

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: LUMARK

Report Number: P145739

Luminaire Tested: **LDRL-SLL-E03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145739
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SLL-E03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7380.2 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

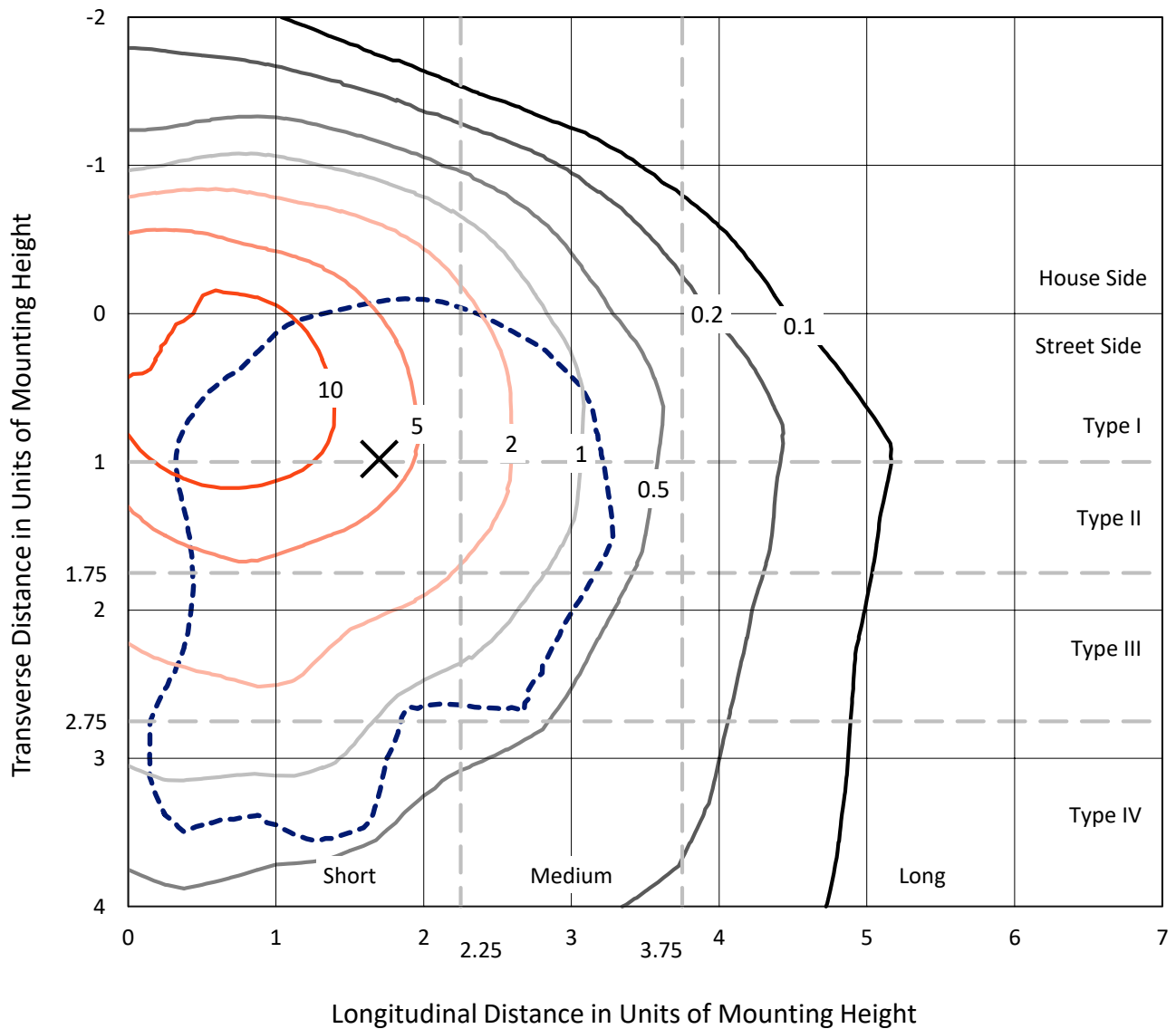
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

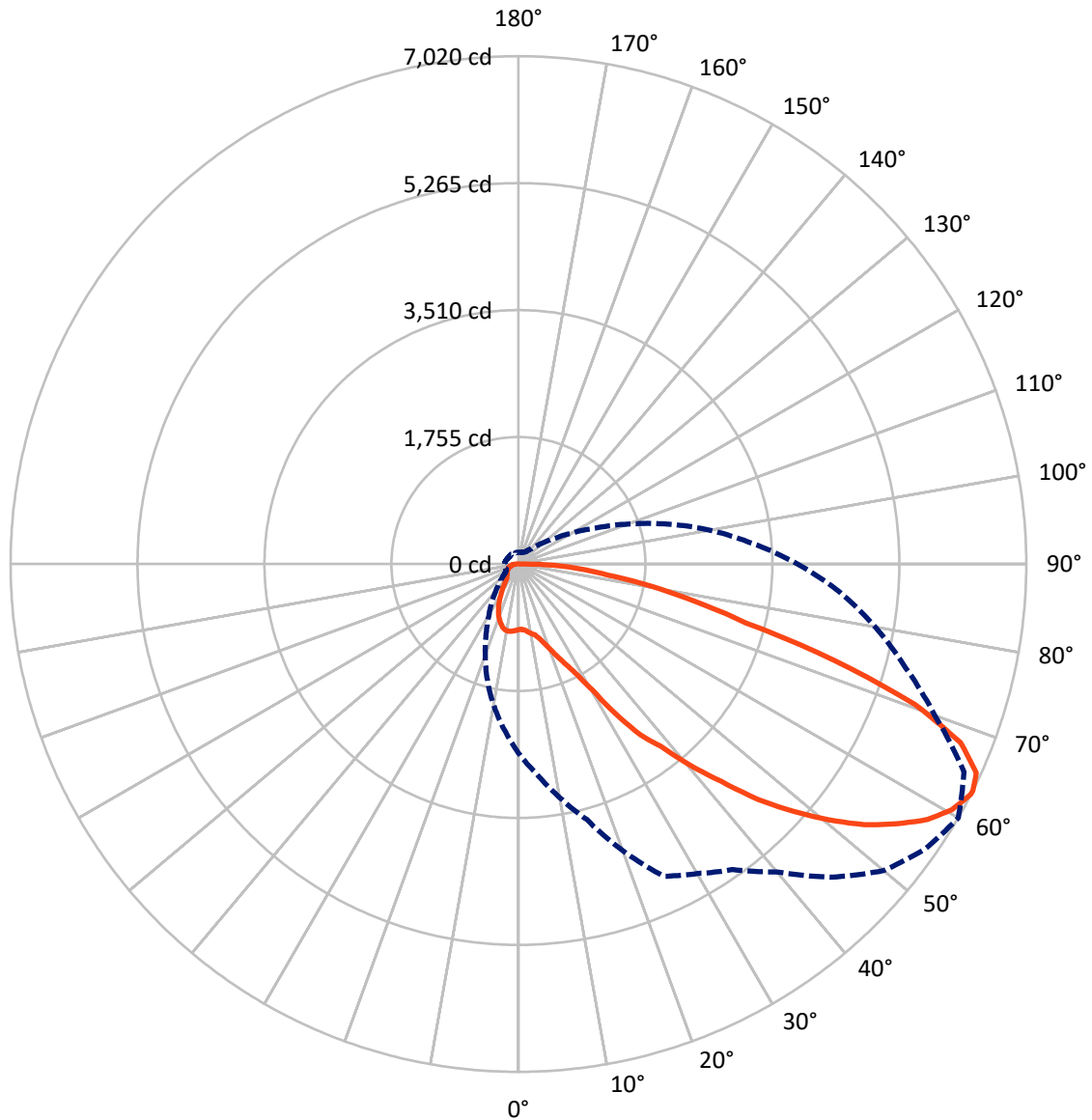
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1544.9	0.0	1544.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5835.3	0.0	5835.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	7380.2	0.0	7380.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.2
10°-20°	277.8	3.8
20°-30°	491.3	6.7
30°-40°	775.7	10.5
40°-50°	1140.6	15.5
50°-60°	1502.5	20.4
60°-70°	1674.7	22.7
70°-80°	1100.3	14.9
80°-90°	328.1	4.4
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°	7380.2	100.0
0°-180°	7380.2	100.0

Coefficient of Utilization



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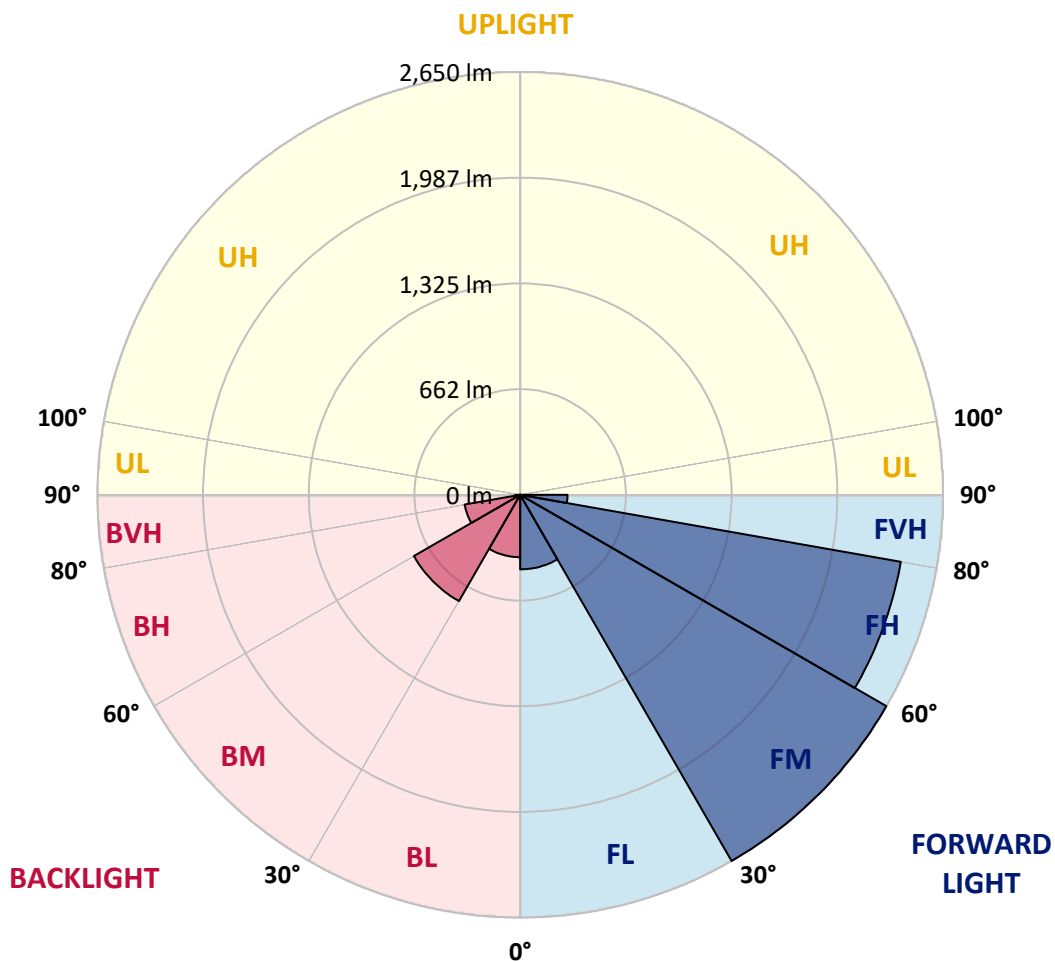
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.1	6.3			
FM	(30°-60°)	2649.7	35.9			
FH	(60°-80°)	2421.9	32.8			G2/5000
FVH	(80°-90°)	296.6	4.0			G3/500
BL	(0°-30°)	391.1	5.3	B1/500		
BM	(30°-60°)	769.2	10.4	B1/1000		
BH	(60°-80°)	353.1	4.8	B1/500		G1/500
BVH	(80°-90°)	31.6	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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	905.3	905.9	904.2	903.7	902.6	903.1	903.1	902.0	902.0	902.6	900.9
5°	900.9	902.0	901.5	902.6	903.7	905.3	907.0	908.6	910.2	912.4	913.0
7.5°	896.0	899.3	899.8	903.1	907.0	911.3	916.8	922.8	931.1	933.3	938.2
10°	898.7	904.8	908.1	914.6	920.7	928.9	938.7	944.8	955.2	959.0	966.1
12.5°	920.1	924.5	928.9	936.5	945.3	955.7	966.7	976.0	987.0	990.8	993.5
15°	960.7	965.0	970.0	977.7	987.0	999.6	1015.5	1027.0	1040.1	1050.0	1057.1
17.5°	1017.1	1017.1	1028.6	1030.8	1048.9	1068.1	1087.8	1110.3	1124.0	1132.2	1145.3
20°	1098.2	1098.2	1113.6	1120.7	1136.0	1160.7	1187.5	1212.2	1231.9	1248.4	1260.4
22.5°	1238.5	1232.5	1245.6	1244.0	1262.6	1299.3	1325.6	1339.3	1365.6	1375.5	1391.4
25°	1401.3	1422.6	1436.9	1436.9	1444.6	1482.4	1504.3	1514.7	1538.8	1531.7	1548.1
27.5°	1600.7	1658.3	1711.4	1733.4	1722.9	1764.6	1772.3	1782.1	1779.4	1762.4	1757.5
30°	1796.9	1898.3	1981.1	2031.5	2089.6	2170.1	2170.1	2183.3	2154.8	2107.6	2079.7
32.5°	1932.8	2063.3	2189.8	2294.5	2393.2	2516.5	2568.5	2640.9	2652.9	2671.0	2608.5
35°	2044.6	2227.7	2363.6	2520.8	2641.4	2766.4	2905.0	3030.5	3113.8	3100.1	3075.4
37.5°	2121.3	2356.4	2546.1	2730.7	2914.3	3057.3	3188.9	3352.7	3512.2	3544.0	3477.1
40°	2175.1	2447.4	2708.3	2935.1	3165.9	3380.7	3540.7	3716.6	3966.5	4072.3	4017.5
42.5°	2200.8	2518.7	2809.6	3098.4	3390.5	3661.8	3862.4	4103.5	4400.0	4580.8	4520.5
45°	2211.8	2562.5	2891.8	3220.7	3571.4	3906.2	4164.9	4438.3	4772.1	5062.5	5073.5
47.5°	2209.0	2586.1	2948.3	3307.8	3713.3	4103.0	4449.8	4760.0	5138.1	5443.4	5556.8
50°	2201.4	2594.3	2982.3	3360.4	3802.6	4247.1	4637.8	5006.6	5429.1	5815.5	5988.1
52.5°	2200.8	2595.9	2999.3	3389.4	3855.3	4335.3	4755.6	5191.3	5654.4	6058.3	6327.3
55°	2214.0	2605.8	3017.9	3409.7	3883.7	4385.2	4821.9	5306.9	5752.5	6211.1	6558.6
57.5°	2267.1	2651.8	3062.3	3444.2	3915.5	4424.6	4873.5	5340.4	5781.5	6274.7	6692.8
60°	2383.8	2737.9	3139.6	3507.8	3998.3	4528.2	4922.2	5293.2	5726.7	6256.6	6712.0
62.5°	2565.8	2876.0	3247.5	3625.1	4166.5	4724.9	4942.5	5185.3	5591.3	6152.5	6629.3
63°	2612.4	2912.7	3276.0	3657.4	4215.3	4762.2	4940.9	5156.8	5554.1	6121.8	6592.0
65°	2806.9	3082.6	3408.6	3812.0	4437.2	4880.6	4881.1	4989.1	5363.9	5952.5	6439.1
67.5°	3099.5	3362.6	3614.7	4015.8	4682.7	4939.8	4704.1	4622.5	4954.0	5594.1	6051.1
70°	3294.6	3619.6	3761.0	4069.5	4716.2	4868.0	4424.1	4151.7	4426.8	4961.7	5367.8
72.5°	3299.6	3670.0	3711.1	3840.5	4403.3	4524.9	3941.8	3573.0	3738.5	4187.3	4401.1
75°	2947.2	3413.0	3328.6	3280.9	3585.6	3637.7	3188.3	3034.9	3247.0	3512.2	3405.3
77.5°	2190.9	2810.2	2638.7	2435.9	2546.6	2554.3	2568.5	2857.9	3118.2	3226.7	3071.0
80°	1359.6	2064.4	1932.8	1598.5	1641.3	1767.3	2145.5	2656.8	2941.7	3019.5	2708.3
82.5°	819.8	1518.5	1448.4	1219.9	1273.6	1587.6	2005.7	2147.1	2243.0	2235.9	1914.2
85°	600.6	1031.4	1126.7	1143.7	1334.4	1541.6	1532.8	1428.1	1369.5	1205.1	1028.6
87.5°	189.1	532.1	631.3	736.0	806.1	762.8	750.2	648.3	464.2	392.4	431.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	900.9	903.1	904.2	903.7	904.2	904.2	907.5	906.4	907.5	907.0	910.2
5°	914.6	917.9	920.7	920.7	921.2	922.3	926.7	926.7	928.9	933.3	935.5
7.5°	941.5	945.9	946.4	947.5	950.8	949.2	951.9	953.0	954.6	956.8	959.6
10°	969.4	975.5	975.5	974.9	975.5	971.1	972.7	969.4	970.0	973.3	976.6
12.5°	1000.7	1004.0	1001.8	1000.1	1000.1	991.9	990.8	986.4	984.2	984.8	985.9
15°	1063.1	1060.4	1059.9	1057.1	1047.2	1041.2	1036.8	1023.1	1016.0	1012.2	1005.6
17.5°	1146.4	1148.1	1145.3	1142.6	1128.4	1108.1	1099.3	1084.5	1074.6	1064.8	1052.7
20°	1268.1	1257.1	1256.0	1247.3	1227.5	1199.0	1177.7	1153.6	1139.9	1125.6	1113.0
22.5°	1402.4	1390.8	1383.2	1366.2	1337.1	1301.0	1265.4	1234.7	1213.8	1203.4	1194.7
25°	1551.4	1544.8	1532.2	1488.9	1465.9	1424.3	1385.4	1355.2	1331.7	1322.9	1307.6
27.5°	1730.1	1735.0	1711.4	1670.9	1641.8	1583.2	1549.8	1497.7	1478.0	1446.2	1426.5
30°	2055.6	2023.8	1983.8	1921.9	1863.2	1784.3	1729.0	1674.7	1645.7	1602.9	1550.3
32.5°	2587.7	2466.6	2359.2	2227.7	2103.3	2002.4	1922.4	1853.9	1809.5	1738.8	1649.5
35°	3016.8	2900.1	2722.5	2531.3	2368.0	2238.6	2137.8	2073.1	1984.3	1871.5	1742.1
37.5°	3331.4	3197.1	3031.0	2884.7	2706.6	2562.5	2426.0	2291.8	2166.8	1995.9	1830.9
40°	3842.1	3660.2	3386.7	3214.1	3068.3	2873.2	2745.5	2564.7	2374.5	2154.2	1915.3
42.5°	4347.4	4106.2	3858.5	3660.2	3453.0	3241.5	3066.1	2823.3	2570.7	2285.2	1990.9
45°	4934.3	4638.9	4315.0	4037.7	3825.1	3576.3	3351.6	3053.5	2731.3	2392.6	2056.7
47.5°	5396.8	5104.2	4738.6	4459.2	4172.5	3892.0	3600.4	3232.7	2850.7	2480.3	2118.1
50°	5840.1	5557.9	5169.4	4826.3	4497.0	4158.3	3805.9	3359.9	2944.5	2548.8	2166.8
52.5°	6238.0	5987.0	5567.2	5157.3	4789.1	4398.9	3962.1	3478.8	3034.3	2619.5	2205.2
55°	6575.0	6339.9	5963.4	5453.2	5035.1	4603.3	4109.5	3587.3	3129.1	2693.5	2233.1
57.5°	6801.4	6665.4	6263.2	5713.6	5237.3	4777.6	4220.8	3696.3	3217.9	2739.5	2245.2
60°	6906.6	6888.5	6548.2	5948.7	5417.1	4913.5	4361.1	3812.0	3276.6	2760.3	2228.2
62.5°	6884.7	7014.0	6765.2	6109.8	5531.6	4998.4	4450.9	3861.8	3261.8	2709.9	2153.1
63°	6864.4	7019.5	6795.9	6125.7	5540.9	5006.6	4459.7	3855.8	3248.1	2687.4	2127.4
65°	6715.9	6954.8	6803.5	6097.2	5498.2	4983.1	4420.3	3761.0	3111.6	2546.1	1981.6
67.5°	6352.0	6591.5	6507.6	5783.2	5221.4	4729.9	4144.6	3438.2	2777.3	2245.7	1711.4
70°	5600.7	5814.9	5714.7	5077.3	4555.6	4207.1	3650.8	2859.5	2262.7	1805.1	1302.6
72.5°	4430.1	4580.8	4602.7	4096.4	3696.9	3487.5	2941.2	2157.0	1652.8	1257.1	845.6
75°	3280.4	3245.3	3252.4	2969.7	2806.9	2718.7	2198.6	1479.6	1113.6	768.3	501.4
77.5°	2757.0	2505.0	2290.1	2211.8	2022.2	1967.4	1450.0	908.1	649.9	459.8	285.5
80°	2241.9	1859.9	1547.6	1408.9	1335.0	1345.9	802.3	483.9	340.3	250.4	178.7
82.5°	1532.8	1242.3	979.8	851.1	837.9	850.5	417.0	237.3	179.7	144.1	112.3
85°	906.4	853.3	761.7	676.2	646.7	610.5	310.2	169.9	92.6	76.7	63.0
87.5°	391.8	481.2	492.7	490.5	456.5	366.6	114.0	43.8	38.9	19.7	15.9
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	910.2	910.8	909.7	910.8	914.6	914.6	914.1	915.2	915.7	919.0	917.9
5°	937.6	938.2	938.7	942.6	945.3	948.6	947.5	948.6	950.8	951.3	952.4
7.5°	962.9	966.1	970.5	972.2	977.1	978.2	983.1	983.7	984.8	982.6	980.4
10°	980.4	983.7	989.2	991.9	1000.7	1001.8	1005.6	1006.7	1008.9	1007.2	1005.6
12.5°	989.2	991.9	997.9	1003.4	1015.5	1019.3	1025.9	1029.7	1032.5	1030.8	1025.3
15°	1007.2	1006.7	1010.0	1014.4	1025.3	1032.5	1041.8	1046.7	1050.0	1047.2	1040.1
17.5°	1048.9	1041.2	1041.2	1038.5	1046.7	1048.3	1052.2	1054.9	1053.8	1045.6	1034.1
20°	1106.4	1094.9	1087.8	1081.2	1078.5	1064.8	1057.7	1047.8	1039.0	1024.2	1011.1
22.5°	1181.0	1172.7	1156.3	1141.5	1120.7	1092.7	1062.6	1036.8	1017.7	997.4	974.9
25°	1293.9	1275.2	1251.7	1216.6	1189.7	1140.4	1090.0	1041.2	1000.1	968.3	930.5
27.5°	1400.2	1360.7	1316.3	1261.5	1212.2	1146.4	1082.3	1025.9	972.2	921.2	877.9
30°	1488.9	1420.4	1348.1	1271.4	1201.2	1121.8	1047.2	983.1	922.3	862.0	820.9
32.5°	1555.8	1457.2	1360.7	1262.6	1176.0	1082.9	997.4	928.9	859.8	796.3	748.6
35°	1616.1	1482.9	1356.9	1239.1	1136.6	1033.5	941.5	864.8	789.1	721.2	666.4
37.5°	1659.4	1491.7	1340.4	1205.1	1086.2	973.3	873.5	791.9	710.8	641.7	581.4
40°	1692.8	1487.3	1309.2	1153.0	1017.1	899.8	802.3	716.8	635.7	566.6	503.6
42.5°	1715.3	1470.9	1262.1	1093.8	959.6	836.8	741.5	651.6	570.5	498.1	428.5
45°	1744.3	1464.3	1233.0	1049.4	907.5	783.7	681.7	594.0	509.6	434.0	367.7
47.5°	1771.7	1460.4	1209.5	1012.7	860.4	735.4	634.6	542.5	457.6	383.6	323.3
50°	1788.2	1454.4	1184.8	968.3	807.8	686.1	589.7	496.5	411.0	340.3	286.6
52.5°	1793.1	1442.4	1152.5	917.9	762.3	643.9	543.6	450.5	368.3	304.7	254.8
55°	1789.3	1418.8	1108.6	876.8	715.7	597.3	497.0	406.6	332.1	272.4	232.4
57.5°	1770.6	1371.7	1052.2	824.8	662.5	538.7	440.1	357.3	291.0	243.3	212.6
60°	1729.0	1303.7	983.1	751.9	586.4	469.1	375.9	304.7	248.8	214.3	194.0
62.5°	1638.0	1205.6	882.8	648.8	484.4	376.5	295.4	242.8	205.0	186.9	174.8
63°	1611.2	1171.6	853.3	621.4	466.9	355.7	277.3	229.6	195.6	180.8	171.0
65°	1469.8	1014.9	721.2	499.8	361.7	269.6	211.5	180.3	162.2	156.7	154.0
67.5°	1204.5	789.7	507.5	335.4	242.8	186.3	156.2	144.1	137.6	137.0	138.6
70°	851.1	523.9	314.0	214.8	167.1	140.8	129.3	123.9	120.6	121.7	124.9
72.5°	553.5	307.4	198.4	157.3	135.9	123.9	115.6	114.0	112.9	111.8	112.9
75°	292.6	192.4	150.2	131.5	118.9	109.1	103.6	101.4	101.9	101.9	101.9
77.5°	181.4	146.3	128.2	116.2	106.3	96.4	91.0	89.3	89.9	91.0	91.5
80°	139.2	127.7	112.9	104.1	89.9	81.7	78.9	78.4	79.5	79.5	81.1
82.5°	101.9	98.6	93.2	82.2	71.2	65.8	65.2	67.4	65.2	64.7	65.8
85°	59.7	55.9	60.8	52.1	47.7	44.4	46.6	51.0	53.2	50.4	49.3
87.5°	19.2	13.2	19.2	21.4	19.2	16.4	20.8	24.7	25.2	24.1	27.4
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: P145739

CATALOG NUMBER: LDRL-SLL-E03-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	917.4	921.2	917.4	919.0	918.5	917.4	919.0	916.8	915.7	919.0	918.5
5°	951.9	952.4	947.5	948.1	947.5	943.1	943.1	940.9	938.2	938.7	937.6
7.5°	979.8	978.7	974.9	973.3	968.3	965.0	962.9	959.6	957.4	955.2	954.1
10°	1001.2	998.5	995.7	990.8	985.9	983.1	977.1	972.2	970.5	967.2	965.0
12.5°	1019.8	1014.9	1010.5	1004.5	998.5	994.1	987.0	983.1	980.4	976.0	972.7
15°	1030.3	1020.9	1012.7	1003.4	996.8	990.3	982.0	980.4	976.6	972.2	966.1
17.5°	1017.7	1004.5	989.2	979.3	969.4	959.6	951.3	951.3	949.7	944.8	934.4
20°	991.9	972.2	954.1	938.2	928.3	914.1	909.1	901.5	896.0	887.2	874.1
22.5°	949.7	928.9	905.3	889.4	872.4	856.5	846.7	834.6	830.2	816.0	798.5
25°	902.6	872.4	847.2	826.4	802.8	784.2	770.5	754.1	743.1	729.4	707.5
27.5°	846.7	815.4	786.9	763.9	739.3	713.5	688.3	669.1	649.4	633.5	620.9
30°	786.4	754.1	719.0	692.1	663.6	631.3	610.5	584.7	569.4	551.8	535.4
32.5°	707.5	679.0	637.9	606.6	571.6	546.4	529.4	504.7	486.6	471.8	462.5
35°	620.9	578.2	537.0	513.5	489.4	469.1	445.5	426.4	414.3	399.0	390.7
37.5°	526.6	476.8	441.7	420.9	396.2	386.3	371.6	360.0	349.1	338.7	332.1
40°	442.2	396.2	364.4	346.9	330.5	319.5	310.2	305.2	298.1	289.9	285.0
42.5°	372.1	335.4	304.1	287.7	275.1	274.0	268.0	264.1	261.4	256.5	248.8
45°	317.3	283.9	257.0	243.9	238.4	238.9	238.9	235.6	235.6	234.0	229.1
47.5°	280.6	250.4	230.7	221.9	219.8	220.3	218.7	217.6	218.1	217.6	214.8
50°	252.1	226.3	209.9	206.6	206.1	205.5	203.3	201.7	201.1	202.2	201.7
52.5°	223.0	201.7	192.4	191.3	191.8	191.8	191.3	190.7	191.8	192.9	191.3
55°	206.6	191.3	185.2	185.2	185.2	185.2	184.7	184.1	185.8	187.4	184.7
57.5°	191.3	180.3	178.1	178.1	178.1	177.0	177.0	177.6	179.7	183.0	179.7
60°	179.7	174.3	174.3	174.8	174.3	172.1	170.4	170.4	173.2	177.6	174.8
62.5°	168.8	166.0	167.1	166.6	165.5	162.8	160.6	160.6	163.9	168.2	169.3
63°	166.0	163.9	165.0	164.4	163.3	161.1	158.9	158.9	161.7	166.0	167.7
65°	154.0	154.5	155.1	155.6	155.1	154.5	151.8	150.7	152.9	156.2	158.4
67.5°	139.7	140.8	141.9	144.7	143.6	143.6	141.9	140.8	141.4	143.0	144.7
70°	126.6	127.7	129.3	130.4	131.0	131.5	130.4	128.8	129.3	129.9	131.0
72.5°	114.0	115.1	116.2	118.4	118.4	118.4	117.3	116.2	116.7	117.8	118.9
75°	102.5	103.0	104.1	105.8	106.3	105.2	105.2	104.1	104.7	106.3	107.4
77.5°	91.0	89.9	90.4	91.5	93.2	93.2	93.7	93.2	94.3	95.4	96.4
80°	77.8	76.7	75.6	76.2	78.4	81.1	83.8	83.8	85.5	86.0	87.7
82.5°	61.9	60.8	60.3	61.9	61.4	65.2	71.2	74.5	76.7	78.9	80.0
85°	48.2	45.5	46.6	46.6	45.5	51.5	57.0	61.4	61.9	65.2	65.8
87.5°	28.5	27.4	26.3	25.2	29.0	35.1	40.0	41.6	42.7	44.4	46.0
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	914.1	918.5	917.4	916.8	917.4	916.8	915.2	915.7	914.6	915.2	914.1
5°	931.6	933.8	932.2	929.4	929.4	925.6	922.8	920.7	917.9	916.8	914.6
7.5°	948.6	947.0	944.8	939.8	937.1	932.2	928.3	923.9	921.2	917.9	914.1
10°	959.0	955.7	951.3	945.3	937.6	933.3	927.8	921.2	917.9	916.3	912.4
12.5°	963.9	955.2	948.1	937.1	926.1	917.9	911.9	905.3	903.7	901.5	898.7
15°	952.4	939.8	921.8	907.0	892.7	881.2	876.3	869.1	867.5	867.0	866.4
17.5°	913.5	894.4	876.8	857.1	844.5	834.1	829.7	828.0	825.3	824.2	824.8
20°	851.1	834.6	817.1	810.5	795.7	793.0	786.4	782.0	777.1	775.4	772.7
22.5°	778.2	757.9	746.9	742.0	736.0	721.7	718.4	714.1	707.5	702.5	701.5
25°	693.2	676.8	676.2	664.7	659.8	652.1	643.4	637.9	634.0	628.0	623.6
27.5°	606.6	600.6	590.2	581.4	578.2	573.8	560.6	557.9	553.5	548.6	543.6
30°	526.1	521.7	511.8	503.6	498.7	489.9	477.3	478.4	469.6	463.1	458.7
32.5°	447.7	444.4	435.1	432.9	417.0	412.7	399.5	389.6	380.9	374.3	368.8
35°	377.0	368.3	368.8	358.9	350.2	337.0	323.3	310.7	303.6	300.3	295.4
37.5°	326.1	317.8	309.6	298.7	288.8	279.5	271.3	267.4	263.0	264.1	264.7
40°	280.0	274.0	268.0	260.3	254.3	250.4	248.2	248.2	248.8	251.5	253.7
42.5°	247.2	242.2	238.9	236.2	237.3	237.3	238.9	241.7	244.4	248.2	250.4
45°	225.2	222.5	221.4	222.5	225.8	228.5	232.4	236.7	241.1	245.0	246.6
47.5°	212.1	210.4	210.4	213.2	218.1	222.5	228.5	232.9	237.8	241.1	242.2
50°	197.8	197.3	197.3	199.5	203.9	209.3	215.4	219.8	224.1	226.9	228.0
52.5°	189.6	188.0	187.4	190.2	194.0	199.5	205.5	209.9	213.2	215.4	215.9
55°	182.5	180.8	179.7	183.0	187.4	192.4	199.5	204.4	207.7	210.4	212.6
57.5°	176.5	174.8	173.7	177.6	181.9	188.0	194.0	199.5	203.9	207.1	209.3
60°	171.5	169.3	168.2	172.6	177.0	183.0	189.1	195.1	201.1	205.0	206.1
62.5°	165.5	163.9	162.2	165.0	167.1	171.5	177.0	183.0	188.5	192.4	192.4
63°	163.9	163.3	161.1	163.3	165.5	169.3	174.8	180.3	185.8	190.2	189.6
65°	156.7	156.7	155.6	157.8	160.0	163.9	168.2	174.3	179.2	182.5	183.0
67.5°	145.2	145.8	146.9	149.1	153.4	157.3	162.2	167.7	172.1	174.3	175.4
70°	132.1	133.2	135.4	138.6	142.5	145.8	149.1	154.5	158.4	160.6	161.7
72.5°	119.5	122.2	123.9	126.6	128.8	132.1	134.8	140.3	143.6	145.2	148.0
75°	108.0	110.2	111.2	112.9	115.1	116.2	119.5	121.7	126.0	128.2	131.5
77.5°	97.0	98.1	99.7	102.5	103.0	104.7	105.8	109.1	111.2	113.4	116.2
80°	87.1	88.2	90.4	92.1	92.6	93.7	94.3	93.7	93.2	91.5	93.7
82.5°	78.4	79.5	82.2	83.8	85.5	85.5	84.9	78.9	76.2	77.3	78.9
85°	64.7	65.8	68.5	71.8	72.3	71.8	72.3	66.3	62.5	60.8	62.5
87.5°	40.6	39.5	48.8	53.2	49.9	51.0	51.5	48.2	44.9	38.4	40.0
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: LDRL-SLL-E03-E-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	0°
2.5°	915.2	911.3	911.9	913.0	913.0	914.6	912.4	909.7	911.3	908.6	908.1	2.5°
5°	914.6	909.7	909.7	910.8	909.7	910.8	909.1	906.4	908.1	904.8	904.2	5°
7.5°	912.4	909.7	910.8	911.9	910.2	910.8	910.2	906.4	907.0	905.3	901.5	7.5°
10°	911.3	909.7	911.9	915.2	915.2	915.7	914.1	909.7	907.0	905.3	902.0	10°
12.5°	899.8	902.0	906.4	914.1	916.8	921.2	923.4	921.2	922.3	920.1	919.0	12.5°
15°	867.0	872.4	879.6	891.1	899.3	909.1	921.2	926.7	937.1	945.3	950.8	15°
17.5°	827.5	831.3	839.0	852.2	862.6	882.3	898.7	917.4	937.6	959.6	978.7	17.5°
20°	778.7	776.0	788.0	802.3	820.4	842.3	866.4	894.4	927.8	962.9	996.3	20°
22.5°	706.9	706.9	719.5	736.5	758.4	783.7	817.1	847.2	891.1	942.0	991.4	22.5°
25°	624.7	626.4	635.1	654.3	669.7	705.8	737.1	776.0	828.6	884.5	950.2	25°
27.5°	537.0	548.0	545.8	566.1	586.4	622.0	664.7	704.2	762.8	822.6	897.6	27.5°
30°	457.6	455.9	455.4	479.5	499.8	532.1	567.2	617.1	676.2	753.0	839.6	30°
32.5°	358.9	365.0	369.4	383.6	405.5	435.7	473.5	525.5	596.8	674.1	771.6	32.5°
35°	296.5	298.1	304.1	312.4	331.5	356.8	396.2	442.2	504.7	584.7	688.3	35°
37.5°	265.8	267.4	274.0	281.7	295.4	314.0	340.9	376.5	434.0	508.6	605.0	37.5°
40°	255.9	257.6	261.4	268.5	281.1	297.0	318.4	345.8	387.4	445.5	529.9	40°
42.5°	251.5	251.5	252.1	257.6	270.2	288.8	311.8	336.5	367.2	411.0	479.5	42.5°
45°	246.6	246.6	246.1	249.9	259.8	281.1	309.1	339.2	372.6	410.5	464.2	45°
47.5°	242.2	241.1	240.0	241.7	249.9	271.8	304.1	340.9	383.6	430.7	485.0	47.5°
50°	226.9	226.9	226.3	226.9	234.5	257.6	294.8	339.2	393.5	454.3	520.1	50°
52.5°	215.9	216.5	217.0	217.0	223.0	246.6	287.7	339.8	404.4	477.3	560.6	52.5°
55°	213.2	214.3	214.3	213.2	218.1	239.5	281.1	338.1	412.1	503.1	603.9	55°
57.5°	209.9	210.4	211.0	209.9	213.2	231.8	271.8	330.5	409.9	512.9	636.2	57.5°
60°	205.5	203.3	202.8	201.1	203.3	218.1	255.4	314.0	396.8	508.6	647.2	60°
62.5°	193.4	191.8	190.2	188.5	190.2	201.1	237.3	293.7	374.8	491.0	638.4	62.5°
63°	190.7	189.6	188.0	186.3	186.3	198.4	231.3	288.8	369.4	486.1	635.1	63°
65°	183.0	182.5	181.4	179.7	179.2	188.5	217.6	266.3	343.6	464.2	614.3	65°
67.5°	174.3	174.3	173.7	171.5	168.8	174.3	194.5	232.9	298.7	407.7	562.8	67.5°
70°	161.7	161.7	161.1	160.0	156.7	160.6	173.7	198.9	246.1	333.2	471.8	70°
72.5°	149.1	149.1	150.7	150.2	150.7	151.3	157.8	171.5	200.0	259.2	356.8	72.5°
75°	132.6	135.4	135.9	137.0	137.6	137.0	140.3	148.5	165.0	198.9	260.3	75°
77.5°	118.9	122.8	122.2	121.1	120.6	121.1	120.6	124.4	136.5	157.8	192.9	77.5°
80°	98.1	101.9	101.9	101.4	100.3	101.4	100.3	104.1	114.0	132.6	153.4	80°
82.5°	80.6	83.3	84.9	86.0	84.9	89.3	89.3	88.2	95.9	112.3	129.3	82.5°
85°	64.7	67.4	69.0	71.2	72.3	71.2	70.7	69.6	74.0	87.1	98.6	85°
87.5°	41.1	43.3	43.3	43.8	43.8	45.5	42.2	38.4	35.1	49.9	52.1	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°
906.4	906.4	906.4	906.4	906.4	906.4	906.4
906.4	906.4	907.0	905.3	907.0	907.0	905.3
902.6	901.5	901.5	900.9	902.0	901.5	900.9
899.3	899.3	897.1	895.4	894.9	897.1	896.0
898.2	897.1	896.5	895.4	896.0	897.6	898.7
917.9	914.1	915.2	914.6	915.2	916.8	920.1
954.1	954.1	956.8	950.8	953.5	956.3	960.7
994.6	1004.5	1009.4	1008.9	1010.0	1012.2	1017.1
1029.2	1060.4	1082.3	1087.8	1102.6	1105.9	1098.2
1044.5	1100.4	1149.7	1182.6	1219.3	1234.1	1238.5
1013.3	1093.8	1174.9	1250.6	1322.9	1364.5	1401.3
980.9	1076.3	1184.3	1297.1	1415.0	1521.3	1600.7
936.0	1062.0	1207.8	1360.2	1516.3	1664.3	1796.9
886.7	1039.0	1210.0	1395.2	1588.1	1772.3	1932.8
816.0	985.3	1174.9	1389.8	1613.3	1844.1	2044.6
734.9	899.8	1112.5	1358.0	1611.7	1880.8	2121.3
648.3	817.1	1040.7	1303.7	1590.3	1892.3	2175.1
583.1	750.2	969.4	1252.2	1558.5	1884.6	2200.8
549.7	692.7	911.3	1201.8	1522.9	1866.0	2211.8
556.2	677.3	876.8	1160.1	1491.1	1845.7	2209.0
592.9	700.4	876.3	1144.8	1470.9	1827.1	2201.4
648.3	752.4	908.1	1162.9	1481.8	1825.4	2200.8
710.8	825.3	984.8	1211.7	1528.4	1855.0	2214.0
771.1	914.1	1083.4	1320.7	1616.6	1929.0	2267.1
806.7	995.2	1210.0	1474.7	1752.5	2058.9	2383.8
814.9	1044.0	1322.3	1625.9	1938.9	2246.8	2565.8
814.3	1048.9	1341.5	1657.2	1976.7	2290.1	2612.4
801.7	1058.8	1393.0	1760.2	2128.5	2475.9	2806.9
762.3	1041.2	1421.5	1856.1	2279.2	2680.9	3099.5
671.9	961.2	1388.1	1887.3	2369.0	2816.8	3294.6
526.1	793.0	1198.5	1725.1	2247.4	2695.1	3299.6
369.9	560.6	922.3	1416.6	1836.9	2277.5	2947.2
257.6	363.3	599.0	953.0	1325.6	1661.6	2190.9
188.5	241.7	358.9	569.9	804.5	1038.5	1359.6
145.2	174.3	229.6	344.2	454.3	581.4	819.8
101.9	115.1	141.9	212.6	304.7	415.9	600.6
44.4	52.1	68.5	125.5	206.1	198.4	189.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)