

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: P145766

Luminaire Tested: **LDRL-SLL-F05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145766
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11407.7 lumens
Efficiency: N/A
Efficacy: 85.6 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

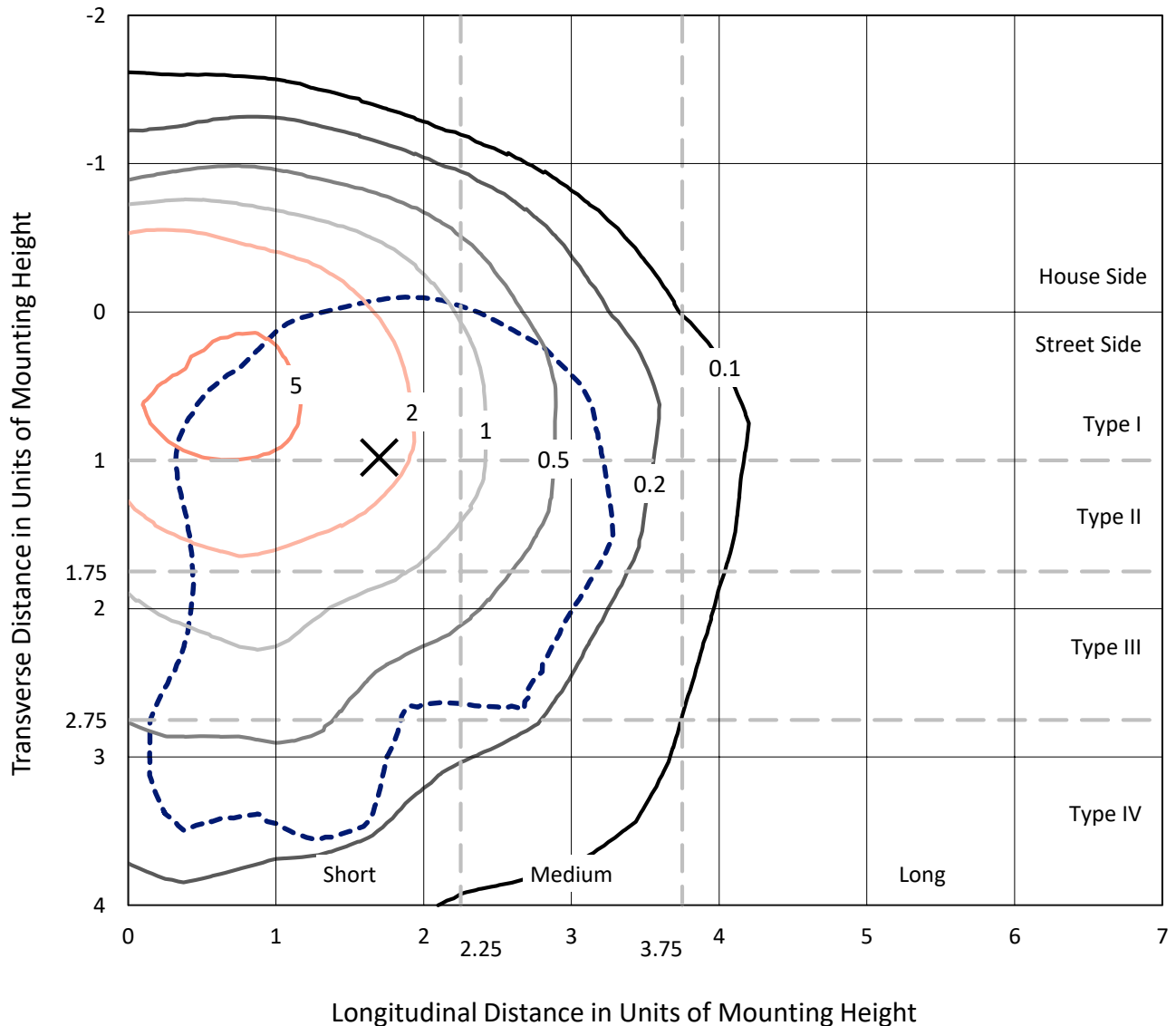
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

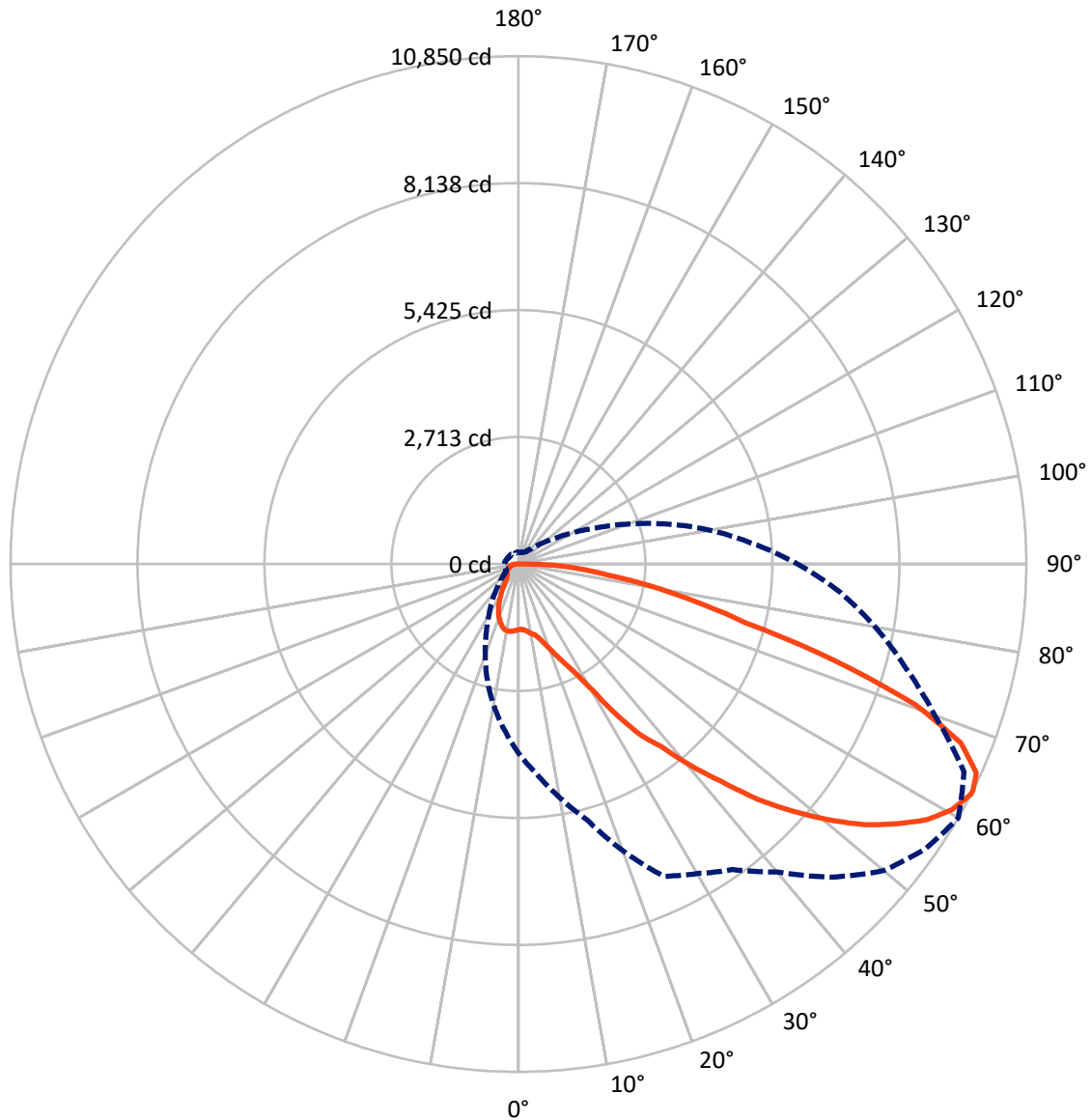
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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	2388.0	0.0	2388.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9019.8	0.0	9019.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	11407.7	0.0	11407.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.2
10°-20°	429.5	3.8
20°-30°	759.5	6.7
30°-40°	1199.0	10.5
40°-50°	1763.1	15.5
50°-60°	2322.5	20.4
60°-70°	2588.6	22.7
70°-80°	1700.8	14.9
80°-90°	507.2	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°	11407.7	100.0
0°-180°	11407.7	100.0

Coefficient of Utilization



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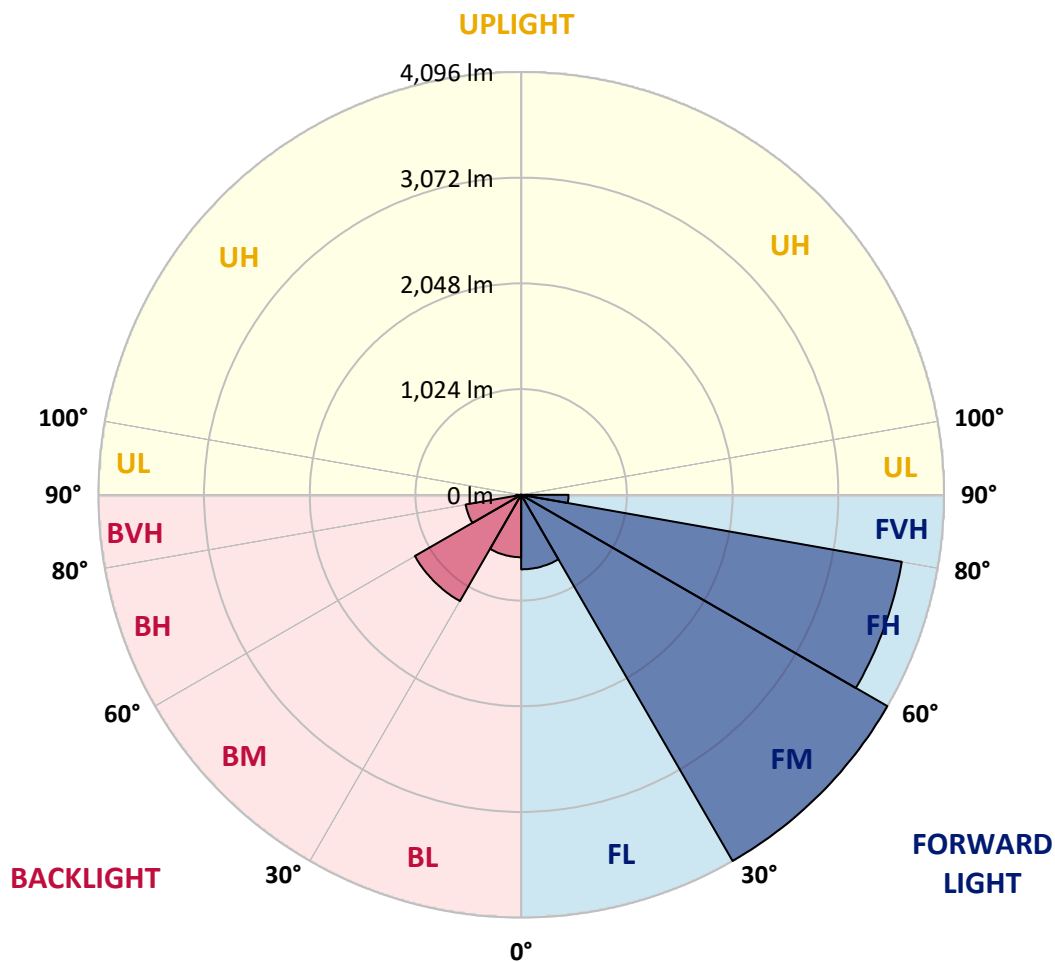
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.0	6.3			
FM	(30°-60°)	4095.7	35.9			
FH	(60°-80°)	3743.7	32.8			G2/5000
FVH	(80°-90°)	458.4	4.0			G3/500
BL	(0°-30°)	604.5	5.3	B2/1000		
BM	(30°-60°)	1188.9	10.4	B2/2500		
BH	(60°-80°)	545.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.8	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°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1399.4	1400.2	1397.7	1396.8	1395.1	1396.0	1396.0	1394.3	1394.3	1395.1	1392.6
5°	1392.6	1394.3	1393.4	1395.1	1396.8	1399.4	1401.9	1404.5	1407.0	1410.4	1411.2
7.5°	1385.0	1390.1	1390.9	1396.0	1401.9	1408.7	1417.2	1426.5	1439.2	1442.6	1450.2
10°	1389.2	1398.5	1403.6	1413.8	1423.1	1435.8	1451.0	1460.4	1476.5	1482.4	1493.4
12.5°	1422.2	1429.0	1435.8	1447.7	1461.2	1477.3	1494.2	1508.6	1525.6	1531.5	1535.7
15°	1484.9	1491.7	1499.3	1511.2	1525.6	1545.1	1569.6	1587.4	1607.7	1623.0	1634.0
17.5°	1572.2	1572.2	1590.0	1593.3	1621.3	1651.0	1681.4	1716.2	1737.4	1750.1	1770.4
20°	1697.5	1697.5	1721.3	1732.3	1756.0	1794.1	1835.6	1873.7	1904.2	1929.6	1948.3
22.5°	1914.4	1905.1	1925.4	1922.9	1951.7	2008.4	2049.1	2070.3	2110.9	2126.2	2150.7
25°	2166.0	2199.0	2221.0	2221.0	2232.9	2291.3	2325.2	2341.3	2378.6	2367.6	2393.0
27.5°	2474.3	2563.3	2645.4	2679.3	2663.2	2727.6	2739.4	2754.7	2750.5	2724.2	2716.6
30°	2777.6	2934.3	3062.2	3140.1	3229.9	3354.4	3354.4	3374.7	3330.7	3257.9	3214.7
32.5°	2987.6	3189.2	3384.9	3546.7	3699.2	3889.8	3970.2	4082.1	4100.7	4128.6	4032.1
35°	3160.4	3443.4	3653.4	3896.5	4082.9	4276.0	4490.3	4684.3	4813.1	4791.9	4753.8
37.5°	3279.0	3642.4	3935.5	4221.0	4504.7	4725.8	4929.1	5182.4	5428.9	5478.0	5374.7
40°	3362.0	3783.0	4186.2	4536.9	4893.6	5225.6	5473.0	5744.9	6131.1	6294.6	6209.9
42.5°	3401.9	3893.2	4343.0	4789.4	5240.9	5660.2	5970.2	6342.9	6801.2	7080.7	6987.5
45°	3418.8	3960.9	4470.0	4978.3	5520.4	6038.0	6437.8	6860.5	7376.3	7825.3	7842.2
47.5°	3414.6	3997.3	4557.3	5112.9	5739.8	6342.1	6878.3	7357.7	7942.2	8414.0	8589.3
50°	3402.7	4010.1	4609.8	5194.3	5877.9	6564.8	7168.8	7738.9	8392.0	8989.2	9256.0
52.5°	3401.9	4012.6	4636.0	5239.2	5959.2	6701.2	7350.9	8024.3	8740.1	9364.4	9780.3
55°	3422.2	4027.8	4664.8	5270.5	6003.2	6778.3	7453.4	8203.1	8891.8	9600.8	10137.8
57.5°	3504.4	4099.0	4733.5	5323.9	6052.4	6839.3	7533.0	8254.8	8936.6	9699.0	10345.3
60°	3684.8	4232.0	4852.9	5422.1	6180.3	6999.4	7608.4	8181.9	8851.9	9671.1	10375.0
62.5°	3966.0	4445.5	5019.8	5603.4	6440.3	7303.5	7639.8	8015.0	8642.7	9510.1	10247.1
63°	4038.0	4502.2	5063.8	5653.4	6515.7	7361.1	7637.2	7971.0	8585.1	9462.7	10189.5
65°	4338.7	4764.8	5268.8	5892.3	6858.8	7544.1	7544.9	7711.8	8291.2	9200.9	9953.1
67.5°	4791.1	5197.7	5587.3	6207.4	7238.3	7635.5	7271.3	7145.1	7657.6	8646.9	9353.4
70°	5092.6	5594.9	5813.5	6290.4	7289.9	7524.6	6838.4	6417.4	6842.7	7669.4	8297.1
72.5°	5100.2	5672.9	5736.4	5936.3	6806.3	6994.3	6093.0	5522.9	5778.7	6472.5	6802.9
75°	4555.6	5275.6	5145.1	5071.4	5542.4	5622.9	4928.3	4691.1	5018.9	5428.9	5263.7
77.5°	3386.6	4343.8	4078.7	3765.3	3936.4	3948.2	3970.2	4417.5	4819.9	4987.6	4747.0
80°	2101.6	3190.9	2987.6	2470.9	2537.0	2731.8	3316.3	4106.6	4547.1	4667.4	4186.2
82.5°	1267.2	2347.2	2238.8	1885.6	1968.6	2454.0	3100.3	3318.8	3467.1	3456.1	2958.8
85°	928.4	1594.2	1741.6	1767.8	2062.6	2382.8	2369.3	2207.5	2116.8	1862.7	1590.0
87.5°	292.2	822.5	975.8	1137.6	1246.0	1179.1	1159.6	1002.1	717.5	606.5	666.6
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°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1392.6	1396.0	1397.7	1396.8	1397.7	1397.7	1402.8	1401.1	1402.8	1401.9	1407.0
5°	1413.8	1418.9	1423.1	1423.1	1423.9	1425.6	1432.4	1432.4	1435.8	1442.6	1446.0
7.5°	1455.3	1462.1	1462.9	1464.6	1469.7	1467.1	1471.4	1473.1	1475.6	1479.0	1483.2
10°	1498.5	1507.8	1507.8	1506.9	1507.8	1501.0	1503.6	1498.5	1499.3	1504.4	1509.5
12.5°	1546.8	1551.8	1548.5	1545.9	1545.9	1533.2	1531.5	1524.7	1521.3	1522.2	1523.9
15°	1643.3	1639.1	1638.2	1634.0	1618.8	1609.4	1602.7	1581.5	1570.5	1564.5	1554.4
17.5°	1772.1	1774.6	1770.4	1766.2	1744.1	1712.8	1699.2	1676.4	1661.1	1645.9	1627.2
20°	1960.1	1943.2	1941.5	1927.9	1897.4	1853.4	1820.4	1783.1	1761.9	1739.9	1720.4
22.5°	2167.7	2149.9	2138.0	2111.8	2066.9	2011.0	1955.9	1908.5	1876.3	1860.2	1846.6
25°	2398.1	2387.9	2368.4	2301.5	2265.9	2201.5	2141.4	2094.8	2058.4	2044.8	2021.1
27.5°	2674.2	2681.8	2645.4	2582.7	2537.8	2447.2	2395.5	2315.1	2284.6	2235.4	2204.9
30°	3177.4	3128.3	3066.4	2970.7	2880.1	2758.1	2672.5	2588.7	2543.8	2477.7	2396.4
32.5°	3999.9	3812.7	3646.7	3443.4	3251.1	3095.2	2971.5	2865.7	2797.0	2687.8	2549.7
35°	4663.2	4482.7	4208.3	3912.6	3660.2	3460.3	3304.4	3204.5	3067.3	2892.8	2692.9
37.5°	5149.4	4941.8	4685.2	4459.0	4183.7	3960.9	3750.0	3542.5	3349.3	3085.0	2830.1
40°	5938.8	5657.6	5234.9	4968.1	4742.8	4441.2	4243.8	3964.3	3670.4	3329.9	2960.5
42.5°	6719.9	6347.1	5964.3	5657.6	5337.4	5010.5	4739.4	4364.1	3973.6	3532.3	3077.4
45°	7627.1	7170.5	6669.9	6241.3	5912.6	5528.0	5180.7	4719.9	4221.8	3698.3	3179.1
47.5°	8342.0	7889.7	7324.7	6892.7	6449.6	6015.9	5565.3	4996.9	4406.5	3833.9	3273.9
50°	9027.3	8591.0	7990.5	7460.2	6951.1	6427.6	5882.9	5193.4	4551.3	3939.7	3349.3
52.5°	9642.3	9254.3	8605.4	7971.8	7402.6	6799.5	6124.4	5377.2	4690.3	4049.0	3408.6
55°	10163.2	9799.8	9217.9	8429.2	7782.9	7115.4	6352.2	5545.0	4836.8	4163.4	3451.8
57.5°	10513.1	10303.0	9681.2	8831.6	8095.5	7384.8	6524.2	5713.5	4974.0	4234.5	3470.5
60°	10675.7	10647.7	10121.7	9195.0	8373.3	7594.9	6741.0	5892.3	5064.7	4266.7	3444.2
62.5°	10641.8	10841.7	10457.1	9444.0	8550.4	7726.2	6879.9	5969.3	5041.8	4188.8	3328.2
63°	10610.5	10850.2	10504.6	9468.6	8564.8	7738.9	6893.5	5960.0	5020.6	4154.1	3288.3
65°	10380.9	10750.2	10516.4	9424.6	8498.7	7702.5	6832.5	5813.5	4809.7	3935.5	3063.0
67.5°	9818.5	10188.6	10059.0	8939.2	8070.9	7311.1	6406.4	5314.6	4293.0	3471.3	2645.4
70°	8657.1	8988.3	8833.3	7848.2	7041.7	6503.0	5643.2	4420.0	3497.6	2790.3	2013.5
72.5°	6847.8	7080.7	7114.6	6331.9	5714.4	5390.8	4546.3	3334.1	2554.8	1943.2	1307.0
75°	5070.6	5016.4	5027.4	4590.3	4338.7	4202.3	3398.5	2287.1	1721.3	1187.6	775.1
77.5°	4261.6	3872.0	3539.9	3418.8	3125.7	3041.0	2241.4	1403.6	1004.6	710.7	441.3
80°	3465.4	2875.0	2392.1	2177.8	2063.5	2080.4	1240.1	748.0	526.0	387.1	276.1
82.5°	2369.3	1920.3	1514.6	1315.5	1295.2	1314.7	644.6	366.8	277.8	222.8	173.7
85°	1401.1	1318.9	1177.4	1045.3	999.5	943.6	479.4	262.6	143.2	118.6	97.4
87.5°	605.7	743.7	761.5	758.1	705.6	566.7	176.2	67.8	60.1	30.5	24.6
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°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1407.0	1407.8	1406.1	1407.8	1413.8	1413.8	1412.9	1414.6	1415.5	1420.5	1418.9
5°	1449.3	1450.2	1451.0	1457.0	1461.2	1466.3	1464.6	1466.3	1469.7	1470.5	1472.2
7.5°	1488.3	1493.4	1500.2	1502.7	1510.3	1512.0	1519.7	1520.5	1522.2	1518.8	1515.4
10°	1515.4	1520.5	1529.0	1533.2	1546.8	1548.5	1554.4	1556.1	1559.5	1556.9	1554.4
12.5°	1529.0	1533.2	1542.5	1551.0	1569.6	1575.6	1585.7	1591.7	1595.9	1593.3	1584.9
15°	1556.9	1556.1	1561.2	1567.9	1584.9	1595.9	1610.3	1617.9	1623.0	1618.8	1607.7
17.5°	1621.3	1609.4	1609.4	1605.2	1617.9	1620.5	1626.4	1630.6	1628.9	1616.2	1598.4
20°	1710.2	1692.5	1681.4	1671.3	1667.0	1645.9	1634.9	1619.6	1606.1	1583.2	1562.9
22.5°	1825.4	1812.7	1787.3	1764.5	1732.3	1689.1	1642.5	1602.7	1573.0	1541.7	1506.9
25°	1999.9	1971.1	1934.7	1880.5	1839.0	1762.8	1684.8	1609.4	1545.9	1496.8	1438.3
27.5°	2164.3	2103.3	2034.7	1950.0	1873.7	1772.1	1673.0	1585.7	1502.7	1423.9	1357.0
30°	2301.5	2195.6	2083.8	1965.2	1856.8	1734.0	1618.8	1519.7	1425.6	1332.4	1268.9
32.5°	2404.8	2252.4	2103.3	1951.7	1817.8	1673.8	1541.7	1435.8	1329.1	1230.8	1157.1
35°	2498.0	2292.2	2097.4	1915.2	1756.8	1597.6	1455.3	1336.7	1219.8	1114.8	1030.0
37.5°	2564.9	2305.7	2071.9	1862.7	1678.9	1504.4	1350.2	1224.0	1098.7	991.9	898.7
40°	2616.6	2299.0	2023.7	1782.2	1572.2	1390.9	1240.1	1108.0	982.6	875.9	778.5
42.5°	2651.3	2273.6	1950.8	1690.8	1483.2	1293.5	1146.1	1007.2	881.8	770.0	662.4
45°	2696.2	2263.4	1905.9	1622.1	1402.8	1211.3	1053.8	918.2	787.8	670.9	568.4
47.5°	2738.6	2257.5	1869.5	1565.4	1329.9	1136.8	980.9	838.6	707.3	593.0	499.8
50°	2764.0	2248.1	1831.4	1496.8	1248.6	1060.5	911.5	767.5	635.3	526.0	443.0
52.5°	2771.6	2229.5	1781.4	1418.9	1178.3	995.3	840.3	696.3	569.2	471.0	393.9
55°	2765.7	2193.1	1713.6	1355.3	1106.3	923.3	768.3	628.5	513.3	421.0	359.2
57.5°	2736.9	2120.2	1626.4	1274.8	1024.1	832.7	680.2	552.3	449.8	376.1	328.7
60°	2672.5	2015.2	1519.7	1162.2	906.4	725.1	581.1	471.0	384.6	331.2	299.9
62.5°	2531.9	1863.6	1364.6	1002.9	748.8	581.9	456.6	375.3	316.8	288.9	270.2
63°	2490.4	1811.0	1318.9	960.6	721.7	549.8	428.6	354.9	302.4	279.5	264.3
65°	2271.9	1568.8	1114.8	772.5	559.1	416.8	327.0	278.7	250.7	242.3	238.0
67.5°	1861.9	1220.6	784.4	518.4	375.3	288.0	241.4	222.8	212.6	211.8	214.3
70°	1315.5	809.8	485.4	332.1	258.4	217.7	199.9	191.4	186.4	188.1	193.1
72.5°	855.5	475.2	306.6	243.1	210.1	191.4	178.7	176.2	174.5	172.8	174.5
75°	452.3	297.3	232.1	203.3	183.8	168.6	160.1	156.7	157.6	157.6	157.6
77.5°	280.4	226.2	198.2	179.6	164.3	149.1	140.6	138.1	138.9	140.6	141.5
80°	215.2	197.4	174.5	160.9	138.9	126.2	122.0	121.1	122.8	122.8	125.4
82.5°	157.6	152.5	144.0	127.1	110.1	101.6	100.8	104.2	100.8	100.0	101.6
85°	92.3	86.4	94.0	80.5	73.7	68.6	72.0	78.8	82.2	77.9	76.2
87.5°	29.6	20.3	29.6	33.0	29.6	25.4	32.2	38.1	39.0	37.3	42.4
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: P145766

CATALOG NUMBER: LDRL-SLL-F05-E-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1418.0	1423.9	1418.0	1420.5	1419.7	1418.0	1420.5	1417.2	1415.5	1420.5	1419.7
5°	1471.4	1472.2	1464.6	1465.4	1464.6	1457.8	1457.8	1454.4	1450.2	1451.0	1449.3
7.5°	1514.6	1512.9	1506.9	1504.4	1496.8	1491.7	1488.3	1483.2	1479.8	1476.5	1474.8
10°	1547.6	1543.4	1539.1	1531.5	1523.9	1519.7	1510.3	1502.7	1500.2	1495.1	1491.7
12.5°	1576.4	1568.8	1562.0	1552.7	1543.4	1536.6	1525.6	1519.7	1515.4	1508.6	1503.6
15°	1592.5	1578.1	1565.4	1551.0	1540.8	1530.7	1518.0	1515.4	1509.5	1502.7	1493.4
17.5°	1573.0	1552.7	1529.0	1513.7	1498.5	1483.2	1470.5	1470.5	1468.0	1460.4	1444.3
20°	1533.2	1502.7	1474.8	1450.2	1434.9	1412.9	1405.3	1393.4	1385.0	1371.4	1351.1
22.5°	1468.0	1435.8	1399.4	1374.8	1348.5	1324.0	1308.7	1290.1	1283.3	1261.3	1234.2
25°	1395.1	1348.5	1309.6	1277.4	1241.0	1212.2	1191.0	1165.6	1148.6	1127.5	1093.6
27.5°	1308.7	1260.4	1216.4	1180.8	1142.7	1102.9	1063.9	1034.3	1003.8	979.2	959.7
30°	1215.6	1165.6	1111.4	1069.9	1025.8	975.8	943.6	903.8	880.1	853.0	827.6
32.5°	1093.6	1049.5	986.0	937.7	883.5	844.5	818.3	780.2	752.2	729.3	714.9
35°	959.7	893.7	830.1	793.7	756.4	725.1	688.7	659.0	640.4	616.7	604.0
37.5°	814.0	737.0	682.7	650.6	612.4	597.2	574.3	556.5	539.6	523.5	513.3
40°	683.6	612.4	563.3	536.2	510.8	493.8	479.4	471.8	460.8	448.1	440.5
42.5°	575.2	518.4	470.1	444.7	425.2	423.5	414.2	408.3	404.1	396.4	384.6
45°	490.5	438.8	397.3	376.9	368.5	369.3	369.3	364.2	364.2	361.7	354.1
47.5°	433.7	387.1	356.6	343.1	339.7	340.5	338.0	336.3	337.1	336.3	332.1
50°	389.7	349.8	324.4	319.3	318.5	317.7	314.3	311.7	310.9	312.6	311.7
52.5°	344.8	311.7	297.3	295.6	296.5	296.5	295.6	294.8	296.5	298.2	295.6
55°	319.3	295.6	286.3	286.3	286.3	286.3	285.5	284.6	287.2	289.7	285.5
57.5°	295.6	278.7	275.3	275.3	275.3	273.6	273.6	274.5	277.8	282.9	277.8
60°	277.8	269.4	269.4	270.2	269.4	266.0	263.4	263.4	267.7	274.5	270.2
62.5°	260.9	256.7	258.4	257.5	255.8	251.6	248.2	248.2	253.3	260.1	261.7
63°	256.7	253.3	255.0	254.1	252.4	249.0	245.7	245.7	249.9	256.7	259.2
65°	238.0	238.9	239.7	240.6	239.7	238.9	234.6	232.9	236.3	241.4	244.8
67.5°	216.0	217.7	219.4	223.6	221.9	221.9	219.4	217.7	218.5	221.1	223.6
70°	195.7	197.4	199.9	201.6	202.5	203.3	201.6	199.1	199.9	200.8	202.5
72.5°	176.2	177.9	179.6	183.0	183.0	183.0	181.3	179.6	180.4	182.1	183.8
75°	158.4	159.3	160.9	163.5	164.3	162.6	162.6	160.9	161.8	164.3	166.0
77.5°	140.6	138.9	139.8	141.5	144.0	144.0	144.8	144.0	145.7	147.4	149.1
80°	120.3	118.6	116.9	117.7	121.1	125.4	129.6	129.6	132.1	133.0	135.5
82.5°	95.7	94.0	93.2	95.7	94.9	100.8	110.1	115.2	118.6	122.0	123.7
85°	74.5	70.3	72.0	72.0	70.3	79.6	88.1	94.9	95.7	100.8	101.6
87.5°	44.0	42.4	40.7	39.0	44.9	54.2	61.8	64.4	66.1	68.6	71.2
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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CATALOG NUMBER: LDRL-SLL-F05-E-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1412.9	1419.7	1418.0	1417.2	1418.0	1417.2	1414.6	1415.5	1413.8	1414.6	1412.9
5°	1440.0	1443.4	1440.9	1436.6	1436.6	1430.7	1426.5	1423.1	1418.9	1417.2	1413.8
7.5°	1466.3	1463.7	1460.4	1452.7	1448.5	1440.9	1434.9	1428.2	1423.9	1418.9	1412.9
10°	1482.4	1477.3	1470.5	1461.2	1449.3	1442.6	1434.1	1423.9	1418.9	1416.3	1410.4
12.5°	1490.0	1476.5	1465.4	1448.5	1431.6	1418.9	1409.5	1399.4	1396.8	1393.4	1389.2
15°	1472.2	1452.7	1424.8	1401.9	1379.9	1362.1	1354.5	1343.5	1340.9	1340.1	1339.2
17.5°	1412.1	1382.4	1355.3	1324.8	1305.3	1289.2	1282.5	1279.9	1275.7	1274.0	1274.8
20°	1315.5	1290.1	1263.0	1252.8	1230.0	1225.7	1215.6	1208.8	1201.2	1198.6	1194.4
22.5°	1202.8	1171.5	1154.6	1146.9	1137.6	1115.6	1110.5	1103.7	1093.6	1086.0	1084.3
25°	1071.6	1046.1	1045.3	1027.5	1019.9	1008.0	994.5	986.0	980.1	970.7	964.0
27.5°	937.7	928.4	912.3	898.7	893.7	886.9	866.6	862.3	855.5	847.9	840.3
30°	813.2	806.4	791.2	778.5	770.8	757.3	737.8	739.5	725.9	715.8	709.0
32.5°	692.1	687.0	672.6	669.2	644.6	637.8	617.5	602.3	588.7	578.6	570.1
35°	582.8	569.2	570.1	554.8	541.3	521.0	499.8	480.3	469.3	464.2	456.6
37.5°	504.0	491.3	478.6	461.7	446.4	432.0	419.3	413.4	406.6	408.3	409.1
40°	432.9	423.5	414.2	402.4	393.0	387.1	383.7	383.7	384.6	388.8	392.2
42.5°	382.0	374.4	369.3	365.1	366.8	366.8	369.3	373.6	377.8	383.7	387.1
45°	348.1	343.9	342.2	343.9	349.0	353.2	359.2	365.9	372.7	378.6	381.2
47.5°	327.8	325.3	325.3	329.5	337.1	343.9	353.2	360.0	367.6	372.7	374.4
50°	305.8	304.9	304.9	308.3	315.1	323.6	332.9	339.7	346.5	350.7	352.4
52.5°	293.1	290.5	289.7	293.9	299.9	308.3	317.7	324.4	329.5	332.9	333.7
55°	282.1	279.5	277.8	282.9	289.7	297.3	308.3	316.0	321.0	325.3	328.7
57.5°	272.8	270.2	268.5	274.5	281.2	290.5	299.9	308.3	315.1	320.2	323.6
60°	265.1	261.7	260.1	266.8	273.6	282.9	292.2	301.6	310.9	316.8	318.5
62.5°	255.8	253.3	250.7	255.0	258.4	265.1	273.6	282.9	291.4	297.3	297.3
63°	253.3	252.4	249.0	252.4	255.8	261.7	270.2	278.7	287.2	293.9	293.1
65°	242.3	242.3	240.6	244.0	247.3	253.3	260.1	269.4	277.0	282.1	282.9
67.5°	224.5	225.3	227.0	230.4	237.2	243.1	250.7	259.2	266.0	269.4	271.1
70°	204.1	205.8	209.2	214.3	220.2	225.3	230.4	238.9	244.8	248.2	249.9
72.5°	184.7	188.9	191.4	195.7	199.1	204.1	208.4	216.9	221.9	224.5	228.7
75°	166.9	170.3	172.0	174.5	177.9	179.6	184.7	188.1	194.8	198.2	203.3
77.5°	149.9	151.6	154.2	158.4	159.3	161.8	163.5	168.6	172.0	175.3	179.6
80°	134.7	136.4	139.8	142.3	143.2	144.8	145.7	144.8	144.0	141.5	144.8
82.5°	121.1	122.8	127.1	129.6	132.1	132.1	131.3	122.0	117.7	119.4	122.0
85°	100.0	101.6	105.9	111.0	111.8	111.0	111.8	102.5	96.6	94.0	96.6
87.5°	62.7	61.0	75.4	82.2	77.1	78.8	79.6	74.5	69.5	59.3	61.8
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: P145766
 CATALOG NUMBER: LDRL-SLL-F05-E-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	0°
2.5°	1414.6	1408.7	1409.5	1411.2	1411.2	1413.8	1410.4	1406.1	1408.7	1404.5	1403.6	2.5°
5°	1413.8	1406.1	1406.1	1407.8	1406.1	1407.8	1405.3	1401.1	1403.6	1398.5	1397.7	5°
7.5°	1410.4	1406.1	1407.8	1409.5	1407.0	1407.8	1407.0	1401.1	1401.9	1399.4	1393.4	7.5°
10°	1408.7	1406.1	1409.5	1414.6	1414.6	1415.5	1412.9	1406.1	1401.9	1399.4	1394.3	10°
12.5°	1390.9	1394.3	1401.1	1412.9	1417.2	1423.9	1427.3	1423.9	1425.6	1422.2	1420.5	12.5°
15°	1340.1	1348.5	1359.6	1377.3	1390.1	1405.3	1423.9	1432.4	1448.5	1461.2	1469.7	15°
17.5°	1279.1	1285.0	1296.9	1317.2	1333.3	1363.8	1389.2	1418.0	1449.3	1483.2	1512.9	17.5°
20°	1203.7	1199.5	1218.1	1240.1	1268.1	1302.0	1339.2	1382.4	1434.1	1488.3	1540.0	20°
22.5°	1092.7	1092.7	1112.2	1138.5	1172.4	1211.3	1263.0	1309.6	1377.3	1456.1	1532.4	22.5°
25°	965.7	968.2	981.8	1011.4	1035.1	1091.0	1139.3	1199.5	1280.8	1367.2	1468.8	25°
27.5°	830.1	847.1	843.7	875.0	906.4	961.4	1027.5	1088.5	1179.1	1271.5	1387.5	27.5°
30°	707.3	704.8	703.9	741.2	772.5	822.5	876.7	953.8	1045.3	1163.9	1297.7	30°
32.5°	554.8	564.2	570.9	593.0	626.8	673.4	731.9	812.3	922.5	1041.9	1192.7	32.5°
35°	458.3	460.8	470.1	482.8	512.5	551.4	612.4	683.6	780.2	903.8	1063.9	35°
37.5°	410.8	413.4	423.5	435.4	456.6	485.4	526.9	581.9	670.9	786.1	935.2	37.5°
40°	395.6	398.1	404.1	415.1	434.5	459.1	492.2	534.5	598.9	688.7	819.1	40°
42.5°	388.8	388.8	389.7	398.1	417.6	446.4	482.0	520.1	567.5	635.3	741.2	42.5°
45°	381.2	381.2	380.3	386.3	401.5	434.5	477.8	524.3	576.0	634.5	717.5	45°
47.5°	374.4	372.7	371.0	373.6	386.3	420.1	470.1	526.9	593.0	665.8	749.7	47.5°
50°	350.7	350.7	349.8	350.7	362.5	398.1	455.7	524.3	608.2	702.2	803.9	50°
52.5°	333.7	334.6	335.4	335.4	344.8	381.2	444.7	525.2	625.1	737.8	866.6	52.5°
55°	329.5	331.2	331.2	329.5	337.1	370.2	434.5	522.6	637.0	777.6	933.5	55°
57.5°	324.4	325.3	326.1	324.4	329.5	358.3	420.1	510.8	633.6	792.9	983.5	57.5°
60°	317.7	314.3	313.4	310.9	314.3	337.1	394.7	485.4	613.3	786.1	1000.4	60°
62.5°	299.0	296.5	293.9	291.4	293.9	310.9	366.8	454.0	579.4	759.0	986.8	62.5°
63°	294.8	293.1	290.5	288.0	288.0	306.6	357.5	446.4	570.9	751.4	981.8	63°
65°	282.9	282.1	280.4	277.8	277.0	291.4	336.3	411.7	531.1	717.5	949.6	65°
67.5°	269.4	269.4	268.5	265.1	260.9	269.4	300.7	360.0	461.7	630.2	869.9	67.5°
70°	249.9	249.9	249.0	247.3	242.3	248.2	268.5	307.5	380.3	515.0	729.3	70°
72.5°	230.4	230.4	232.9	232.1	232.9	233.8	244.0	265.1	309.2	400.7	551.4	72.5°
75°	205.0	209.2	210.1	211.8	212.6	211.8	216.9	229.6	255.0	307.5	402.4	75°
77.5°	183.8	189.7	188.9	187.2	186.4	187.2	186.4	192.3	210.9	244.0	298.2	77.5°
80°	151.6	157.6	157.6	156.7	155.0	156.7	155.0	160.9	176.2	205.0	237.2	80°
82.5°	124.5	128.8	131.3	133.0	131.3	138.1	138.1	136.4	148.2	173.7	199.9	82.5°
85°	100.0	104.2	106.7	110.1	111.8	110.1	109.3	107.6	114.4	134.7	152.5	85°
87.5°	63.5	66.9	66.9	67.8	67.8	70.3	65.2	59.3	54.2	77.1	80.5	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: P145766

NUMBER: LDRL-SLL-F05-E-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
1401.1	1401.1	1401.9	1399.4	1401.9	1401.9	1399.4
1395.1	1393.4	1393.4	1392.6	1394.3	1393.4	1392.6
1390.1	1390.1	1386.7	1384.1	1383.3	1386.7	1385.0
1388.4	1386.7	1385.8	1384.1	1385.0	1387.5	1389.2
1418.9	1412.9	1414.6	1413.8	1414.6	1417.2	1422.2
1474.8	1474.8	1479.0	1469.7	1473.9	1478.1	1484.9
1537.4	1552.7	1560.3	1559.5	1561.2	1564.5	1572.2
1590.8	1639.1	1673.0	1681.4	1704.3	1709.4	1697.5
1614.5	1700.9	1777.2	1828.0	1884.7	1907.6	1914.4
1566.2	1690.8	1816.1	1933.0	2044.8	2109.2	2166.0
1516.3	1663.7	1830.5	2005.0	2187.1	2351.5	2474.3
1446.8	1641.6	1867.0	2102.4	2343.9	2572.6	2777.6
1370.6	1606.1	1870.3	2156.7	2454.8	2739.4	2987.6
1261.3	1523.0	1816.1	2148.2	2493.8	2850.4	3160.4
1135.9	1390.9	1719.6	2099.1	2491.2	2907.2	3279.0
1002.1	1263.0	1608.6	2015.2	2458.2	2925.0	3362.0
901.3	1159.6	1498.5	1935.6	2409.1	2913.1	3401.9
849.6	1070.7	1408.7	1857.6	2354.0	2884.3	3418.8
859.8	1047.0	1355.3	1793.3	2304.9	2853.0	3414.6
916.5	1082.6	1354.5	1769.5	2273.6	2824.2	3402.7
1002.1	1163.0	1403.6	1797.5	2290.5	2821.6	3401.9
1098.7	1275.7	1522.2	1872.9	2362.5	2867.4	3422.2
1191.8	1412.9	1674.7	2041.5	2498.9	2981.7	3504.4
1246.9	1538.3	1870.3	2279.5	2708.9	3182.5	3684.8
1259.6	1613.7	2044.0	2513.3	2997.0	3473.0	3966.0
1258.8	1621.3	2073.6	2561.6	3055.4	3539.9	4038.0
1239.3	1636.6	2153.3	2720.8	3290.0	3827.1	4338.7
1178.3	1609.4	2197.3	2869.0	3523.0	4143.9	4791.1
1038.5	1485.8	2145.6	2917.3	3661.9	4354.0	5092.6
813.2	1225.7	1852.6	2666.6	3473.9	4165.9	5100.2
571.8	866.6	1425.6	2189.7	2839.4	3520.4	4555.6
398.1	561.6	925.9	1473.1	2049.1	2568.3	3386.6
291.4	373.6	554.8	881.0	1243.5	1605.2	2101.6
224.5	269.4	354.9	532.0	702.2	898.7	1267.2
157.6	177.9	219.4	328.7	471.0	642.9	928.4
68.6	80.5	105.9	194.0	318.5	306.6	292.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)