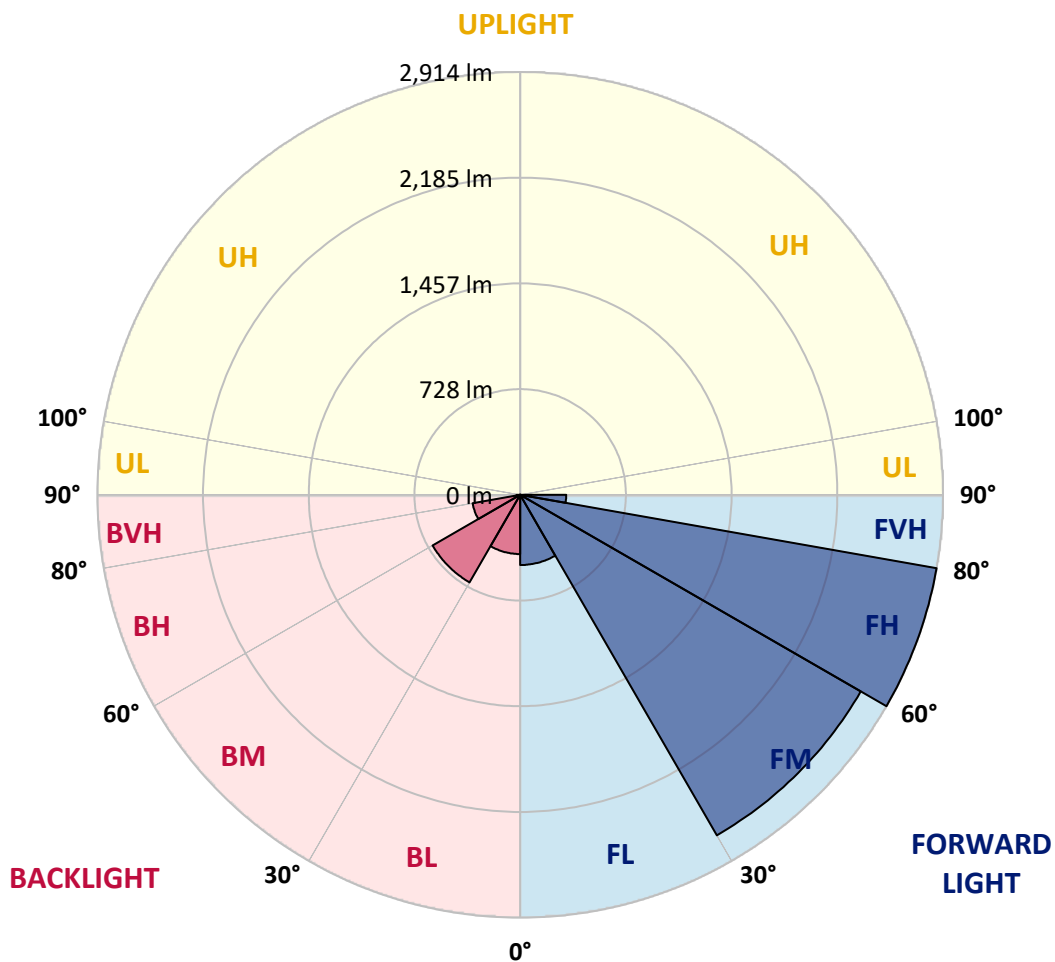
CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	483.9	6.1			
FM	(30°-60°)	2709.9	34.4			
FH	(60°-80°)	2913.9	36.9			G2/5000
FVH	(80°-90°)	317.5	4.0			G3/500
BL	(0°-30°)	408.3	5.2	B1/500		
BM	(30°-60°)	696.9	8.8	B1/1000		
BH	(60°-80°)	333.0	4.2	B1/500		G1/500
BVH	(80°-90°)	24.9	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





REPORT NUMBER: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1026.4	1027.4	1027.4	1026.4	1025.4	1026.4	1024.4	1026.4	1025.4	1024.4	1025.4
5°	1013.4	1014.4	1016.4	1016.4	1018.4	1022.4	1023.4	1028.4	1031.5	1032.5	1036.5
7.5°	982.2	987.2	990.2	994.3	1000.3	1010.4	1017.4	1029.5	1038.5	1046.5	1057.6
10°	963.1	969.1	975.2	984.2	993.3	1006.3	1018.4	1033.5	1045.5	1057.6	1070.7
12.5°	968.1	975.2	983.2	990.2	1004.3	1016.4	1031.5	1049.6	1055.6	1067.7	1078.7
15°	1009.3	1015.4	1021.4	1029.5	1042.5	1056.6	1076.7	1096.8	1100.8	1113.9	1126.0
17.5°	1064.6	1065.6	1075.7	1089.8	1101.8	1125.0	1149.1	1176.2	1193.3	1201.4	1208.4
20°	1121.9	1125.0	1141.0	1154.1	1181.3	1211.4	1246.6	1286.8	1300.9	1336.1	1349.1
22.5°	1207.4	1206.4	1225.5	1243.6	1273.7	1305.9	1357.2	1412.5	1444.7	1471.8	1481.8
25°	1337.1	1340.1	1337.1	1363.2	1394.4	1446.7	1497.9	1553.2	1572.3	1619.6	1641.7
27.5°	1465.8	1488.9	1520.1	1528.1	1566.3	1626.6	1666.8	1726.1	1772.4	1785.5	1821.6
30°	1585.4	1633.7	1684.9	1728.2	1796.5	1869.9	1930.2	1997.6	2000.6	2024.7	2034.8
32.5°	1707.0	1782.4	1857.8	1913.1	1979.5	2077.0	2188.6	2298.2	2369.6	2442.9	2405.7
35°	1859.9	1977.5	2083.0	2168.5	2224.8	2315.3	2443.9	2621.9	2736.5	2824.0	2874.2
37.5°	1999.6	2177.5	2339.4	2461.0	2598.8	2663.1	2747.6	2876.2	3007.9	3089.4	3131.6
40°	2102.1	2345.4	2574.6	2750.6	2925.5	3079.3	3185.9	3290.4	3468.4	3569.9	3578.0
42.5°	2182.6	2492.2	2768.7	3021.0	3278.4	3493.5	3622.2	3754.9	3981.1	4098.7	4089.7
45°	2237.9	2601.8	2944.6	3255.2	3566.9	3847.4	4095.7	4292.7	4524.0	4748.1	4702.9
47.5°	2286.1	2692.3	3084.3	3435.2	3809.2	4159.0	4468.7	4746.1	5051.8	5354.4	5372.5
50°	2334.4	2765.6	3211.0	3615.1	4036.4	4475.7	4849.7	5206.6	5588.6	5973.6	6062.1
52.5°	2400.7	2848.1	3328.6	3779.0	4268.6	4732.1	5149.3	5593.6	6066.1	6438.1	6689.4
55°	2500.2	2962.7	3474.4	3942.9	4476.7	4987.4	5448.9	5961.6	6395.9	6855.3	7213.2
57.5°	2663.1	3115.5	3643.3	4121.8	4677.8	5218.6	5698.2	6236.0	6650.2	7159.9	7609.3
60°	2869.2	3323.6	3834.3	4334.0	4914.0	5543.4	6026.9	6425.0	6840.2	7356.0	7896.8
62.5°	3103.4	3558.8	4067.5	4583.3	5242.8	5924.4	6339.6	6566.8	6928.7	7490.7	8082.8
65°	3309.5	3779.0	4286.7	4833.6	5579.6	6354.7	6545.7	6603.0	6941.8	7545.0	8163.2
67.5°	3478.4	4018.3	4491.8	5036.7	5934.4	6628.1	6549.7	6435.1	6763.8	7413.3	8009.4
70°	3566.9	4124.8	4589.3	5054.8	6009.8	6666.3	6391.9	6080.2	6230.0	6865.4	7364.0
72.5°	3469.4	4041.4	4408.3	4697.9	5558.4	6195.8	5846.0	5257.8	5394.6	6009.8	6138.5
75°	3087.4	3778.0	3992.1	3982.1	4445.5	4775.3	4522.0	4147.0	4495.8	4752.2	4620.5
77.5°	2305.2	3094.4	3214.0	2993.9	3092.4	3369.8	3130.6	3422.1	3845.4	3961.0	3711.7
80°	1449.7	2268.0	2281.1	2006.6	1954.4	2062.9	2371.6	2991.8	3396.0	3371.9	3042.1
82.5°	807.3	1470.8	1610.5	1359.2	1294.9	1561.3	2112.2	2441.9	2388.7	2368.5	1939.3
85°	551.9	1004.3	1227.5	1177.2	1301.9	1557.2	1732.2	1548.2	1490.9	1269.7	1030.5
87.5°	224.2	452.4	761.0	874.6	927.9	1139.0	997.3	812.3	625.3	593.1	509.7
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: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1022.4	1024.4	1024.4	1025.4	1026.4	1027.4	1027.4	1027.4	1028.4	1029.5	1028.4
5°	1037.5	1040.5	1042.5	1042.5	1044.5	1046.5	1048.6	1047.5	1050.6	1052.6	1053.6
7.5°	1061.6	1067.7	1072.7	1076.7	1078.7	1078.7	1078.7	1075.7	1078.7	1079.7	1080.7
10°	1078.7	1085.8	1086.8	1090.8	1089.8	1088.8	1086.8	1084.7	1085.8	1087.8	1090.8
12.5°	1083.7	1090.8	1092.8	1095.8	1094.8	1093.8	1089.8	1089.8	1088.8	1091.8	1094.8
15°	1125.0	1131.0	1141.0	1132.0	1133.0	1125.0	1117.9	1113.9	1111.9	1113.9	1115.9
17.5°	1219.5	1229.5	1225.5	1211.4	1210.4	1193.3	1190.3	1170.2	1170.2	1170.2	1164.2
20°	1349.1	1348.1	1341.1	1327.0	1296.9	1290.8	1268.7	1252.6	1237.6	1234.5	1227.5
22.5°	1490.9	1475.8	1471.8	1442.6	1423.5	1387.3	1354.2	1342.1	1328.0	1325.0	1324.0
25°	1628.6	1634.7	1605.5	1591.4	1543.2	1511.0	1491.9	1461.7	1461.7	1457.7	1452.7
27.5°	1801.5	1821.6	1789.5	1769.4	1724.1	1678.9	1645.7	1627.6	1608.5	1595.5	1559.3
30°	2045.8	2058.9	2036.8	1995.6	1939.3	1858.8	1813.6	1793.5	1758.3	1714.1	1654.8
32.5°	2389.7	2371.6	2296.2	2223.8	2150.4	2074.0	2019.7	1983.5	1929.2	1840.7	1728.2
35°	2835.0	2679.2	2584.7	2485.2	2400.7	2315.3	2274.0	2208.7	2085.0	1941.3	1790.5
37.5°	3054.2	2984.8	2876.2	2801.8	2701.3	2615.9	2522.4	2410.8	2250.9	2044.8	1835.7
40°	3493.5	3362.8	3278.4	3193.9	3070.3	2953.6	2827.0	2647.0	2389.7	2133.3	1870.9
42.5°	3954.9	3858.4	3705.6	3593.0	3500.5	3307.5	3106.5	2855.1	2531.4	2213.7	1903.1
45°	4556.1	4335.0	4146.0	4050.5	3868.5	3633.2	3399.0	3040.1	2662.1	2298.2	1939.3
47.5°	5160.3	4875.8	4680.8	4502.8	4308.8	3993.1	3628.2	3201.0	2762.6	2368.5	1969.4
50°	5808.8	5433.8	5208.6	4995.5	4675.8	4293.7	3829.3	3333.7	2867.2	2434.9	1996.6
52.5°	6468.3	5994.8	5673.0	5424.7	5028.6	4556.1	4011.2	3471.4	2978.8	2499.2	2018.7
55°	7061.4	6617.0	6201.8	5818.8	5342.3	4793.4	4178.1	3595.0	3079.3	2566.6	2032.8
57.5°	7599.2	7212.2	6716.6	6202.9	5630.8	5013.6	4331.9	3728.7	3173.8	2615.9	2031.8
60°	7968.2	7742.0	7227.3	6601.0	5932.4	5215.6	4516.9	3877.5	3257.3	2651.0	2023.7
62.5°	8233.6	8188.4	7739.0	6984.0	6178.7	5397.6	4695.9	4001.2	3317.6	2655.1	1989.5
65°	8399.5	8454.8	8139.1	7227.3	6316.5	5536.3	4784.3	4012.3	3274.3	2588.7	1899.1
67.5°	8294.9	8437.7	8137.1	7121.7	6184.8	5406.6	4654.7	3827.3	3044.1	2382.6	1696.0
70°	7646.5	7860.6	7564.1	6422.0	5540.3	4906.0	4177.1	3287.4	2618.9	1962.4	1340.1
72.5°	5997.8	6280.3	6020.9	5237.7	4586.3	4055.5	3514.6	2581.7	1996.6	1441.6	900.8
75°	4137.9	4246.5	4091.7	3550.8	3350.7	3143.7	2638.0	1735.2	1319.0	889.7	529.8
77.5°	3210.0	2816.9	2520.3	2299.2	2295.2	2257.0	1726.1	1038.5	789.2	489.6	294.6
80°	2413.8	1895.0	1564.3	1368.2	1422.5	1590.4	1006.3	532.8	408.2	270.4	181.0
82.5°	1588.4	1209.4	965.1	854.5	863.6	997.3	505.7	293.6	201.1	153.8	117.6
85°	968.1	940.0	838.4	761.0	701.7	685.6	393.1	225.2	111.6	79.4	60.3
87.5°	472.5	560.0	683.6	692.7	595.2	504.7	204.1	64.3	47.3	25.1	18.1
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: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1029.5	1034.5	1032.5	1031.5	1031.5	1036.5	1036.5	1034.5	1034.5	1035.5	1035.5
5°	1053.6	1058.6	1056.6	1057.6	1059.6	1060.6	1063.6	1060.6	1058.6	1060.6	1059.6
7.5°	1081.7	1086.8	1085.8	1087.8	1089.8	1091.8	1093.8	1092.8	1090.8	1090.8	1089.8
10°	1093.8	1103.8	1107.9	1111.9	1116.9	1118.9	1121.9	1121.9	1117.9	1117.9	1112.9
12.5°	1101.8	1109.9	1119.9	1126.0	1135.0	1142.0	1145.1	1146.1	1143.1	1139.0	1134.0
15°	1118.9	1125.0	1135.0	1141.0	1152.1	1161.1	1167.2	1166.2	1162.2	1151.1	1136.0
17.5°	1161.1	1160.1	1164.2	1168.2	1171.2	1176.2	1174.2	1165.2	1146.1	1126.0	1104.9
20°	1224.5	1223.5	1217.4	1208.4	1197.3	1183.3	1161.1	1134.0	1101.8	1065.6	1033.5
22.5°	1314.0	1304.9	1296.9	1272.7	1234.5	1187.3	1130.0	1076.7	1038.5	1003.3	968.1
25°	1432.6	1410.5	1371.3	1315.0	1254.6	1184.3	1100.8	1029.5	981.2	940.0	904.8
27.5°	1507.0	1455.7	1390.4	1313.0	1232.5	1142.0	1049.6	979.2	924.9	879.7	839.4
30°	1570.3	1477.8	1386.3	1287.8	1186.3	1092.8	995.3	919.9	856.5	806.3	758.0
32.5°	1605.5	1481.8	1367.2	1249.6	1139.0	1032.5	926.9	845.5	785.2	722.8	656.5
35°	1627.6	1469.8	1331.0	1198.3	1076.7	966.1	855.5	766.1	686.6	610.2	543.9
37.5°	1633.7	1449.7	1283.8	1141.0	1002.3	881.7	777.1	672.6	593.1	510.7	434.3
40°	1630.6	1411.5	1224.5	1051.6	905.8	789.2	687.6	592.1	504.7	431.3	357.9
42.5°	1618.6	1368.2	1154.1	978.2	831.4	719.8	626.3	529.8	451.4	373.0	310.6
45°	1614.6	1326.0	1100.8	921.9	781.1	671.6	580.1	486.6	404.1	329.7	267.4
47.5°	1605.5	1287.8	1051.6	878.7	739.9	634.4	539.9	448.4	362.9	295.6	235.2
50°	1585.4	1246.6	1015.4	845.5	705.7	597.2	500.7	402.1	318.7	252.3	206.1
52.5°	1564.3	1220.5	992.3	812.3	669.5	552.9	457.4	357.9	279.5	217.2	182.0
55°	1543.2	1200.4	961.1	773.1	622.3	507.7	411.2	319.7	246.3	193.0	167.9
57.5°	1520.1	1173.2	922.9	722.8	569.0	457.4	360.9	274.5	214.1	173.9	156.8
60°	1500.9	1135.0	856.5	652.5	497.6	387.0	299.6	229.2	182.0	156.8	149.8
62.5°	1450.7	1061.6	761.0	548.9	404.1	302.6	228.2	178.9	152.8	140.7	141.8
65°	1329.0	897.8	604.2	428.3	283.5	203.1	162.9	136.7	124.7	124.7	127.7
67.5°	1119.9	683.6	428.3	272.4	186.0	146.8	124.7	113.6	111.6	113.6	118.6
70°	793.2	443.3	268.4	177.9	139.7	118.6	107.6	103.5	101.5	103.5	105.6
72.5°	488.6	261.4	170.9	138.7	119.6	106.6	99.5	96.5	95.5	95.5	94.5
75°	266.4	174.9	136.7	120.6	108.6	98.5	91.5	86.5	85.5	86.5	84.4
77.5°	169.9	136.7	121.6	111.6	100.5	87.5	81.4	77.4	77.4	76.4	74.4
80°	132.7	121.6	111.6	101.5	84.4	74.4	68.4	67.4	66.4	65.3	65.3
82.5°	99.5	96.5	91.5	82.4	67.4	59.3	56.3	56.3	55.3	52.3	52.3
85°	57.3	56.3	60.3	53.3	45.2	39.2	39.2	40.2	41.2	40.2	37.2
87.5°	19.1	16.1	17.1	17.1	14.1	11.1	15.1	18.1	17.1	15.1	18.1
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: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1032.5	1034.5	1038.5	1034.5	1032.5	1032.5	1030.5	1031.5	1028.4	1025.4	1026.4
5°	1057.6	1055.6	1057.6	1054.6	1048.6	1047.5	1043.5	1043.5	1039.5	1035.5	1033.5
7.5°	1085.8	1082.7	1083.7	1077.7	1070.7	1065.6	1060.6	1058.6	1053.6	1047.5	1043.5
10°	1107.9	1104.9	1102.8	1095.8	1086.8	1081.7	1074.7	1070.7	1065.6	1057.6	1053.6
12.5°	1121.9	1114.9	1110.9	1098.8	1090.8	1085.8	1077.7	1075.7	1069.7	1062.6	1059.6
15°	1118.9	1102.8	1090.8	1076.7	1065.6	1058.6	1051.6	1049.6	1046.5	1043.5	1037.5
17.5°	1069.7	1049.6	1036.5	1007.3	991.3	984.2	983.2	982.2	980.2	980.2	973.2
20°	1001.3	978.2	958.1	929.9	908.8	901.8	882.7	877.6	871.6	877.6	871.6
22.5°	940.0	910.8	887.7	864.6	839.4	819.3	794.2	782.1	765.1	761.0	763.0
25°	874.6	838.4	809.3	782.1	755.0	726.8	703.7	686.6	675.6	660.5	646.4
27.5°	795.2	765.1	725.8	703.7	671.6	640.4	616.3	598.2	578.1	566.0	545.9
30°	714.8	668.5	629.3	598.2	563.0	547.9	524.8	505.7	487.6	474.5	457.4
32.5°	610.2	562.0	520.8	484.6	460.4	439.3	425.3	409.2	400.1	389.1	378.0
35°	499.6	439.3	390.1	374.0	346.8	347.8	340.8	332.8	325.7	315.7	314.7
37.5°	377.0	329.7	297.6	277.5	273.4	267.4	268.4	267.4	265.4	262.4	262.4
40°	298.6	256.4	235.2	231.2	231.2	230.2	229.2	229.2	229.2	227.2	226.2
42.5°	255.4	225.2	218.2	216.1	214.1	213.1	211.1	208.1	208.1	206.1	203.1
45°	225.2	208.1	206.1	204.1	204.1	201.1	198.0	196.0	195.0	194.0	192.0
47.5°	206.1	197.0	195.0	193.0	192.0	190.0	187.0	184.0	183.0	182.0	182.0
50°	185.0	178.9	178.9	178.9	175.9	173.9	170.9	168.9	168.9	167.9	166.9
52.5°	169.9	166.9	165.9	164.9	162.9	159.8	157.8	156.8	155.8	156.8	155.8
55°	162.9	160.9	159.8	157.8	155.8	152.8	150.8	147.8	146.8	148.8	148.8
57.5°	154.8	153.8	152.8	150.8	148.8	144.8	141.8	139.7	139.7	142.8	141.8
60°	151.8	150.8	149.8	148.8	145.8	140.7	135.7	133.7	133.7	136.7	136.7
62.5°	144.8	143.8	142.8	141.8	137.7	133.7	128.7	126.7	127.7	129.7	132.7
65°	131.7	132.7	131.7	131.7	128.7	125.7	122.6	120.6	119.6	120.6	123.7
67.5°	119.6	120.6	120.6	120.6	119.6	116.6	114.6	111.6	109.6	110.6	111.6
70°	108.6	109.6	110.6	110.6	108.6	105.6	102.5	99.5	98.5	99.5	99.5
72.5°	96.5	96.5	96.5	97.5	96.5	95.5	91.5	87.5	87.5	86.5	87.5
75°	84.4	84.4	84.4	84.4	82.4	82.4	80.4	76.4	75.4	76.4	77.4
77.5°	74.4	72.4	71.4	71.4	71.4	69.4	68.4	68.4	67.4	67.4	67.4
80°	61.3	59.3	57.3	56.3	57.3	57.3	59.3	59.3	58.3	58.3	58.3
82.5°	48.3	44.2	43.2	43.2	41.2	43.2	47.3	52.3	50.3	51.3	51.3
85°	35.2	31.2	29.2	29.2	27.1	31.2	36.2	40.2	38.2	40.2	39.2
87.5°	16.1	15.1	12.1	10.1	12.1	18.1	21.1	22.1	19.1	23.1	23.1
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: P141454

CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
2.5°	1030.5	1026.4	1025.4	1026.4	1024.4	1027.4	1027.4	1026.4	1026.4	1025.4	1027.4
5°	1036.5	1031.5	1028.4	1028.4	1026.4	1029.5	1027.4	1026.4	1025.4	1025.4	1025.4
7.5°	1045.5	1038.5	1033.5	1030.5	1026.4	1026.4	1023.4	1020.4	1018.4	1017.4	1017.4
10°	1053.6	1043.5	1035.5	1028.4	1022.4	1017.4	1012.4	1005.3	1003.3	1001.3	1002.3
12.5°	1052.6	1041.5	1029.5	1018.4	1004.3	998.3	985.2	977.2	977.2	972.1	975.2
15°	1030.5	1011.4	994.3	976.2	959.1	947.0	930.9	921.9	916.9	915.9	922.9
17.5°	964.1	946.0	929.9	909.8	887.7	879.7	868.6	864.6	861.6	866.6	871.6
20°	874.6	851.5	836.4	824.4	824.4	822.4	817.3	810.3	804.3	803.3	809.3
22.5°	748.0	738.9	741.9	733.9	733.9	729.9	737.9	724.8	731.9	725.8	728.9
25°	642.4	638.4	636.4	635.4	635.4	642.4	641.4	643.4	636.4	640.4	639.4
27.5°	546.9	541.9	534.8	538.9	542.9	547.9	549.9	550.9	556.9	545.9	549.9
30°	455.4	447.4	452.4	448.4	450.4	449.4	449.4	449.4	453.4	461.4	455.4
32.5°	373.0	369.0	374.0	366.9	367.9	367.9	365.9	362.9	364.9	355.9	362.9
35°	308.6	303.6	307.6	304.6	301.6	293.6	290.5	285.5	286.5	284.5	283.5
37.5°	258.4	257.4	254.3	254.3	252.3	251.3	246.3	247.3	248.3	250.3	250.3
40°	223.2	222.2	221.2	223.2	224.2	225.2	227.2	229.2	232.2	235.2	238.3
42.5°	203.1	203.1	203.1	207.1	210.1	215.1	218.2	222.2	226.2	231.2	235.2
45°	191.0	190.0	192.0	195.0	200.1	205.1	210.1	216.1	222.2	227.2	230.2
47.5°	181.0	180.0	182.0	185.0	190.0	198.0	205.1	212.1	219.2	224.2	226.2
50°	167.9	167.9	168.9	171.9	176.9	184.0	191.0	199.1	206.1	210.1	212.1
52.5°	157.8	158.8	158.8	161.9	166.9	172.9	180.0	187.0	192.0	195.0	199.1
55°	147.8	149.8	149.8	152.8	157.8	164.9	173.9	180.0	186.0	190.0	193.0
57.5°	140.7	141.8	141.8	145.8	151.8	157.8	166.9	174.9	182.0	187.0	191.0
60°	134.7	135.7	134.7	139.7	144.8	151.8	159.8	168.9	178.9	186.0	189.0
62.5°	129.7	129.7	128.7	132.7	135.7	139.7	146.8	156.8	165.9	171.9	174.9
65°	123.7	123.7	121.6	125.7	125.7	131.7	136.7	145.8	152.8	159.8	161.9
67.5°	111.6	113.6	112.6	115.6	119.6	123.7	129.7	136.7	143.8	148.8	151.8
70°	99.5	100.5	103.5	105.6	109.6	111.6	116.6	121.6	128.7	131.7	134.7
72.5°	88.5	89.5	91.5	93.5	97.5	99.5	103.5	107.6	113.6	116.6	119.6
75°	77.4	78.4	79.4	81.4	83.4	85.5	87.5	91.5	95.5	99.5	102.5
77.5°	66.4	67.4	70.4	69.4	71.4	72.4	75.4	77.4	79.4	83.4	87.5
80°	58.3	57.3	59.3	60.3	62.3	62.3	64.3	64.3	67.4	67.4	68.4
82.5°	49.3	48.3	50.3	53.3	54.3	54.3	56.3	52.3	51.3	52.3	55.3
85°	37.2	38.2	39.2	43.2	44.2	44.2	46.2	43.2	39.2	39.2	41.2
87.5°	21.1	16.1	23.1	27.1	27.1	28.1	30.2	29.2	28.1	22.1	23.1
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: P141454
 CATALOG NUMBER: EMM-F04-LED-E1-SLL-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	0°
2.5°	1026.4	1027.4	1028.4	1029.5	1030.5	1029.5	1031.5	1029.5	1030.5	1028.4	1027.4	2.5°
5°	1025.4	1026.4	1026.4	1028.4	1029.5	1026.4	1028.4	1025.4	1025.4	1023.4	1020.4	5°
7.5°	1018.4	1020.4	1020.4	1022.4	1022.4	1019.4	1019.4	1013.4	1011.4	1004.3	999.3	7.5°
10°	1004.3	1007.3	1009.3	1013.4	1015.4	1010.4	1007.3	1000.3	992.3	984.2	976.2	10°
12.5°	980.2	981.2	988.2	994.3	997.3	1000.3	998.3	997.3	989.2	984.2	981.2	12.5°
15°	924.9	932.9	940.0	954.1	964.1	975.2	983.2	992.3	996.3	1001.3	1003.3	15°
17.5°	876.6	885.7	890.7	902.8	912.8	929.9	951.0	974.2	990.2	1010.4	1029.5	17.5°
20°	809.3	824.4	828.4	847.5	860.6	882.7	905.8	935.0	967.1	998.3	1032.5	20°
22.5°	733.9	740.9	749.0	769.1	785.2	813.3	848.5	888.7	925.9	969.1	1018.4	22.5°
25°	642.4	651.5	659.5	681.6	704.7	730.9	773.1	822.4	869.6	926.9	991.3	25°
27.5°	551.9	559.0	573.0	589.1	615.3	643.4	695.7	750.0	804.3	873.6	950.0	27.5°
30°	457.4	464.5	471.5	490.6	517.7	550.9	598.2	662.5	726.8	801.2	891.7	30°
32.5°	366.9	369.0	383.0	397.1	420.2	448.4	499.6	562.0	631.3	721.8	811.3	32.5°
35°	286.5	298.6	304.6	323.7	337.8	366.9	410.2	467.5	539.9	631.3	727.9	35°
37.5°	254.3	258.4	266.4	280.5	299.6	325.7	355.9	400.1	462.4	539.9	630.3	37.5°
40°	242.3	246.3	252.3	263.4	281.5	305.6	330.8	365.9	414.2	475.5	556.9	40°
42.5°	238.3	239.3	241.3	251.3	269.4	296.6	326.7	359.9	397.1	446.4	510.7	42.5°
45°	233.2	233.2	234.2	241.3	257.4	285.5	323.7	365.9	408.2	452.4	506.7	45°
47.5°	229.2	230.2	229.2	232.2	244.3	271.4	313.7	364.9	421.2	478.5	537.8	47.5°
50°	213.1	213.1	214.1	215.1	224.2	250.3	291.5	347.8	417.2	494.6	576.1	50°
52.5°	200.1	202.1	202.1	204.1	210.1	231.2	272.4	331.8	407.2	497.6	607.2	52.5°
55°	196.0	198.0	199.1	199.1	203.1	221.2	260.4	316.7	396.1	494.6	619.3	55°
57.5°	193.0	195.0	196.0	195.0	198.0	213.1	249.3	304.6	384.0	487.6	624.3	57.5°
60°	190.0	191.0	189.0	187.0	188.0	201.1	233.2	287.5	370.0	477.5	622.3	60°
62.5°	175.9	176.9	174.9	172.9	170.9	181.0	210.1	263.4	340.8	454.4	606.2	62.5°
65°	163.9	163.9	163.9	161.9	159.8	165.9	187.0	232.2	299.6	413.2	569.0	65°
67.5°	153.8	152.8	152.8	151.8	149.8	151.8	164.9	196.0	248.3	347.8	501.7	67.5°
70°	137.7	136.7	137.7	136.7	134.7	134.7	140.7	157.8	193.0	255.4	390.1	70°
72.5°	121.6	122.6	124.7	124.7	124.7	125.7	125.7	130.7	149.8	183.0	265.4	72.5°
75°	104.6	105.6	108.6	112.6	110.6	111.6	111.6	114.6	124.7	144.8	186.0	75°
77.5°	88.5	91.5	95.5	96.5	93.5	93.5	95.5	100.5	109.6	121.6	141.8	77.5°
80°	72.4	76.4	77.4	79.4	80.4	80.4	82.4	86.5	95.5	110.6	126.7	80°
82.5°	57.3	60.3	63.3	66.4	68.4	71.4	72.4	74.4	83.4	98.5	116.6	82.5°
85°	43.2	46.2	50.3	53.3	55.3	58.3	57.3	58.3	63.3	75.4	88.5	85°
87.5°	26.1	26.1	29.2	30.2	31.2	31.2	33.2	29.2	31.2	40.2	48.3	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: P141454

NUMBER: EMM-F04-LED-E1-SLL-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1025.4	1025.4	1025.4	1025.4	1025.4	1025.4	1025.4
1028.4	1027.4	1026.4	1027.4	1029.5	1029.5	1026.4
1021.4	1018.4	1016.4	1016.4	1016.4	1015.4	1013.4
997.3	992.3	989.2	987.2	986.2	986.2	982.2
971.1	968.1	962.1	960.1	961.1	964.1	963.1
977.2	968.1	965.1	965.1	964.1	969.1	968.1
1010.4	1010.4	1006.3	1005.3	1003.3	1009.3	1009.3
1045.5	1054.6	1058.6	1054.6	1055.6	1056.6	1064.6
1064.6	1090.8	1104.9	1115.9	1116.9	1122.9	1121.9
1067.7	1114.9	1152.1	1176.2	1198.3	1209.4	1207.4
1052.6	1117.9	1183.3	1244.6	1290.8	1316.0	1337.1
1032.5	1109.9	1194.3	1280.8	1356.2	1423.5	1465.8
985.2	1083.7	1192.3	1302.9	1410.5	1507.0	1585.4
918.9	1032.5	1162.2	1307.9	1458.7	1592.4	1707.0
830.4	952.0	1109.9	1288.8	1487.9	1686.9	1859.9
734.9	868.6	1041.5	1256.7	1503.0	1762.3	1999.6
651.5	783.1	972.1	1215.4	1500.9	1811.6	2102.1
597.2	720.8	911.8	1176.2	1490.9	1839.7	2182.6
579.1	690.7	871.6	1145.1	1484.9	1859.9	2237.9
603.2	699.7	862.6	1131.0	1482.9	1883.0	2286.1
659.5	750.0	896.7	1154.1	1500.9	1906.1	2334.4
712.8	820.3	971.1	1220.5	1568.3	1973.5	2400.7
756.0	896.7	1051.6	1307.9	1664.8	2078.0	2500.2
780.1	956.1	1156.1	1429.6	1796.5	2231.8	2663.1
790.2	997.3	1245.6	1557.2	1962.4	2407.8	2869.2
786.2	1016.4	1309.9	1673.9	2112.2	2600.8	3103.4
761.0	1016.4	1350.2	1767.4	2237.9	2754.6	3309.5
700.7	981.2	1354.2	1821.6	2334.4	2884.3	3478.4
590.1	879.7	1286.8	1815.6	2364.5	2925.5	3566.9
413.2	656.5	1073.7	1640.7	2235.8	2828.0	3469.4
256.4	409.2	769.1	1268.7	1860.9	2399.7	3087.4
180.0	248.3	440.3	803.3	1280.8	1788.5	2305.2
149.8	183.0	251.3	442.3	770.1	1101.8	1449.7
129.7	147.8	174.9	252.3	392.1	587.1	807.3
96.5	107.6	120.6	165.9	247.3	362.9	551.9
39.2	44.2	49.3	66.4	151.8	209.1	224.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)