

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: P145740

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145740
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8080.3 lumens
Efficiency: N/A
Efficacy: 107.5 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

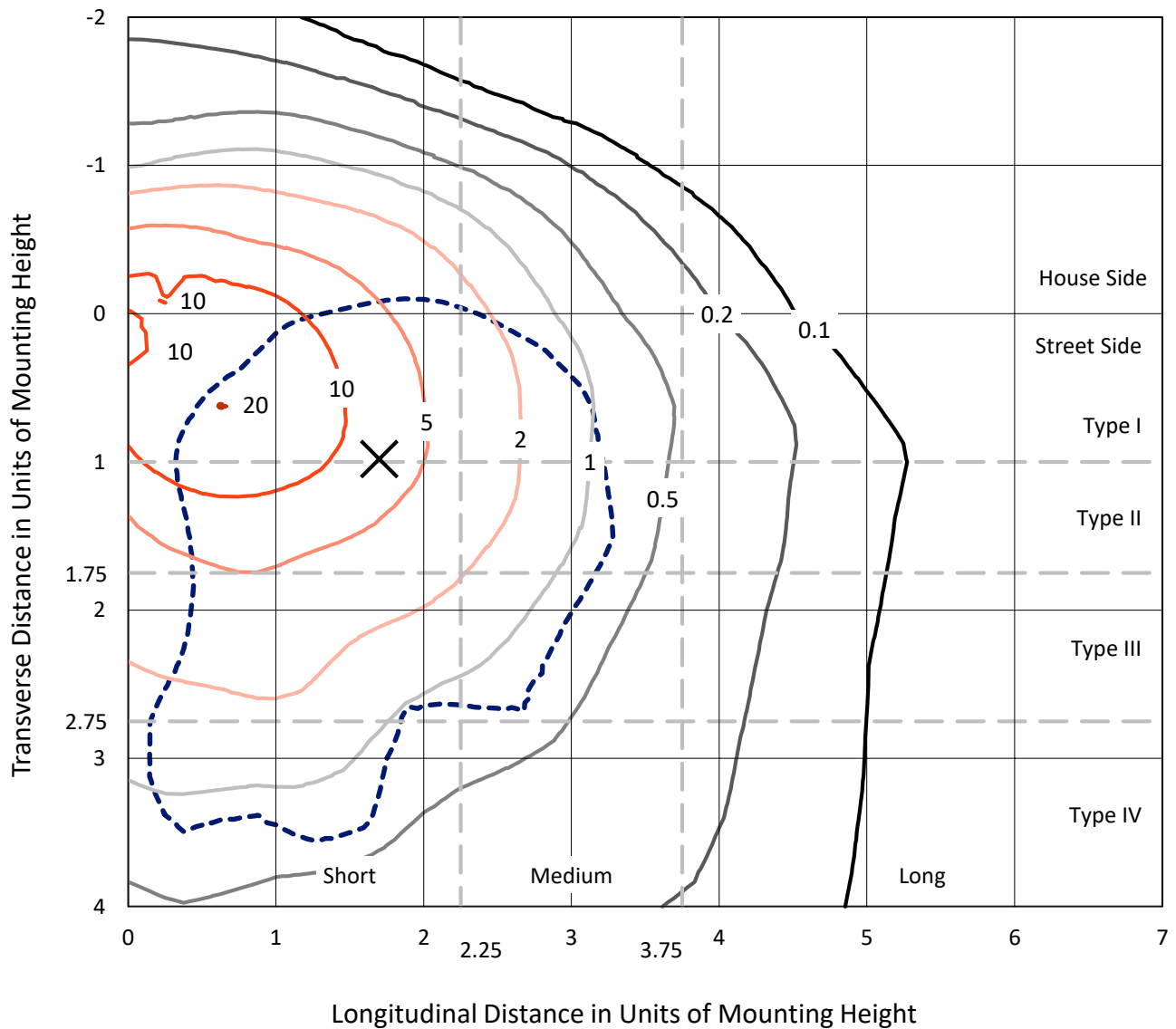
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

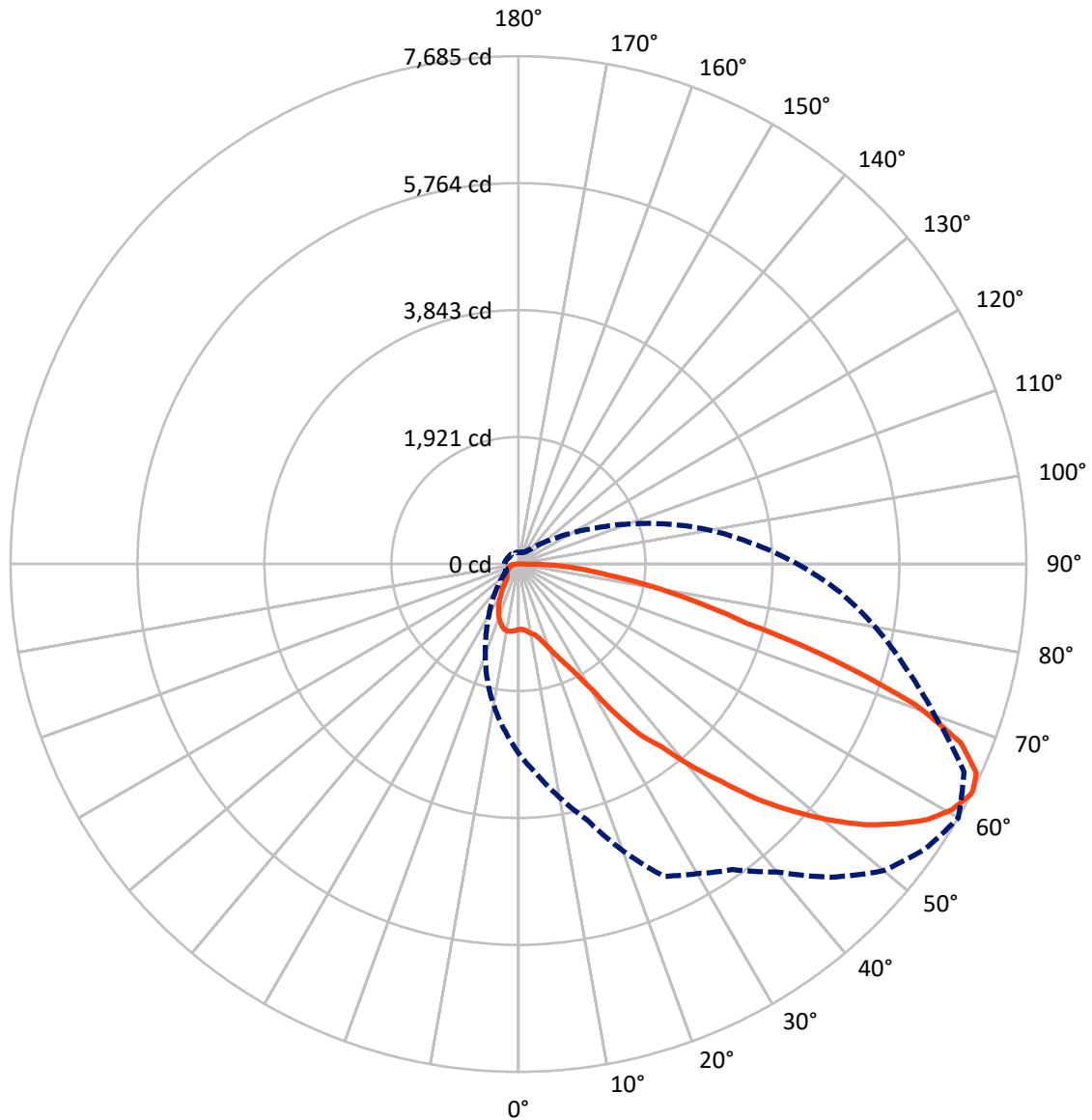
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.1 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	1691.4	0.0	1691.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6388.9	0.0	6388.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	8080.3	0.0	8080.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.2
10°-20°	304.2	3.8
20°-30°	537.9	6.7
30°-40°	849.3	10.5
40°-50°	1248.8	15.5
50°-60°	1645.1	20.4
60°-70°	1833.6	22.7
70°-80°	1204.7	14.9
80°-90°	359.3	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°	8080.3	100.0
0°-180°	8080.3	100.0

Coefficient of Utilization



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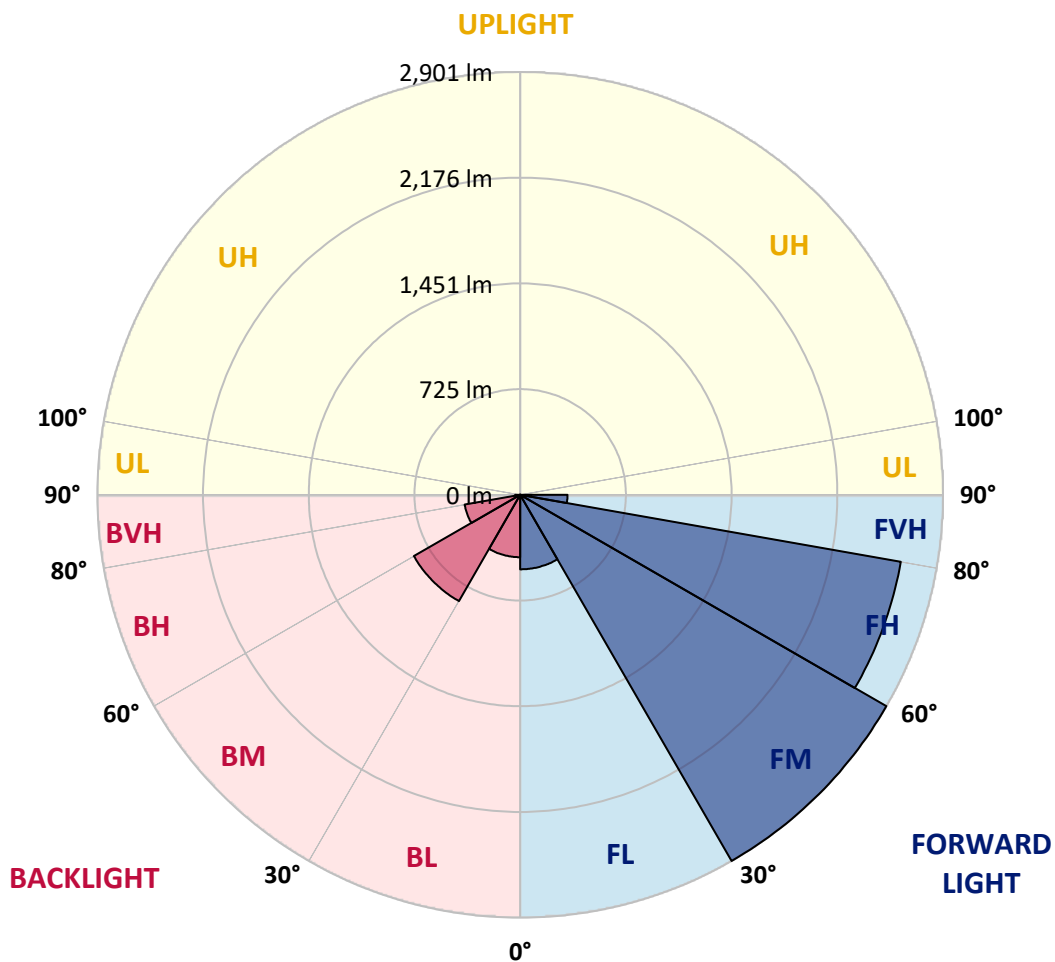
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.4	6.3			
FM	(30°-60°)	2901.0	35.9			
FH	(60°-80°)	2651.7	32.8			G2/5000
FVH	(80°-90°)	324.7	4.0			G3/500
BL	(0°-30°)	428.2	5.3	B1/500		
BM	(30°-60°)	842.1	10.4	B1/1000		
BH	(60°-80°)	386.6	4.8	B1/500		G1/500
BVH	(80°-90°)	34.6	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°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	991.2	991.8	990.0	989.4	988.2	988.8	988.8	987.6	987.6	988.2	986.4
5°	986.4	987.6	987.0	988.2	989.4	991.2	993.0	994.8	996.6	999.0	999.6
7.5°	981.0	984.6	985.2	988.8	993.0	997.8	1003.8	1010.4	1019.4	1021.8	1027.2
10°	984.0	990.6	994.2	1001.4	1008.0	1017.0	1027.8	1034.4	1045.8	1050.0	1057.8
12.5°	1007.4	1012.2	1017.0	1025.4	1035.0	1046.4	1058.4	1068.6	1080.6	1084.8	1087.8
15°	1051.8	1056.6	1062.0	1070.4	1080.6	1094.4	1111.8	1124.4	1138.8	1149.6	1157.4
17.5°	1113.6	1113.6	1126.2	1128.6	1148.4	1169.4	1191.0	1215.6	1230.6	1239.6	1254.0
20°	1202.4	1202.4	1219.2	1227.0	1243.8	1270.8	1300.2	1327.2	1348.8	1366.8	1380.0
22.5°	1356.0	1349.4	1363.8	1362.0	1382.4	1422.6	1451.4	1466.4	1495.2	1506.0	1523.4
25°	1534.2	1557.6	1573.2	1573.2	1581.6	1623.0	1647.0	1658.4	1684.8	1677.0	1695.0
27.5°	1752.6	1815.6	1873.8	1897.8	1886.4	1932.0	1940.4	1951.2	1948.2	1929.6	1924.2
30°	1967.4	2078.4	2169.0	2224.2	2287.8	2376.0	2376.0	2390.4	2359.2	2307.6	2277.0
32.5°	2116.2	2259.0	2397.6	2512.2	2620.2	2755.2	2812.2	2891.4	2904.6	2924.4	2856.0
35°	2238.6	2439.0	2587.8	2760.0	2892.0	3028.8	3180.6	3318.0	3409.2	3394.2	3367.2
37.5°	2322.6	2580.0	2787.6	2989.8	3190.8	3347.4	3491.4	3670.8	3845.4	3880.2	3807.0
40°	2381.4	2679.6	2965.2	3213.6	3466.2	3701.4	3876.6	4069.2	4342.8	4458.6	4398.6
42.5°	2409.6	2757.6	3076.2	3392.4	3712.2	4009.2	4228.8	4492.8	4817.4	5015.4	4949.4
45°	2421.6	2805.6	3166.2	3526.2	3910.2	4276.8	4560.0	4859.4	5224.8	5542.8	5554.8
47.5°	2418.6	2831.4	3228.0	3621.6	4065.6	4492.2	4872.0	5211.6	5625.6	5959.8	6084.0
50°	2410.2	2840.4	3265.2	3679.2	4163.4	4650.0	5077.8	5481.6	5944.2	6367.2	6556.2
52.5°	2409.6	2842.2	3283.8	3711.0	4221.0	4746.6	5206.8	5683.8	6190.8	6633.0	6927.6
55°	2424.0	2853.0	3304.2	3733.2	4252.2	4801.2	5279.4	5810.4	6298.2	6800.4	7180.8
57.5°	2482.2	2903.4	3352.8	3771.0	4287.0	4844.4	5335.8	5847.0	6330.0	6870.0	7327.8
60°	2610.0	2997.6	3437.4	3840.6	4377.6	4957.8	5389.2	5795.4	6270.0	6850.2	7348.8
62.5°	2809.2	3148.8	3555.6	3969.0	4561.8	5173.2	5411.4	5677.2	6121.8	6736.2	7258.2
63°	2860.2	3189.0	3586.8	4004.4	4615.2	5214.0	5409.6	5646.0	6081.0	6702.6	7217.4
65°	3073.2	3375.0	3732.0	4173.6	4858.2	5343.6	5344.2	5462.4	5872.8	6517.2	7050.0
67.5°	3393.6	3681.6	3957.6	4396.8	5127.0	5408.4	5150.4	5061.0	5424.0	6124.8	6625.2
70°	3607.2	3963.0	4117.8	4455.6	5163.6	5329.8	4843.8	4545.6	4846.8	5432.4	5877.0
72.5°	3612.6	4018.2	4063.2	4204.8	4821.0	4954.2	4315.8	3912.0	4093.2	4584.6	4818.6
75°	3226.8	3736.8	3644.4	3592.2	3925.8	3982.8	3490.8	3322.8	3555.0	3845.4	3728.4
77.5°	2398.8	3076.8	2889.0	2667.0	2788.2	2796.6	2812.2	3129.0	3414.0	3532.8	3362.4
80°	1488.6	2260.2	2116.2	1750.2	1797.0	1935.0	2349.0	2908.8	3220.8	3306.0	2965.2
82.5°	897.6	1662.6	1585.8	1335.6	1394.4	1738.2	2196.0	2350.8	2455.8	2448.0	2095.8
85°	657.6	1129.2	1233.6	1252.2	1461.0	1687.8	1678.2	1563.6	1499.4	1319.4	1126.2
87.5°	207.0	582.6	691.2	805.8	882.6	835.2	821.4	709.8	508.2	429.6	472.2
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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	986.4	988.8	990.0	989.4	990.0	990.0	993.6	992.4	993.6	993.0	996.6
5°	1001.4	1005.0	1008.0	1008.0	1008.6	1009.8	1014.6	1014.6	1017.0	1021.8	1024.2
7.5°	1030.8	1035.6	1036.2	1037.4	1041.0	1039.2	1042.2	1043.4	1045.2	1047.6	1050.6
10°	1061.4	1068.0	1068.0	1067.4	1068.0	1063.2	1065.0	1061.4	1062.0	1065.6	1069.2
12.5°	1095.6	1099.2	1096.8	1095.0	1095.0	1086.0	1084.8	1080.0	1077.6	1078.2	1079.4
15°	1164.0	1161.0	1160.4	1157.4	1146.6	1140.0	1135.2	1120.2	1112.4	1108.2	1101.0
17.5°	1255.2	1257.0	1254.0	1251.0	1235.4	1213.2	1203.6	1187.4	1176.6	1165.8	1152.6
20°	1388.4	1376.4	1375.2	1365.6	1344.0	1312.8	1289.4	1263.0	1248.0	1232.4	1218.6
22.5°	1535.4	1522.8	1514.4	1495.8	1464.0	1424.4	1385.4	1351.8	1329.0	1317.6	1308.0
25°	1698.6	1691.4	1677.6	1630.2	1605.0	1559.4	1516.8	1483.8	1458.0	1448.4	1431.6
27.5°	1894.2	1899.6	1873.8	1829.4	1797.6	1733.4	1696.8	1639.8	1618.2	1583.4	1561.8
30°	2250.6	2215.8	2172.0	2104.2	2040.0	1953.6	1893.0	1833.6	1801.8	1755.0	1697.4
32.5°	2833.2	2700.6	2583.0	2439.0	2302.8	2192.4	2104.8	2029.8	1981.2	1903.8	1806.0
35°	3303.0	3175.2	2980.8	2771.4	2592.6	2451.0	2340.6	2269.8	2172.6	2049.0	1907.4
37.5°	3647.4	3500.4	3318.6	3158.4	2963.4	2805.6	2656.2	2509.2	2372.4	2185.2	2004.6
40°	4206.6	4007.4	3708.0	3519.0	3359.4	3145.8	3006.0	2808.0	2599.8	2358.6	2097.0
42.5°	4759.8	4495.8	4224.6	4007.4	3780.6	3549.0	3357.0	3091.2	2814.6	2502.0	2179.8
45°	5402.4	5079.0	4724.4	4420.8	4188.0	3915.6	3669.6	3343.2	2990.4	2619.6	2251.8
47.5°	5908.8	5588.4	5188.2	4882.2	4568.4	4261.2	3942.0	3539.4	3121.2	2715.6	2319.0
50°	6394.2	6085.2	5659.8	5284.2	4923.6	4552.8	4167.0	3678.6	3223.8	2790.6	2372.4
52.5°	6829.8	6555.0	6095.4	5646.6	5243.4	4816.2	4338.0	3808.8	3322.2	2868.0	2414.4
55°	7198.8	6941.4	6529.2	5970.6	5512.8	5040.0	4499.4	3927.6	3426.0	2949.0	2445.0
57.5°	7446.6	7297.8	6857.4	6255.6	5734.2	5230.8	4621.2	4047.0	3523.2	2999.4	2458.2
60°	7561.8	7542.0	7169.4	6513.0	5931.0	5379.6	4774.8	4173.6	3587.4	3022.2	2439.6
62.5°	7537.8	7679.4	7407.0	6689.4	6056.4	5472.6	4873.2	4228.2	3571.2	2967.0	2357.4
63°	7515.6	7685.4	7440.6	6706.8	6066.6	5481.6	4882.8	4221.6	3556.2	2942.4	2329.2
65°	7353.0	7614.6	7449.0	6675.6	6019.8	5455.8	4839.6	4117.8	3406.8	2787.6	2169.6
67.5°	6954.6	7216.8	7125.0	6331.8	5716.8	5178.6	4537.8	3764.4	3040.8	2458.8	1873.8
70°	6132.0	6366.6	6256.8	5559.0	4987.8	4606.2	3997.2	3130.8	2477.4	1976.4	1426.2
72.5°	4850.4	5015.4	5039.4	4485.0	4047.6	3818.4	3220.2	2361.6	1809.6	1376.4	925.8
75°	3591.6	3553.2	3561.0	3251.4	3073.2	2976.6	2407.2	1620.0	1219.2	841.2	549.0
77.5°	3018.6	2742.6	2507.4	2421.6	2214.0	2154.0	1587.6	994.2	711.6	503.4	312.6
80°	2454.6	2036.4	1694.4	1542.6	1461.6	1473.6	878.4	529.8	372.6	274.2	195.6
82.5°	1678.2	1360.2	1072.8	931.8	917.4	931.2	456.6	259.8	196.8	157.8	123.0
85°	992.4	934.2	834.0	740.4	708.0	668.4	339.6	186.0	101.4	84.0	69.0
87.5°	429.0	526.8	539.4	537.0	499.8	401.4	124.8	48.0	42.6	21.6	17.4
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°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	996.6	997.2	996.0	997.2	1001.4	1001.4	1000.8	1002.0	1002.6	1006.2	1005.0
5°	1026.6	1027.2	1027.8	1032.0	1035.0	1038.6	1037.4	1038.6	1041.0	1041.6	1042.8
7.5°	1054.2	1057.8	1062.6	1064.4	1069.8	1071.0	1076.4	1077.0	1078.2	1075.8	1073.4
10°	1073.4	1077.0	1083.0	1086.0	1095.6	1096.8	1101.0	1102.2	1104.6	1102.8	1101.0
12.5°	1083.0	1086.0	1092.6	1098.6	1111.8	1116.0	1123.2	1127.4	1130.4	1128.6	1122.6
15°	1102.8	1102.2	1105.8	1110.6	1122.6	1130.4	1140.6	1146.0	1149.6	1146.6	1138.8
17.5°	1148.4	1140.0	1140.0	1137.0	1146.0	1147.8	1152.0	1155.0	1153.8	1144.8	1132.2
20°	1211.4	1198.8	1191.0	1183.8	1180.8	1165.8	1158.0	1147.2	1137.6	1121.4	1107.0
22.5°	1293.0	1284.0	1266.0	1249.8	1227.0	1196.4	1163.4	1135.2	1114.2	1092.0	1067.4
25°	1416.6	1396.2	1370.4	1332.0	1302.6	1248.6	1193.4	1140.0	1095.0	1060.2	1018.8
27.5°	1533.0	1489.8	1441.2	1381.2	1327.2	1255.2	1185.0	1123.2	1064.4	1008.6	961.2
30°	1630.2	1555.2	1476.0	1392.0	1315.2	1228.2	1146.6	1076.4	1009.8	943.8	898.8
32.5°	1703.4	1595.4	1489.8	1382.4	1287.6	1185.6	1092.0	1017.0	941.4	871.8	819.6
35°	1769.4	1623.6	1485.6	1356.6	1244.4	1131.6	1030.8	946.8	864.0	789.6	729.6
37.5°	1816.8	1633.2	1467.6	1319.4	1189.2	1065.6	956.4	867.0	778.2	702.6	636.6
40°	1853.4	1628.4	1433.4	1262.4	1113.6	985.2	878.4	784.8	696.0	620.4	551.4
42.5°	1878.0	1610.4	1381.8	1197.6	1050.6	916.2	811.8	713.4	624.6	545.4	469.2
45°	1909.8	1603.2	1350.0	1149.0	993.6	858.0	746.4	650.4	558.0	475.2	402.6
47.5°	1939.8	1599.0	1324.2	1108.8	942.0	805.2	694.8	594.0	501.0	420.0	354.0
50°	1957.8	1592.4	1297.2	1060.2	884.4	751.2	645.6	543.6	450.0	372.6	313.8
52.5°	1963.2	1579.2	1261.8	1005.0	834.6	705.0	595.2	493.2	403.2	333.6	279.0
55°	1959.0	1553.4	1213.8	960.0	783.6	654.0	544.2	445.2	363.6	298.2	254.4
57.5°	1938.6	1501.8	1152.0	903.0	725.4	589.8	481.8	391.2	318.6	266.4	232.8
60°	1893.0	1427.4	1076.4	823.2	642.0	513.6	411.6	333.6	272.4	234.6	212.4
62.5°	1793.4	1320.0	966.6	710.4	530.4	412.2	323.4	265.8	224.4	204.6	191.4
63°	1764.0	1282.8	934.2	680.4	511.2	389.4	303.6	251.4	214.2	198.0	187.2
65°	1609.2	1111.2	789.6	547.2	396.0	295.2	231.6	197.4	177.6	171.6	168.6
67.5°	1318.8	864.6	555.6	367.2	265.8	204.0	171.0	157.8	150.6	150.0	151.8
70°	931.8	573.6	343.8	235.2	183.0	154.2	141.6	135.6	132.0	133.2	136.8
72.5°	606.0	336.6	217.2	172.2	148.8	135.6	126.6	124.8	123.6	122.4	123.6
75°	320.4	210.6	164.4	144.0	130.2	119.4	113.4	111.0	111.6	111.6	111.6
77.5°	198.6	160.2	140.4	127.2	116.4	105.6	99.6	97.8	98.4	99.6	100.2
80°	152.4	139.8	123.6	114.0	98.4	89.4	86.4	85.8	87.0	87.0	88.8
82.5°	111.6	108.0	102.0	90.0	78.0	72.0	71.4	73.8	71.4	70.8	72.0
85°	65.4	61.2	66.6	57.0	52.2	48.6	51.0	55.8	58.2	55.2	54.0
87.5°	21.0	14.4	21.0	23.4	21.0	18.0	22.8	27.0	27.6	26.4	30.0
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: P145740

CATALOG NUMBER: LDRL-SLL-E03-E

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	1004.4	1008.6	1004.4	1006.2	1005.6	1004.4	1006.2	1003.8	1002.6	1006.2	1005.6
5°	1042.2	1042.8	1037.4	1038.0	1037.4	1032.6	1032.6	1030.2	1027.2	1027.8	1026.6
7.5°	1072.8	1071.6	1067.4	1065.6	1060.2	1056.6	1054.2	1050.6	1048.2	1045.8	1044.6
10°	1096.2	1093.2	1090.2	1084.8	1079.4	1076.4	1069.8	1064.4	1062.6	1059.0	1056.6
12.5°	1116.6	1111.2	1106.4	1099.8	1093.2	1088.4	1080.6	1076.4	1073.4	1068.6	1065.0
15°	1128.0	1117.8	1108.8	1098.6	1091.4	1084.2	1075.2	1073.4	1069.2	1064.4	1057.8
17.5°	1114.2	1099.8	1083.0	1072.2	1061.4	1050.6	1041.6	1041.6	1039.8	1034.4	1023.0
20°	1086.0	1064.4	1044.6	1027.2	1016.4	1000.8	995.4	987.0	981.0	971.4	957.0
22.5°	1039.8	1017.0	991.2	973.8	955.2	937.8	927.0	913.8	909.0	893.4	874.2
25°	988.2	955.2	927.6	904.8	879.0	858.6	843.6	825.6	813.6	798.6	774.6
27.5°	927.0	892.8	861.6	836.4	809.4	781.2	753.6	732.6	711.0	693.6	679.8
30°	861.0	825.6	787.2	757.8	726.6	691.2	668.4	640.2	623.4	604.2	586.2
32.5°	774.6	743.4	698.4	664.2	625.8	598.2	579.6	552.6	532.8	516.6	506.4
35°	679.8	633.0	588.0	562.2	535.8	513.6	487.8	466.8	453.6	436.8	427.8
37.5°	576.6	522.0	483.6	460.8	433.8	423.0	406.8	394.2	382.2	370.8	363.6
40°	484.2	433.8	399.0	379.8	361.8	349.8	339.6	334.2	326.4	317.4	312.0
42.5°	407.4	367.2	333.0	315.0	301.2	300.0	293.4	289.2	286.2	280.8	272.4
45°	347.4	310.8	281.4	267.0	261.0	261.6	261.6	258.0	258.0	256.2	250.8
47.5°	307.2	274.2	252.6	243.0	240.6	241.2	239.4	238.2	238.8	238.2	235.2
50°	276.0	247.8	229.8	226.2	225.6	225.0	222.6	220.8	220.2	221.4	220.8
52.5°	244.2	220.8	210.6	209.4	210.0	210.0	209.4	208.8	210.0	211.2	209.4
55°	226.2	209.4	202.8	202.8	202.8	202.8	202.2	201.6	203.4	205.2	202.2
57.5°	209.4	197.4	195.0	195.0	195.0	193.8	193.8	194.4	196.8	200.4	196.8
60°	196.8	190.8	190.8	191.4	190.8	188.4	186.6	186.6	189.6	194.4	191.4
62.5°	184.8	181.8	183.0	182.4	181.2	178.2	175.8	175.8	179.4	184.2	185.4
63°	181.8	179.4	180.6	180.0	178.8	176.4	174.0	174.0	177.0	181.8	183.6
65°	168.6	169.2	169.8	170.4	169.8	169.2	166.2	165.0	167.4	171.0	173.4
67.5°	153.0	154.2	155.4	158.4	157.2	157.2	155.4	154.2	154.8	156.6	158.4
70°	138.6	139.8	141.6	142.8	143.4	144.0	142.8	141.0	141.6	142.2	143.4
72.5°	124.8	126.0	127.2	129.6	129.6	129.6	128.4	127.2	127.8	129.0	130.2
75°	112.2	112.8	114.0	115.8	116.4	115.2	115.2	114.0	114.6	116.4	117.6
77.5°	99.6	98.4	99.0	100.2	102.0	102.0	102.6	102.0	103.2	104.4	105.6
80°	85.2	84.0	82.8	83.4	85.8	88.8	91.8	91.8	93.6	94.2	96.0
82.5°	67.8	66.6	66.0	67.8	67.2	71.4	78.0	81.6	84.0	86.4	87.6
85°	52.8	49.8	51.0	51.0	49.8	56.4	62.4	67.2	67.8	71.4	72.0
87.5°	31.2	30.0	28.8	27.6	31.8	38.4	43.8	45.6	46.8	48.6	50.4
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

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	1000.8	1005.6	1004.4	1003.8	1004.4	1003.8	1002.0	1002.6	1001.4	1002.0	1000.8
5°	1020.0	1022.4	1020.6	1017.6	1017.6	1013.4	1010.4	1008.0	1005.0	1003.8	1001.4
7.5°	1038.6	1036.8	1034.4	1029.0	1026.0	1020.6	1016.4	1011.6	1008.6	1005.0	1000.8
10°	1050.0	1046.4	1041.6	1035.0	1026.6	1021.8	1015.8	1008.6	1005.0	1003.2	999.0
12.5°	1055.4	1045.8	1038.0	1026.0	1014.0	1005.0	998.4	991.2	989.4	987.0	984.0
15°	1042.8	1029.0	1009.2	993.0	977.4	964.8	959.4	951.6	949.8	949.2	948.6
17.5°	1000.2	979.2	960.0	938.4	924.6	913.2	908.4	906.6	903.6	902.4	903.0
20°	931.8	913.8	894.6	887.4	871.2	868.2	861.0	856.2	850.8	849.0	846.0
22.5°	852.0	829.8	817.8	812.4	805.8	790.2	786.6	781.8	774.6	769.2	768.0
25°	759.0	741.0	740.4	727.8	722.4	714.0	704.4	698.4	694.2	687.6	682.8
27.5°	664.2	657.6	646.2	636.6	633.0	628.2	613.8	610.8	606.0	600.6	595.2
30°	576.0	571.2	560.4	551.4	546.0	536.4	522.6	523.8	514.2	507.0	502.2
32.5°	490.2	486.6	476.4	474.0	456.6	451.8	437.4	426.6	417.0	409.8	403.8
35°	412.8	403.2	403.8	393.0	383.4	369.0	354.0	340.2	332.4	328.8	323.4
37.5°	357.0	348.0	339.0	327.0	316.2	306.0	297.0	292.8	288.0	289.2	289.8
40°	306.6	300.0	293.4	285.0	278.4	274.2	271.8	271.8	272.4	275.4	277.8
42.5°	270.6	265.2	261.6	258.6	259.8	259.8	261.6	264.6	267.6	271.8	274.2
45°	246.6	243.6	242.4	243.6	247.2	250.2	254.4	259.2	264.0	268.2	270.0
47.5°	232.2	230.4	230.4	233.4	238.8	243.6	250.2	255.0	260.4	264.0	265.2
50°	216.6	216.0	216.0	218.4	223.2	229.2	235.8	240.6	245.4	248.4	249.6
52.5°	207.6	205.8	205.2	208.2	212.4	218.4	225.0	229.8	233.4	235.8	236.4
55°	199.8	198.0	196.8	200.4	205.2	210.6	218.4	223.8	227.4	230.4	232.8
57.5°	193.2	191.4	190.2	194.4	199.2	205.8	212.4	218.4	223.2	226.8	229.2
60°	187.8	185.4	184.2	189.0	193.8	200.4	207.0	213.6	220.2	224.4	225.6
62.5°	181.2	179.4	177.6	180.6	183.0	187.8	193.8	200.4	206.4	210.6	210.6
63°	179.4	178.8	176.4	178.8	181.2	185.4	191.4	197.4	203.4	208.2	207.6
65°	171.6	171.6	170.4	172.8	175.2	179.4	184.2	190.8	196.2	199.8	200.4
67.5°	159.0	159.6	160.8	163.2	168.0	172.2	177.6	183.6	188.4	190.8	192.0
70°	144.6	145.8	148.2	151.8	156.0	159.6	163.2	169.2	173.4	175.8	177.0
72.5°	130.8	133.8	135.6	138.6	141.0	144.6	147.6	153.6	157.2	159.0	162.0
75°	118.2	120.6	121.8	123.6	126.0	127.2	130.8	133.2	138.0	140.4	144.0
77.5°	106.2	107.4	109.2	112.2	112.8	114.6	115.8	119.4	121.8	124.2	127.2
80°	95.4	96.6	99.0	100.8	101.4	102.6	103.2	102.6	102.0	100.2	102.6
82.5°	85.8	87.0	90.0	91.8	93.6	93.6	93.0	86.4	83.4	84.6	86.4
85°	70.8	72.0	75.0	78.6	79.2	78.6	79.2	72.6	68.4	66.6	68.4
87.5°	44.4	43.2	53.4	58.2	54.6	55.8	56.4	52.8	49.2	42.0	43.8
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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 CATALOG NUMBER: LDRL-SLL-E03-E

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	0°
2.5°	1002.0	997.8	998.4	999.6	999.6	1001.4	999.0	996.0	997.8	994.8	994.2	2.5°
5°	1001.4	996.0	996.0	997.2	996.0	997.2	995.4	992.4	994.2	990.6	990.0	5°
7.5°	999.0	996.0	997.2	998.4	996.6	997.2	996.6	992.4	993.0	991.2	987.0	7.5°
10°	997.8	996.0	998.4	1002.0	1002.0	1002.6	1000.8	996.0	993.0	991.2	987.6	10°
12.5°	985.2	987.6	992.4	1000.8	1003.8	1008.6	1011.0	1008.6	1009.8	1007.4	1006.2	12.5°
15°	949.2	955.2	963.0	975.6	984.6	995.4	1008.6	1014.6	1026.0	1035.0	1041.0	15°
17.5°	906.0	910.2	918.6	933.0	944.4	966.0	984.0	1004.4	1026.6	1050.6	1071.6	17.5°
20°	852.6	849.6	862.8	878.4	898.2	922.2	948.6	979.2	1015.8	1054.2	1090.8	20°
22.5°	774.0	774.0	787.8	806.4	830.4	858.0	894.6	927.6	975.6	1031.4	1085.4	22.5°
25°	684.0	685.8	695.4	716.4	733.2	772.8	807.0	849.6	907.2	968.4	1040.4	25°
27.5°	588.0	600.0	597.6	619.8	642.0	681.0	727.8	771.0	835.2	900.6	982.8	27.5°
30°	501.0	499.2	498.6	525.0	547.2	582.6	621.0	675.6	740.4	824.4	919.2	30°
32.5°	393.0	399.6	404.4	420.0	444.0	477.0	518.4	575.4	653.4	738.0	844.8	32.5°
35°	324.6	326.4	333.0	342.0	363.0	390.6	433.8	484.2	552.6	640.2	753.6	35°
37.5°	291.0	292.8	300.0	308.4	323.4	343.8	373.2	412.2	475.2	556.8	662.4	37.5°
40°	280.2	282.0	286.2	294.0	307.8	325.2	348.6	378.6	424.2	487.8	580.2	40°
42.5°	275.4	275.4	276.0	282.0	295.8	316.2	341.4	368.4	402.0	450.0	525.0	42.5°
45°	270.0	270.0	269.4	273.6	284.4	307.8	338.4	371.4	408.0	449.4	508.2	45°
47.5°	265.2	264.0	262.8	264.6	273.6	297.6	333.0	373.2	420.0	471.6	531.0	47.5°
50°	248.4	248.4	247.8	248.4	256.8	282.0	322.8	371.4	430.8	497.4	569.4	50°
52.5°	236.4	237.0	237.6	237.6	244.2	270.0	315.0	372.0	442.8	522.6	613.8	52.5°
55°	233.4	234.6	234.6	233.4	238.8	262.2	307.8	370.2	451.2	550.8	661.2	55°
57.5°	229.8	230.4	231.0	229.8	233.4	253.8	297.6	361.8	448.8	561.6	696.6	57.5°
60°	225.0	222.6	222.0	220.2	222.6	238.8	279.6	343.8	434.4	556.8	708.6	60°
62.5°	211.8	210.0	208.2	206.4	208.2	220.2	259.8	321.6	410.4	537.6	699.0	62.5°
63°	208.8	207.6	205.8	204.0	204.0	217.2	253.2	316.2	404.4	532.2	695.4	63°
65°	200.4	199.8	198.6	196.8	196.2	206.4	238.2	291.6	376.2	508.2	672.6	65°
67.5°	190.8	190.8	190.2	187.8	184.8	190.8	213.0	255.0	327.0	446.4	616.2	67.5°
70°	177.0	177.0	176.4	175.2	171.6	175.8	190.2	217.8	269.4	364.8	516.6	70°
72.5°	163.2	163.2	165.0	164.4	165.0	165.6	172.8	187.8	219.0	283.8	390.6	72.5°
75°	145.2	148.2	148.8	150.0	150.6	150.0	153.6	162.6	180.6	217.8	285.0	75°
77.5°	130.2	134.4	133.8	132.6	132.0	132.6	132.0	136.2	149.4	172.8	211.2	77.5°
80°	107.4	111.6	111.6	111.0	109.8	111.0	109.8	114.0	124.8	145.2	168.0	80°
82.5°	88.2	91.2	93.0	94.2	93.0	97.8	97.8	96.6	105.0	123.0	141.6	82.5°
85°	70.8	73.8	75.6	78.0	79.2	78.0	77.4	76.2	81.0	95.4	108.0	85°
87.5°	45.0	47.4	47.4	48.0	48.0	49.8	46.2	42.0	38.4	54.6	57.0	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: P145740

NUMBER: LDRL-SLL-E03-E

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
992.4	992.4	992.4	992.4	992.4	992.4	992.4
992.4	992.4	993.0	991.2	993.0	993.0	991.2
988.2	987.0	987.0	986.4	987.6	987.0	986.4
984.6	984.6	982.2	980.4	979.8	982.2	981.0
983.4	982.2	981.6	980.4	981.0	982.8	984.0
1005.0	1000.8	1002.0	1001.4	1002.0	1003.8	1007.4
1044.6	1044.6	1047.6	1041.0	1044.0	1047.0	1051.8
1089.0	1099.8	1105.2	1104.6	1105.8	1108.2	1113.6
1126.8	1161.0	1185.0	1191.0	1207.2	1210.8	1202.4
1143.6	1204.8	1258.8	1294.8	1335.0	1351.2	1356.0
1109.4	1197.6	1286.4	1369.2	1448.4	1494.0	1534.2
1074.0	1178.4	1296.6	1420.2	1549.2	1665.6	1752.6
1024.8	1162.8	1322.4	1489.2	1660.2	1822.2	1967.4
970.8	1137.6	1324.8	1527.6	1738.8	1940.4	2116.2
893.4	1078.8	1286.4	1521.6	1766.4	2019.0	2238.6
804.6	985.2	1218.0	1486.8	1764.6	2059.2	2322.6
709.8	894.6	1139.4	1427.4	1741.2	2071.8	2381.4
638.4	821.4	1061.4	1371.0	1706.4	2063.4	2409.6
601.8	758.4	997.8	1315.8	1667.4	2043.0	2421.6
609.0	741.6	960.0	1270.2	1632.6	2020.8	2418.6
649.2	766.8	959.4	1253.4	1610.4	2000.4	2410.2
709.8	823.8	994.2	1273.2	1622.4	1998.6	2409.6
778.2	903.6	1078.2	1326.6	1673.4	2031.0	2424.0
844.2	1000.8	1186.2	1446.0	1770.0	2112.0	2482.2
883.2	1089.6	1324.8	1614.6	1918.8	2254.2	2610.0
892.2	1143.0	1447.8	1780.2	2122.8	2460.0	2809.2
891.6	1148.4	1468.8	1814.4	2164.2	2507.4	2860.2
877.8	1159.2	1525.2	1927.2	2330.4	2710.8	3073.2
834.6	1140.0	1556.4	2032.2	2495.4	2935.2	3393.6
735.6	1052.4	1519.8	2066.4	2593.8	3084.0	3607.2
576.0	868.2	1312.2	1888.8	2460.6	2950.8	3612.6
405.0	613.8	1009.8	1551.0	2011.2	2493.6	3226.8
282.0	397.8	655.8	1043.4	1451.4	1819.2	2398.8
206.4	264.6	393.0	624.0	880.8	1137.0	1488.6
159.0	190.8	251.4	376.8	497.4	636.6	897.6
111.6	126.0	155.4	232.8	333.6	455.4	657.6
48.6	57.0	75.0	137.4	225.6	217.2	207.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)