

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: P145764

Luminaire Tested: **LDRL-SLL-F05-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145764
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-F05-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (35) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10154.2 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

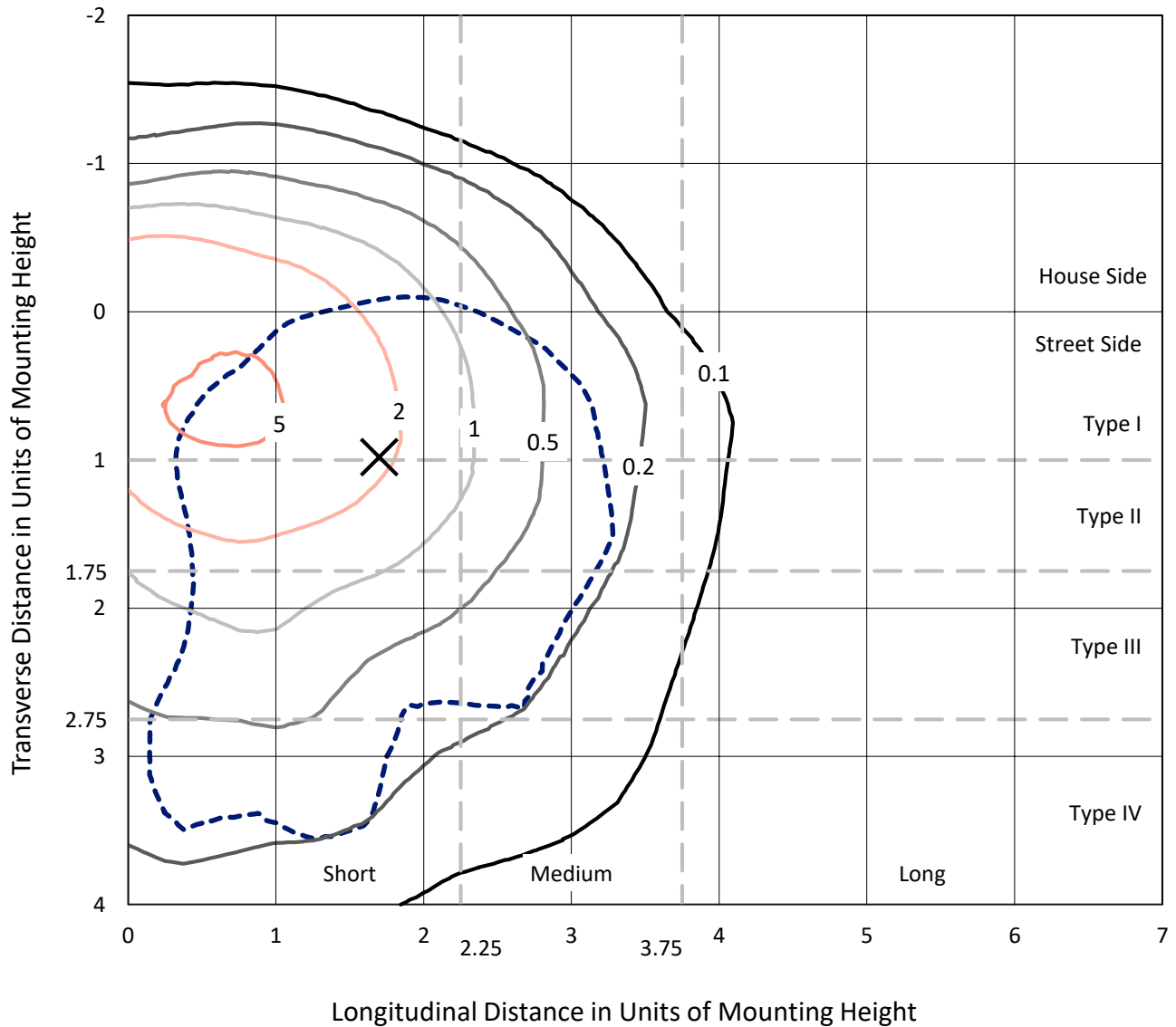
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

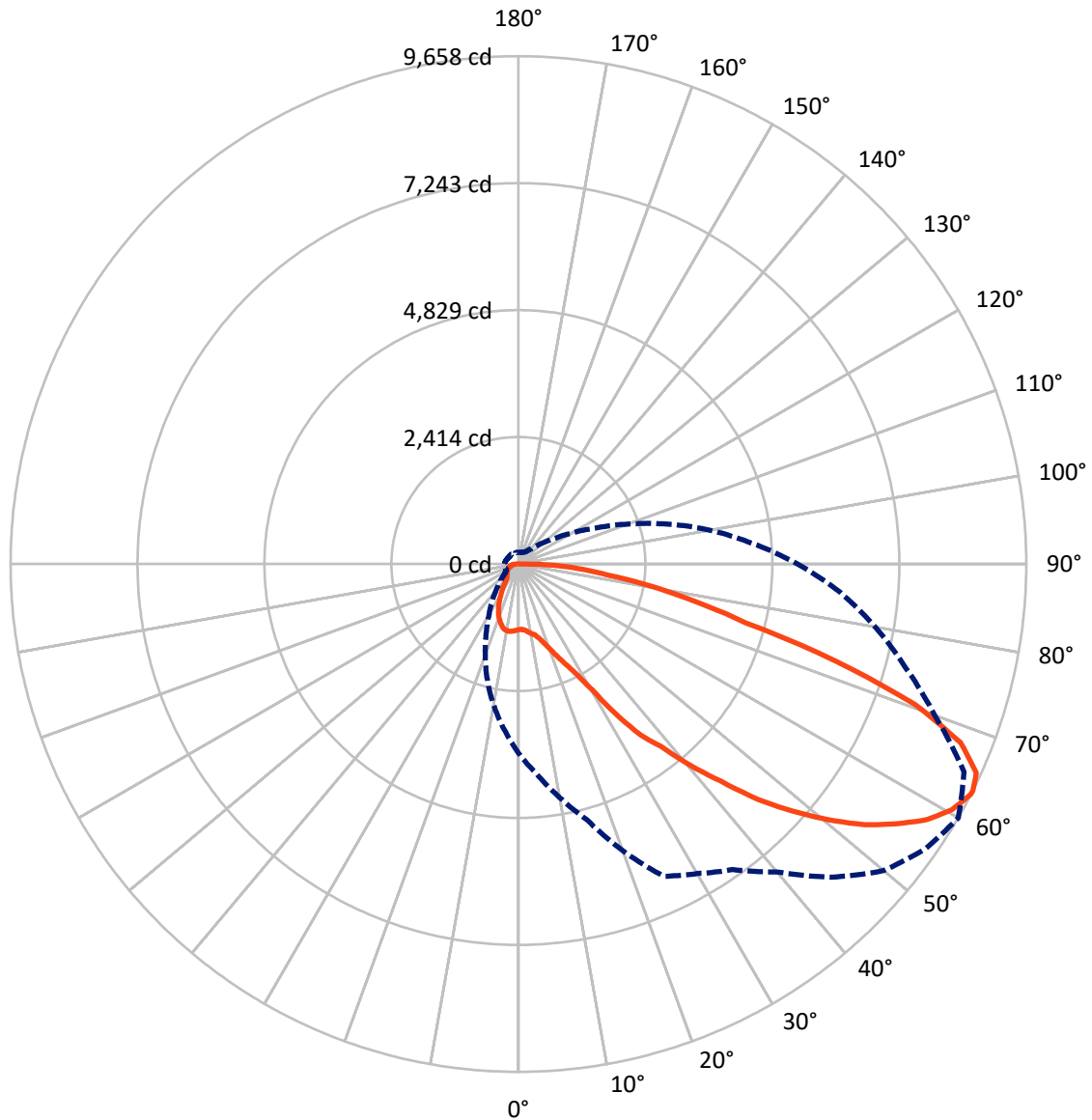
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 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	2125.6	0.0	2125.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8028.6	0.0	8028.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	10154.2	0.0	10154.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.5	1.2
10°-20°	382.3	3.8
20°-30°	676.0	6.7
30°-40°	1067.2	10.5
40°-50°	1569.4	15.5
50°-60°	2067.3	20.4
60°-70°	2304.2	22.7
70°-80°	1513.9	14.9
80°-90°	451.5	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°	10154.2	100.0
0°-180°	10154.2	100.0

Coefficient of Utilization



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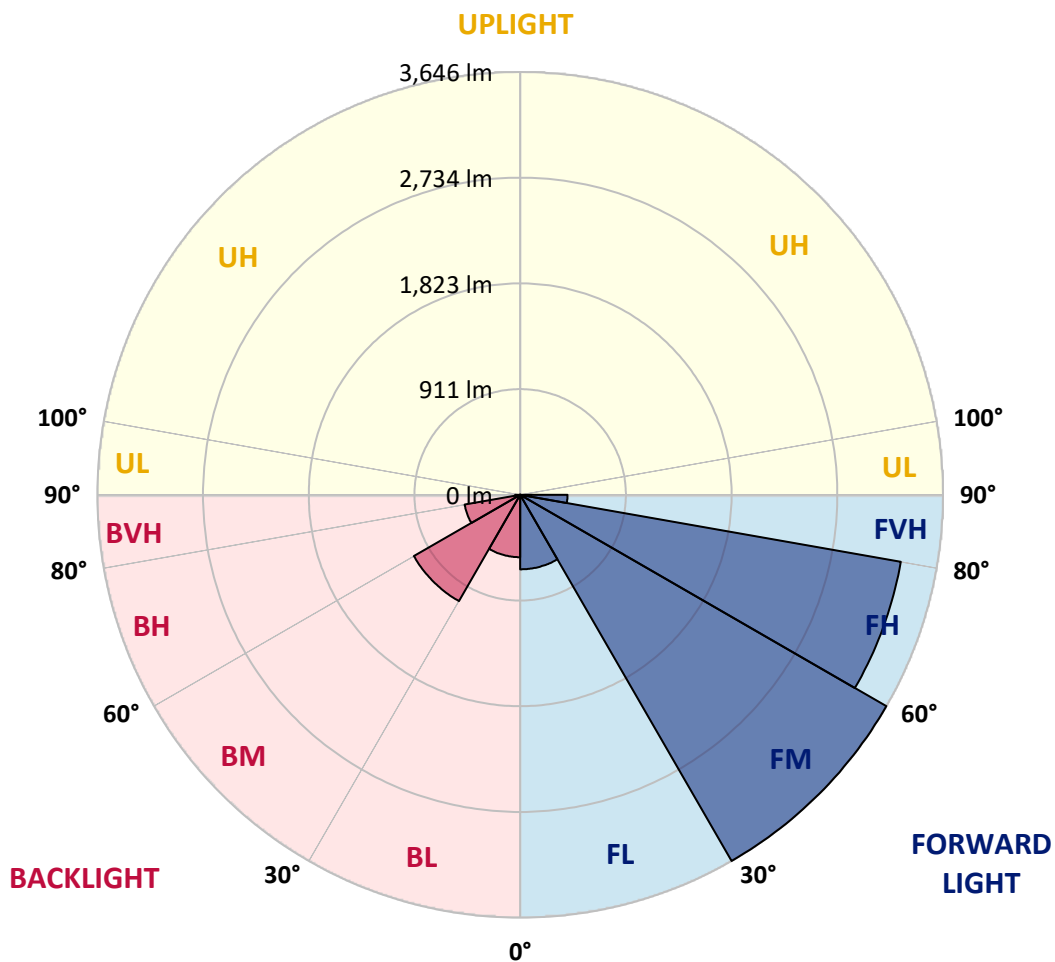
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	642.7	6.3			
FM	(30°-60°)	3645.6	35.9			
FH	(60°-80°)	3332.3	32.8			G2/5000
FVH	(80°-90°)	408.0	4.0			G3/500
BL	(0°-30°)	538.1	5.3	B2/1000		
BM	(30°-60°)	1058.3	10.4	B2/2500		
BH	(60°-80°)	485.8	4.8	B1/500		G1/500
BVH	(80°-90°)	43.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1245.6	1246.4	1244.1	1243.3	1241.8	1242.6	1242.6	1241.1	1241.1	1241.8	1239.6
5°	1239.6	1241.1	1240.3	1241.8	1243.3	1245.6	1247.9	1250.1	1252.4	1255.4	1256.2
7.5°	1232.8	1237.3	1238.1	1242.6	1247.9	1253.9	1261.4	1269.7	1281.0	1284.1	1290.8
10°	1236.5	1244.8	1249.4	1258.4	1266.7	1278.0	1291.6	1299.9	1314.2	1319.5	1329.3
12.5°	1266.0	1272.0	1278.0	1288.6	1300.6	1315.0	1330.0	1342.9	1357.9	1363.2	1367.0
15°	1321.8	1327.8	1334.6	1345.1	1357.9	1375.3	1397.1	1413.0	1431.1	1444.7	1454.5
17.5°	1399.4	1399.4	1415.2	1418.3	1443.1	1469.5	1496.7	1527.6	1546.4	1557.8	1575.8
20°	1511.0	1511.0	1532.1	1541.9	1563.0	1597.0	1633.9	1667.8	1695.0	1717.6	1734.2
22.5°	1704.0	1695.7	1713.8	1711.6	1737.2	1787.7	1823.9	1842.8	1879.0	1892.5	1914.4
25°	1928.0	1957.4	1977.0	1977.0	1987.5	2039.6	2069.7	2084.0	2117.2	2107.4	2130.0
27.5°	2202.4	2281.6	2354.7	2384.9	2370.6	2427.9	2438.4	2452.0	2448.2	2424.8	2418.1
30°	2472.3	2611.8	2725.7	2795.1	2875.0	2985.8	2985.8	3003.9	2964.7	2899.9	2861.4
32.5°	2659.3	2838.8	3013.0	3157.0	3292.7	3462.3	3534.0	3633.5	3650.1	3675.0	3589.0
35°	2813.1	3065.0	3252.0	3468.4	3634.2	3806.2	3996.9	4169.6	4284.2	4265.3	4231.4
37.5°	2918.7	3242.2	3503.1	3757.1	4009.7	4206.5	4387.5	4612.9	4832.3	4876.1	4784.1
40°	2992.6	3367.3	3726.2	4038.4	4355.8	4651.4	4871.6	5113.6	5457.4	5602.9	5527.5
42.5°	3028.0	3465.4	3865.7	4263.1	4665.0	5038.2	5314.1	5645.9	6053.8	6302.6	6219.7
45°	3043.1	3525.7	3978.8	4431.2	4913.8	5374.5	5730.4	6106.6	6565.8	6965.4	6980.5
47.5°	3039.3	3558.1	4056.5	4551.1	5109.1	5645.1	6122.4	6549.2	7069.4	7489.4	7645.5
50°	3028.8	3569.4	4103.2	4623.5	5232.0	5843.4	6381.0	6888.5	7469.8	8001.4	8238.9
52.5°	3028.0	3571.7	4126.6	4663.4	5304.3	5964.8	6543.2	7142.6	7779.7	8335.4	8705.6
55°	3046.1	3585.2	4152.2	4691.3	5343.6	6033.5	6634.4	7301.7	7914.7	8545.8	9023.8
57.5°	3119.3	3648.6	4213.3	4738.8	5387.3	6087.7	6705.3	7347.7	7954.6	8633.2	9208.5
60°	3279.9	3767.0	4319.6	4826.3	5501.1	6230.2	6772.4	7282.8	7879.2	8608.3	9234.9
62.5°	3530.2	3957.0	4468.2	4987.7	5732.6	6500.9	6800.3	7134.3	7693.0	8465.1	9121.1
63°	3594.3	4007.5	4507.4	5032.2	5799.7	6552.2	6798.0	7095.1	7641.7	8422.9	9069.8
65°	3862.0	4241.2	4689.8	5244.8	6105.1	6715.1	6715.8	6864.4	7380.1	8189.9	8859.4
67.5°	4264.6	4626.5	4973.3	5525.3	6442.9	6796.5	6472.3	6359.9	6816.1	7696.8	8325.6
70°	4533.0	4980.1	5174.7	5599.2	6488.9	6697.7	6087.0	5712.3	6090.8	6826.7	7385.4
72.5°	4539.8	5049.5	5106.0	5284.0	6058.3	6225.7	5423.5	4916.0	5143.7	5761.3	6055.3
75°	4055.0	4695.9	4579.8	4514.2	4933.4	5005.0	4386.7	4175.6	4467.4	4832.3	4685.3
77.5°	3014.5	3866.5	3630.5	3351.5	3503.8	3514.4	3534.0	3932.1	4290.2	4439.5	4225.4
80°	1870.7	2840.3	2659.3	2199.4	2258.2	2431.6	2951.9	3655.4	4047.4	4154.5	3726.2
82.5°	1128.0	2089.3	1992.8	1678.4	1752.3	2184.3	2759.6	2954.1	3086.1	3076.3	2633.7
85°	826.4	1419.0	1550.2	1573.6	1836.0	2121.0	2108.9	1964.9	1884.2	1658.0	1415.2
87.5°	260.1	732.1	868.6	1012.6	1109.1	1049.6	1032.2	892.0	638.6	539.9	593.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1239.6	1242.6	1244.1	1243.3	1244.1	1244.1	1248.6	1247.1	1248.6	1247.9	1252.4
5°	1258.4	1262.9	1266.7	1266.7	1267.5	1269.0	1275.0	1275.0	1278.0	1284.1	1287.1
7.5°	1295.4	1301.4	1302.1	1303.7	1308.2	1305.9	1309.7	1311.2	1313.5	1316.5	1320.2
10°	1333.8	1342.1	1342.1	1341.4	1342.1	1336.1	1338.3	1333.8	1334.6	1339.1	1343.6
12.5°	1376.8	1381.3	1378.3	1376.0	1376.0	1364.7	1363.2	1357.2	1354.2	1354.9	1356.4
15°	1462.7	1459.0	1458.2	1454.5	1440.9	1432.6	1426.6	1407.7	1397.9	1392.6	1383.6
17.5°	1577.4	1579.6	1575.8	1572.1	1552.5	1524.6	1512.5	1492.2	1478.6	1465.0	1448.4
20°	1744.7	1729.7	1728.2	1716.1	1688.9	1649.7	1620.3	1587.2	1568.3	1548.7	1531.4
22.5°	1929.5	1913.6	1903.1	1879.7	1839.7	1790.0	1741.0	1698.7	1670.1	1655.8	1643.7
25°	2134.6	2125.5	2108.2	2048.6	2016.9	1959.6	1906.1	1864.6	1832.2	1820.1	1799.0
27.5°	2380.4	2387.1	2354.7	2298.9	2259.0	2178.3	2132.3	2060.7	2033.5	1989.8	1962.6
30°	2828.2	2784.5	2729.5	2644.3	2563.6	2455.0	2378.8	2304.2	2264.2	2205.4	2133.0
32.5°	3560.4	3393.7	3245.9	3065.0	2893.8	2755.1	2645.0	2550.8	2489.7	2392.4	2269.5
35°	4150.7	3990.1	3745.8	3482.7	3258.0	3080.1	2941.3	2852.4	2730.2	2574.9	2396.9
37.5°	4583.5	4398.8	4170.3	3969.0	3724.0	3525.7	3337.9	3153.2	2981.3	2746.0	2519.1
40°	5286.2	5035.9	4659.7	4422.2	4221.6	3953.2	3777.5	3528.7	3267.1	2963.9	2635.2
42.5°	5981.4	5649.7	5308.9	5035.9	4750.9	4459.9	4218.6	3884.6	3537.0	3144.2	2739.3
45°	6789.0	6382.6	5936.9	5555.4	5262.9	4920.6	4611.4	4201.3	3757.9	3291.9	2829.7
47.5°	7425.3	7022.7	6519.8	6135.2	5740.9	5354.9	4953.7	4447.8	3922.3	3412.6	2914.2
50°	8035.3	7647.0	7112.4	6640.4	6187.3	5721.3	5236.5	4622.7	4051.2	3506.8	2981.3
52.5°	8582.7	8237.4	7659.8	7095.8	6589.1	6052.3	5451.4	4786.4	4174.9	3604.1	3034.1
55°	9046.4	8723.0	8205.0	7503.0	6927.7	6333.5	5654.2	4935.6	4305.3	3705.9	3072.5
57.5°	9357.8	9170.8	8617.4	7861.1	7205.9	6573.3	5807.3	5085.7	4427.4	3769.2	3089.1
60°	9502.6	9477.7	9009.5	8184.6	7453.2	6760.3	6000.3	5244.8	4508.1	3797.9	3065.7
62.5°	9472.4	9650.4	9308.0	8406.3	7610.8	6877.2	6123.9	5313.4	4487.8	3728.5	2962.4
63°	9444.5	9657.9	9350.3	8428.1	7623.6	6888.5	6136.0	5305.1	4468.9	3697.6	2927.0
65°	9240.2	9568.9	9360.8	8388.9	7564.8	6856.1	6081.7	5174.7	4281.2	3503.1	2726.4
67.5°	8739.5	9069.0	8953.7	7956.9	7184.0	6507.7	5702.5	4730.6	3821.2	3089.9	2354.7
70°	7705.8	8000.6	7862.6	6985.7	6267.9	5788.4	5023.1	3934.3	3113.2	2483.7	1792.2
72.5°	6095.3	6302.6	6332.8	5636.1	5086.4	4798.4	4046.7	2967.7	2274.0	1729.7	1163.4
75°	4513.4	4465.1	4475.0	4085.9	3862.0	3740.6	3025.0	2035.8	1532.1	1057.1	689.9
77.5°	3793.3	3446.5	3150.9	3043.1	2782.2	2706.8	1995.1	1249.4	894.2	632.6	392.8
80°	3084.6	2559.1	2129.3	1938.5	1836.7	1851.8	1103.8	665.8	468.2	344.6	245.8
82.5°	2108.9	1709.3	1348.1	1171.0	1152.9	1170.2	573.8	326.5	247.3	198.3	154.6
85°	1247.1	1174.0	1048.1	930.4	889.7	839.9	426.8	233.7	127.4	105.6	86.7
87.5°	539.1	662.0	677.8	674.8	628.1	504.4	156.8	60.3	53.5	27.1	21.9
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°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1252.4	1253.1	1251.6	1253.1	1258.4	1258.4	1257.7	1259.2	1259.9	1264.4	1262.9
5°	1290.1	1290.8	1291.6	1296.9	1300.6	1305.2	1303.7	1305.2	1308.2	1308.9	1310.4
7.5°	1324.8	1329.3	1335.3	1337.6	1344.4	1345.9	1352.7	1353.4	1354.9	1351.9	1348.9
10°	1348.9	1353.4	1361.0	1364.7	1376.8	1378.3	1383.6	1385.1	1388.1	1385.8	1383.6
12.5°	1361.0	1364.7	1373.0	1380.6	1397.1	1402.4	1411.5	1416.8	1420.5	1418.3	1410.7
15°	1385.8	1385.1	1389.6	1395.6	1410.7	1420.5	1433.3	1440.1	1444.7	1440.9	1431.1
17.5°	1443.1	1432.6	1432.6	1428.8	1440.1	1442.4	1447.7	1451.4	1449.9	1438.6	1422.8
20°	1522.3	1506.5	1496.7	1487.6	1483.9	1465.0	1455.2	1441.6	1429.6	1409.2	1391.1
22.5°	1624.9	1613.5	1590.9	1570.6	1541.9	1503.5	1462.0	1426.6	1400.2	1372.3	1341.4
25°	1780.2	1754.5	1722.1	1673.9	1636.9	1569.1	1499.7	1432.6	1376.0	1332.3	1280.3
27.5°	1926.5	1872.2	1811.1	1735.7	1667.8	1577.4	1489.1	1411.5	1337.6	1267.5	1207.9
30°	2048.6	1954.4	1854.8	1749.3	1652.8	1543.4	1440.9	1352.7	1269.0	1186.0	1129.5
32.5°	2140.6	2004.9	1872.2	1737.2	1618.1	1489.9	1372.3	1278.0	1183.0	1095.6	1030.0
35°	2223.5	2040.3	1866.9	1704.8	1563.8	1422.0	1295.4	1189.8	1085.8	992.3	916.9
37.5°	2283.1	2052.4	1844.3	1658.0	1494.4	1339.1	1201.9	1089.5	977.9	882.9	800.0
40°	2329.1	2046.3	1801.3	1586.4	1399.4	1238.1	1103.8	986.2	874.6	779.6	692.9
42.5°	2360.0	2023.7	1736.4	1505.0	1320.2	1151.3	1020.2	896.5	784.9	685.4	589.6
45°	2400.0	2014.7	1696.5	1443.9	1248.6	1078.2	938.0	817.3	701.2	597.2	505.9
47.5°	2437.7	2009.4	1664.1	1393.4	1183.8	1011.9	873.1	746.5	629.6	527.8	444.9
50°	2460.3	2001.1	1630.1	1332.3	1111.4	944.0	811.3	683.1	565.5	468.2	394.3
52.5°	2467.1	1984.5	1585.6	1262.9	1048.8	885.9	748.0	619.8	506.7	419.2	350.6
55°	2461.8	1952.1	1525.3	1206.4	984.7	821.9	683.9	559.5	456.9	374.7	319.7
57.5°	2436.2	1887.2	1447.7	1134.8	911.6	741.2	605.5	491.6	400.4	334.8	292.5
60°	2378.8	1793.8	1352.7	1034.5	806.8	645.4	517.2	419.2	342.3	294.8	266.9
62.5°	2253.7	1658.8	1214.7	892.7	666.5	518.0	406.4	334.0	282.0	257.1	240.5
63°	2216.7	1612.0	1174.0	855.0	642.4	489.3	381.5	315.9	269.2	248.8	235.2
65°	2022.2	1396.4	992.3	687.6	497.6	371.0	291.0	248.1	223.2	215.6	211.9
67.5°	1657.3	1086.5	698.2	461.4	334.0	256.4	214.9	198.3	189.3	188.5	190.8
70°	1171.0	720.8	432.0	295.6	230.0	193.8	177.9	170.4	165.9	167.4	171.9
72.5°	761.5	423.0	272.9	216.4	187.0	170.4	159.1	156.8	155.3	153.8	155.3
75°	402.6	264.7	206.6	181.0	163.6	150.0	142.5	139.5	140.2	140.2	140.2
77.5°	249.6	201.3	176.4	159.8	146.3	132.7	125.2	122.9	123.7	125.2	125.9
80°	191.5	175.7	155.3	143.3	123.7	112.3	108.6	107.8	109.3	109.3	111.6
82.5°	140.2	135.7	128.2	113.1	98.0	90.5	89.7	92.7	89.7	89.0	90.5
85°	82.2	76.9	83.7	71.6	65.6	61.1	64.1	70.1	73.1	69.4	67.9
87.5°	26.4	18.1	26.4	29.4	26.4	22.6	28.7	33.9	34.7	33.2	37.7
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: P145764

CATALOG NUMBER: LDRL-SLL-F05-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1262.2	1267.5	1262.2	1264.4	1263.7	1262.2	1264.4	1261.4	1259.9	1264.4	1263.7
5°	1309.7	1310.4	1303.7	1304.4	1303.7	1297.6	1297.6	1294.6	1290.8	1291.6	1290.1
7.5°	1348.1	1346.6	1341.4	1339.1	1332.3	1327.8	1324.8	1320.2	1317.2	1314.2	1312.7
10°	1377.5	1373.8	1370.0	1363.2	1356.4	1352.7	1344.4	1337.6	1335.3	1330.8	1327.8
12.5°	1403.2	1396.4	1390.4	1382.1	1373.8	1367.7	1357.9	1352.7	1348.9	1342.9	1338.3
15°	1417.5	1404.7	1393.4	1380.6	1371.5	1362.5	1351.2	1348.9	1343.6	1337.6	1329.3
17.5°	1400.2	1382.1	1361.0	1347.4	1333.8	1320.2	1308.9	1308.9	1306.7	1299.9	1285.6
20°	1364.7	1337.6	1312.7	1290.8	1277.3	1257.7	1250.9	1240.3	1232.8	1220.7	1202.6
22.5°	1306.7	1278.0	1245.6	1223.7	1200.4	1178.5	1164.9	1148.3	1142.3	1122.7	1098.6
25°	1241.8	1200.4	1165.7	1137.0	1104.6	1079.0	1060.1	1037.5	1022.4	1003.6	973.4
27.5°	1164.9	1121.9	1082.7	1051.1	1017.1	981.7	947.0	920.6	893.5	871.6	854.3
30°	1082.0	1037.5	989.2	952.3	913.1	868.6	839.9	804.5	783.4	759.3	736.7
32.5°	973.4	934.2	877.6	834.7	786.4	751.7	728.4	694.4	669.5	649.2	636.4
35°	854.3	795.5	738.9	706.5	673.3	645.4	613.0	586.6	570.0	548.9	537.6
37.5°	724.6	656.0	607.7	579.1	545.1	531.6	511.2	495.4	480.3	466.0	456.9
40°	608.5	545.1	501.4	477.3	454.7	439.6	426.8	420.0	410.2	398.9	392.1
42.5°	512.0	461.4	418.5	395.8	378.5	377.0	368.7	363.4	359.7	352.9	342.3
45°	436.6	390.6	353.6	335.5	328.0	328.7	328.7	324.2	324.2	322.0	315.2
47.5°	386.0	344.6	317.4	305.4	302.4	303.1	300.8	299.3	300.1	299.3	295.6
50°	346.8	311.4	288.8	284.3	283.5	282.7	279.7	277.5	276.7	278.2	277.5
52.5°	306.9	277.5	264.7	263.1	263.9	263.9	263.1	262.4	263.9	265.4	263.1
55°	284.3	263.1	254.8	254.8	254.8	254.8	254.1	253.3	255.6	257.9	254.1
57.5°	263.1	248.1	245.0	245.0	245.0	243.5	243.5	244.3	247.3	251.8	247.3
60°	247.3	239.8	239.8	240.5	239.8	236.8	234.5	234.5	238.3	244.3	240.5
62.5°	232.2	228.5	230.0	229.2	227.7	223.9	220.9	220.9	225.4	231.5	233.0
63°	228.5	225.4	227.0	226.2	224.7	221.7	218.7	218.7	222.4	228.5	230.7
65°	211.9	212.6	213.4	214.1	213.4	212.6	208.9	207.3	210.4	214.9	217.9
67.5°	192.3	193.8	195.3	199.1	197.5	197.5	195.3	193.8	194.5	196.8	199.1
70°	174.2	175.7	177.9	179.5	180.2	181.0	179.5	177.2	177.9	178.7	180.2
72.5°	156.8	158.3	159.8	162.9	162.9	162.9	161.4	159.8	160.6	162.1	163.6
75°	141.0	141.8	143.3	145.5	146.3	144.8	144.8	143.3	144.0	146.3	147.8
77.5°	125.2	123.7	124.4	125.9	128.2	128.2	128.9	128.2	129.7	131.2	132.7
80°	107.1	105.6	104.1	104.8	107.8	111.6	115.4	115.4	117.6	118.4	120.6
82.5°	85.2	83.7	82.9	85.2	84.4	89.7	98.0	102.5	105.6	108.6	110.1
85°	66.4	62.6	64.1	64.1	62.6	70.9	78.4	84.4	85.2	89.7	90.5
87.5°	39.2	37.7	36.2	34.7	40.0	48.3	55.0	57.3	58.8	61.1	63.3
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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CATALOG NUMBER: LDRL-SLL-F05-E-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
2.5°	1257.7	1263.7	1262.2	1261.4	1262.2	1261.4	1259.2	1259.9	1258.4	1259.2	1257.7
5°	1281.8	1284.8	1282.5	1278.8	1278.8	1273.5	1269.7	1266.7	1262.9	1261.4	1258.4
7.5°	1305.2	1302.9	1299.9	1293.1	1289.3	1282.5	1277.3	1271.2	1267.5	1262.9	1257.7
10°	1319.5	1315.0	1308.9	1300.6	1290.1	1284.1	1276.5	1267.5	1262.9	1260.7	1255.4
12.5°	1326.3	1314.2	1304.4	1289.3	1274.2	1262.9	1254.6	1245.6	1243.3	1240.3	1236.5
15°	1310.4	1293.1	1268.2	1247.9	1228.3	1212.4	1205.6	1195.8	1193.6	1192.8	1192.1
17.5°	1256.9	1230.5	1206.4	1179.2	1161.9	1147.6	1141.5	1139.3	1135.5	1134.0	1134.8
20°	1171.0	1148.3	1124.2	1115.2	1094.8	1091.0	1082.0	1075.9	1069.2	1066.9	1063.1
22.5°	1070.7	1042.8	1027.7	1020.9	1012.6	993.0	988.5	982.5	973.4	966.6	965.1
25°	953.8	931.2	930.4	914.6	907.8	897.3	885.2	877.6	872.4	864.1	858.0
27.5°	834.7	826.4	812.1	800.0	795.5	789.4	771.3	767.6	761.5	754.7	748.0
30°	723.8	717.8	704.2	692.9	686.1	674.1	656.7	658.2	646.2	637.1	631.1
32.5°	616.0	611.5	598.7	595.7	573.8	567.8	549.7	536.1	524.0	515.0	507.4
35°	518.7	506.7	507.4	493.9	481.8	463.7	444.9	427.5	417.7	413.2	406.4
37.5°	448.6	437.3	426.0	410.9	397.4	384.5	373.2	367.9	361.9	363.4	364.2
40°	385.3	377.0	368.7	358.1	349.9	344.6	341.6	341.6	342.3	346.1	349.1
42.5°	340.1	333.3	328.7	325.0	326.5	326.5	328.7	332.5	336.3	341.6	344.6
45°	309.9	306.1	304.6	306.1	310.6	314.4	319.7	325.7	331.8	337.0	339.3
47.5°	291.8	289.5	289.5	293.3	300.1	306.1	314.4	320.4	327.2	331.8	333.3
50°	272.2	271.4	271.4	274.5	280.5	288.0	296.3	302.4	308.4	312.2	313.7
52.5°	260.9	258.6	257.9	261.6	266.9	274.5	282.7	288.8	293.3	296.3	297.1
55°	251.1	248.8	247.3	251.8	257.9	264.7	274.5	281.2	285.8	289.5	292.5
57.5°	242.8	240.5	239.0	244.3	250.3	258.6	266.9	274.5	280.5	285.0	288.0
60°	236.0	233.0	231.5	237.5	243.5	251.8	260.1	268.4	276.7	282.0	283.5
62.5°	227.7	225.4	223.2	227.0	230.0	236.0	243.5	251.8	259.4	264.7	264.7
63°	225.4	224.7	221.7	224.7	227.7	233.0	240.5	248.1	255.6	261.6	260.9
65°	215.6	215.6	214.1	217.2	220.2	225.4	231.5	239.8	246.6	251.1	251.8
67.5°	199.8	200.6	202.1	205.1	211.1	216.4	223.2	230.7	236.8	239.8	241.3
70°	181.7	183.2	186.2	190.8	196.0	200.6	205.1	212.6	217.9	220.9	222.4
72.5°	164.4	168.1	170.4	174.2	177.2	181.7	185.5	193.0	197.5	199.8	203.6
75°	148.5	151.6	153.1	155.3	158.3	159.8	164.4	167.4	173.4	176.4	181.0
77.5°	133.5	135.0	137.2	141.0	141.8	144.0	145.5	150.0	153.1	156.1	159.8
80°	119.9	121.4	124.4	126.7	127.4	128.9	129.7	128.9	128.2	125.9	128.9
82.5°	107.8	109.3	113.1	115.4	117.6	117.6	116.9	108.6	104.8	106.3	108.6
85°	89.0	90.5	94.2	98.8	99.5	98.8	99.5	91.2	86.0	83.7	86.0
87.5°	55.8	54.3	67.1	73.1	68.6	70.1	70.9	66.4	61.8	52.8	55.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	0°
2.5°	1259.2	1253.9	1254.6	1256.2	1256.2	1258.4	1255.4	1251.6	1253.9	1250.1	1249.4	2.5°
5°	1258.4	1251.6	1251.6	1253.1	1251.6	1253.1	1250.9	1247.1	1249.4	1244.8	1244.1	5°
7.5°	1255.4	1251.6	1253.1	1254.6	1252.4	1253.1	1252.4	1247.1	1247.9	1245.6	1240.3	7.5°
10°	1253.9	1251.6	1254.6	1259.2	1259.2	1259.9	1257.7	1251.6	1247.9	1245.6	1241.1	10°
12.5°	1238.1	1241.1	1247.1	1257.7	1261.4	1267.5	1270.5	1267.5	1269.0	1266.0	1264.4	12.5°
15°	1192.8	1200.4	1210.2	1226.0	1237.3	1250.9	1267.5	1275.0	1289.3	1300.6	1308.2	15°
17.5°	1138.5	1143.8	1154.4	1172.5	1186.8	1213.9	1236.5	1262.2	1290.1	1320.2	1346.6	17.5°
20°	1071.4	1067.7	1084.2	1103.8	1128.7	1158.9	1192.1	1230.5	1276.5	1324.8	1370.8	20°
22.5°	972.7	972.7	990.0	1013.4	1043.5	1078.2	1124.2	1165.7	1226.0	1296.1	1364.0	22.5°
25°	859.6	861.8	873.9	900.3	921.4	971.1	1014.1	1067.7	1140.0	1216.9	1307.4	25°
27.5°	738.9	754.0	751.0	778.9	806.8	855.8	914.6	968.9	1049.6	1131.7	1235.0	27.5°
30°	629.6	627.3	626.6	659.7	687.6	732.1	780.4	849.0	930.4	1036.0	1155.1	30°
32.5°	493.9	502.2	508.2	527.8	558.0	599.4	651.5	723.1	821.1	927.4	1061.6	32.5°
35°	407.9	410.2	418.5	429.8	456.2	490.8	545.1	608.5	694.4	804.5	947.0	35°
37.5°	365.7	367.9	377.0	387.6	406.4	432.0	469.0	518.0	597.2	699.7	832.4	37.5°
40°	352.1	354.4	359.7	369.5	386.8	408.7	438.1	475.8	533.1	613.0	729.1	40°
42.5°	346.1	346.1	346.8	354.4	371.7	397.4	429.0	463.0	505.2	565.5	659.7	42.5°
45°	339.3	339.3	338.5	343.8	357.4	386.8	425.3	466.7	512.7	564.7	638.6	45°
47.5°	333.3	331.8	330.2	332.5	343.8	374.0	418.5	469.0	527.8	592.6	667.3	47.5°
50°	312.2	312.2	311.4	312.2	322.7	354.4	405.6	466.7	541.4	625.1	715.5	50°
52.5°	297.1	297.8	298.6	298.6	306.9	339.3	395.8	467.5	556.4	656.7	771.3	52.5°
55°	293.3	294.8	294.8	293.3	300.1	329.5	386.8	465.2	567.0	692.2	830.9	55°
57.5°	288.8	289.5	290.3	288.8	293.3	318.9	374.0	454.7	564.0	705.7	875.4	57.5°
60°	282.7	279.7	279.0	276.7	279.7	300.1	351.4	432.0	545.9	699.7	890.5	60°
62.5°	266.2	263.9	261.6	259.4	261.6	276.7	326.5	404.1	515.7	675.6	878.4	62.5°
63°	262.4	260.9	258.6	256.4	256.4	272.9	318.2	397.4	508.2	668.8	873.9	63°
65°	251.8	251.1	249.6	247.3	246.6	259.4	299.3	366.4	472.8	638.6	845.2	65°
67.5°	239.8	239.8	239.0	236.0	232.2	239.8	267.7	320.4	410.9	561.0	774.4	67.5°
70°	222.4	222.4	221.7	220.2	215.6	220.9	239.0	273.7	338.5	458.4	649.2	70°
72.5°	205.1	205.1	207.3	206.6	207.3	208.1	217.2	236.0	275.2	356.6	490.8	72.5°
75°	182.5	186.2	187.0	188.5	189.3	188.5	193.0	204.3	227.0	273.7	358.1	75°
77.5°	163.6	168.9	168.1	166.6	165.9	166.6	165.9	171.2	187.7	217.2	265.4	77.5°
80°	135.0	140.2	140.2	139.5	138.0	139.5	138.0	143.3	156.8	182.5	211.1	80°
82.5°	110.8	114.6	116.9	118.4	116.9	122.9	122.9	121.4	131.9	154.6	177.9	82.5°
85°	89.0	92.7	95.0	98.0	99.5	98.0	97.3	95.8	101.8	119.9	135.7	85°
87.5°	56.5	59.6	59.6	60.3	60.3	62.6	58.1	52.8	48.3	68.6	71.6	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°
1247.1	1247.1	1247.1	1247.1	1247.1	1247.1	1247.1
1247.1	1247.1	1247.9	1245.6	1247.9	1247.9	1245.6
1241.8	1240.3	1240.3	1239.6	1241.1	1240.3	1239.6
1237.3	1237.3	1234.3	1232.0	1231.3	1234.3	1232.8
1235.8	1234.3	1233.5	1232.0	1232.8	1235.0	1236.5
1262.9	1257.7	1259.2	1258.4	1259.2	1261.4	1266.0
1312.7	1312.7	1316.5	1308.2	1311.9	1315.7	1321.8
1368.5	1382.1	1388.9	1388.1	1389.6	1392.6	1399.4
1416.0	1459.0	1489.1	1496.7	1517.0	1521.6	1511.0
1437.1	1514.0	1581.9	1627.1	1677.6	1698.0	1704.0
1394.1	1505.0	1616.6	1720.6	1820.1	1877.4	1928.0
1349.6	1480.8	1629.4	1784.7	1946.8	2093.1	2202.4
1287.8	1461.2	1661.8	1871.4	2086.3	2289.9	2472.3
1220.0	1429.6	1664.8	1919.7	2185.1	2438.4	2659.3
1122.7	1355.7	1616.6	1912.1	2219.8	2537.2	2813.1
1011.1	1238.1	1530.6	1868.4	2217.5	2587.7	2918.7
892.0	1124.2	1431.8	1793.8	2188.1	2603.5	2992.6
802.2	1032.2	1333.8	1722.9	2144.4	2593.0	3028.0
756.3	953.0	1253.9	1653.5	2095.3	2567.3	3043.1
765.3	931.9	1206.4	1596.2	2051.6	2539.5	3039.3
815.8	963.6	1205.6	1575.1	2023.7	2513.8	3028.8
892.0	1035.2	1249.4	1600.0	2038.8	2511.6	3028.0
977.9	1135.5	1354.9	1667.1	2102.9	2552.3	3046.1
1060.9	1257.7	1490.6	1817.1	2224.3	2654.1	3119.3
1109.9	1369.3	1664.8	2029.0	2411.3	2832.8	3279.9
1121.2	1436.4	1819.4	2237.1	2667.6	3091.4	3530.2
1120.4	1443.1	1845.8	2280.1	2719.7	3150.9	3594.3
1103.1	1456.7	1916.7	2421.8	2928.5	3406.5	3862.0
1048.8	1432.6	1955.9	2553.8	3135.9	3688.5	4264.6
924.4	1322.5	1909.9	2596.8	3259.5	3875.5	4533.0
723.8	1091.0	1649.0	2373.6	3092.1	3708.1	4539.8
508.9	771.3	1269.0	1949.1	2527.4	3133.6	4055.0
354.4	499.9	824.1	1311.2	1823.9	2286.1	3014.5
259.4	332.5	493.9	784.2	1106.9	1428.8	1870.7
199.8	239.8	315.9	473.5	625.1	800.0	1128.0
140.2	158.3	195.3	292.5	419.2	572.3	826.4
61.1	71.6	94.2	172.7	283.5	272.9	260.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)