

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: P145759

Luminaire Tested: **LDRL-SLL-E05-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145759
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-E05-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12300.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

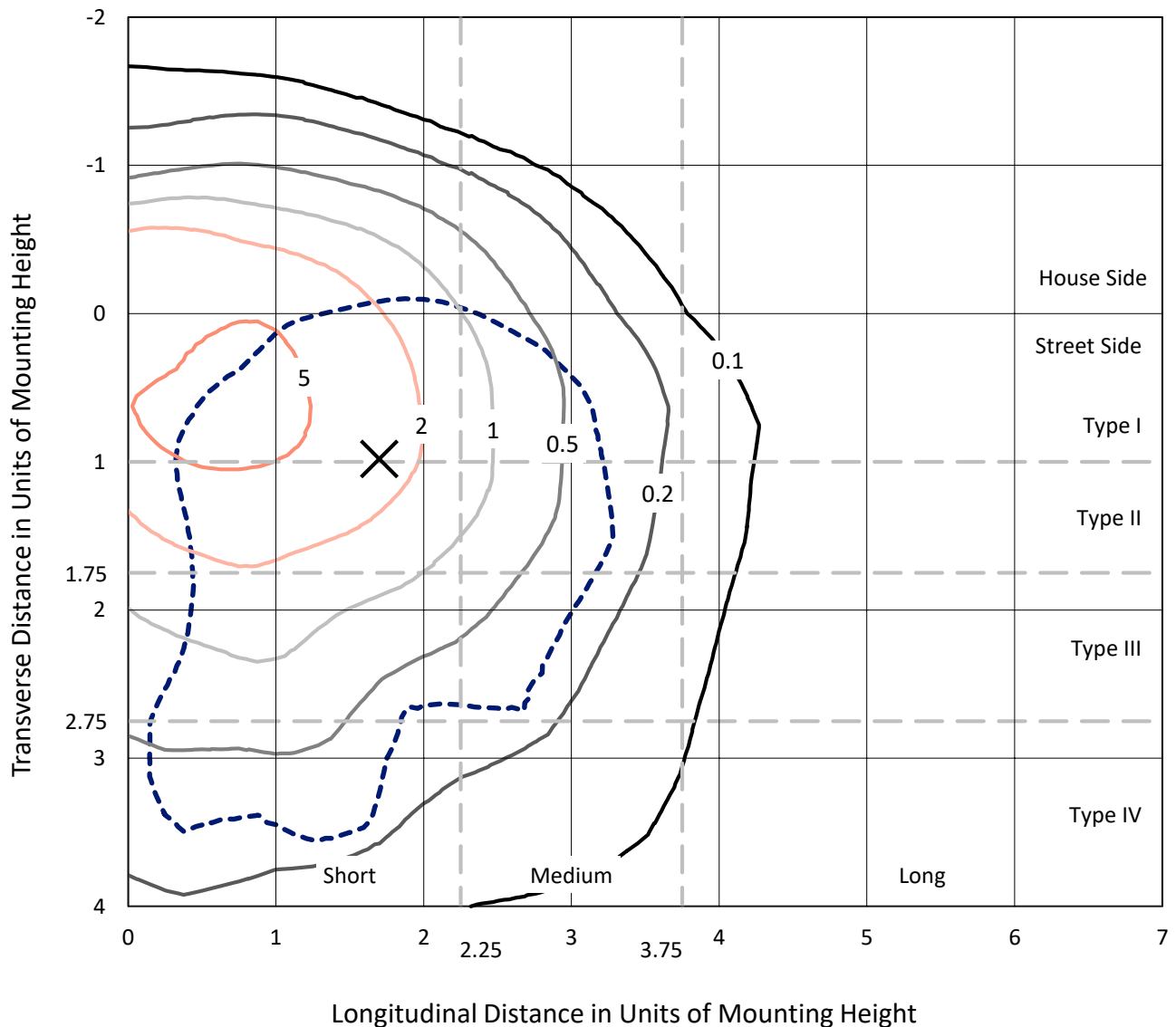
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145759
 CATALOG NUMBER: LDRL-SLL-E05-E-7030

Iso-Footcandle Lines of Horizontal Illumination

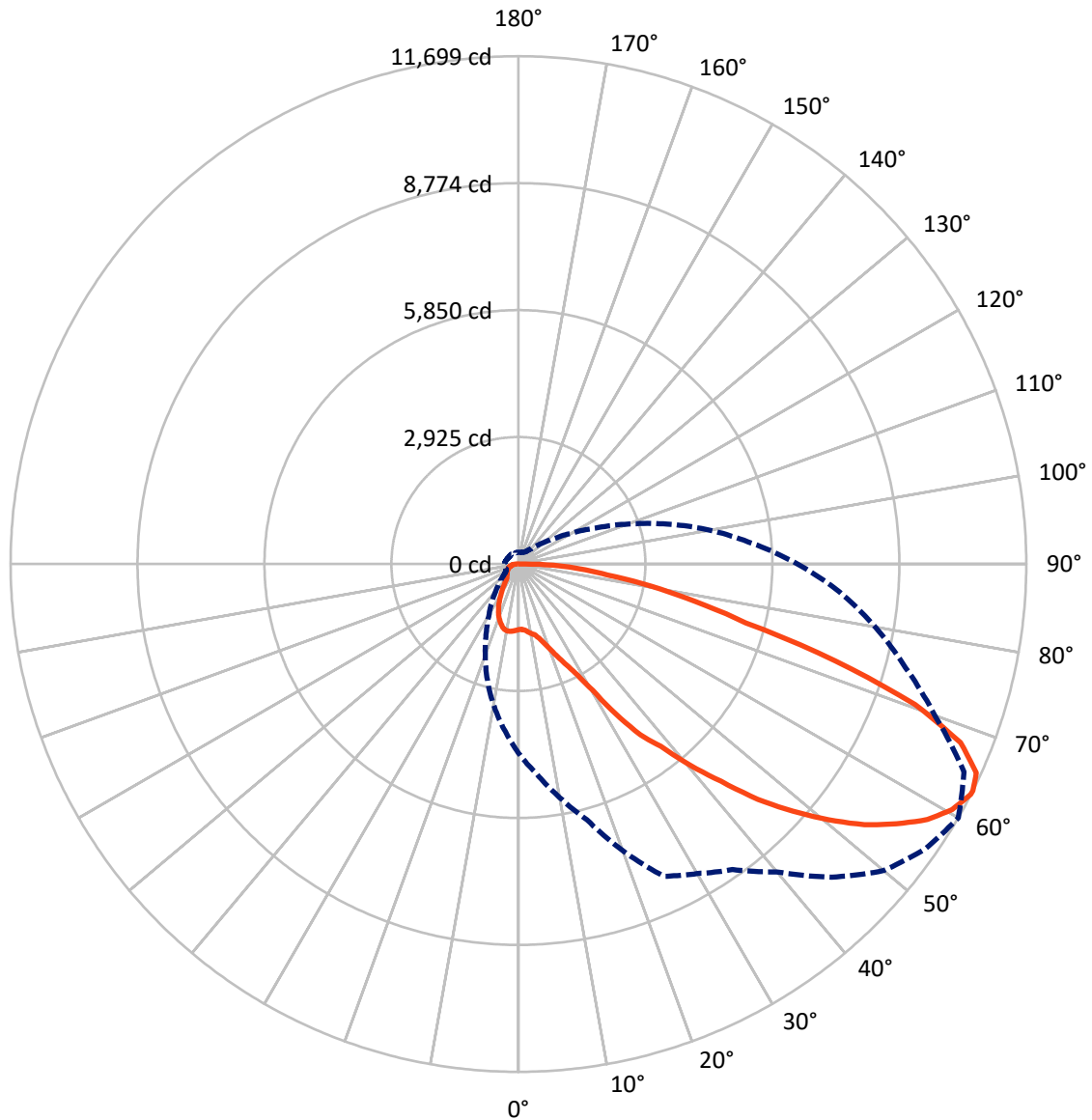
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145759
CATALOG NUMBER: LDRL-SLL-E05-E-7030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2574.8	0.0	2574.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9725.5	0.0	9725.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	12300.3	0.0	12300.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.2
10°-20°	463.1	3.8
20°-30°	818.9	6.7
30°-40°	1292.8	10.5
40°-50°	1901.1	15.5
50°-60°	2504.2	20.4
60°-70°	2791.2	22.7
70°-80°	1833.9	14.9
80°-90°	546.9	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°	12300.3	100.0
0°-180°	12300.3	100.0

Coefficient of Utilization



REPORT NUMBER: P145759

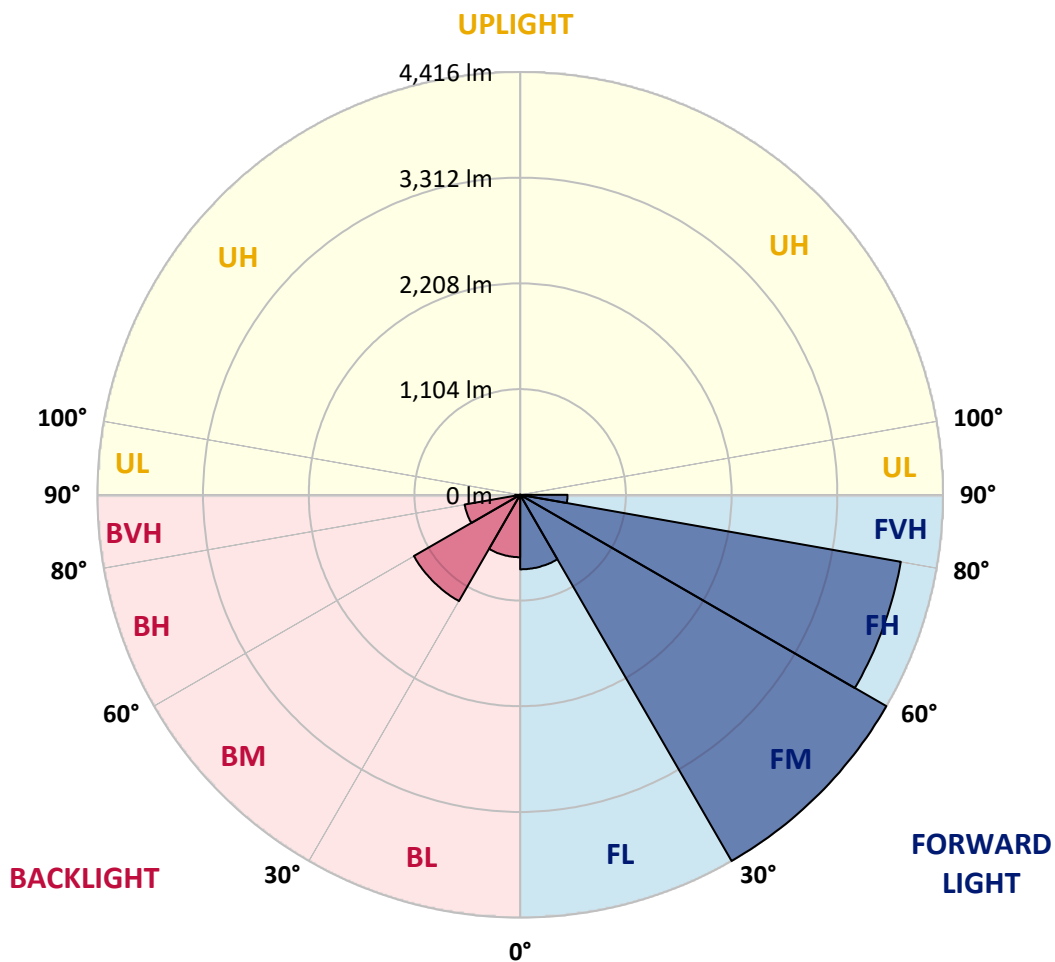
CATALOG NUMBER: LDRL-SLL-E05-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.5	6.3			
FM (30°-60°)	4416.1	35.9			
FH (60°-80°)	4036.6	32.8			G2/5000
FVH (80°-90°)	494.3	4.0			G3/500
BL (0°-30°)	651.8	5.3	B2/1000		
BM (30°-60°)	1281.9	10.4	B2/2500		
BH (60°-80°)	588.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	52.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1508.9	1509.8	1507.0	1506.1	1504.3	1505.2	1505.2	1503.4	1503.4	1504.3	1501.5
5°	1501.5	1503.4	1502.5	1504.3	1506.1	1508.9	1511.6	1514.3	1517.1	1520.7	1521.6
7.5°	1493.3	1498.8	1499.7	1505.2	1511.6	1518.9	1528.0	1538.1	1551.8	1555.4	1563.7
10°	1497.9	1507.9	1513.4	1524.4	1534.4	1548.1	1564.6	1574.6	1592.0	1598.4	1610.2
12.5°	1533.5	1540.8	1548.1	1560.9	1575.5	1592.9	1611.2	1626.7	1644.9	1651.3	1655.9
15°	1601.1	1608.4	1616.6	1629.4	1644.9	1666.0	1692.4	1711.6	1733.5	1750.0	1761.9
17.5°	1695.2	1695.2	1714.4	1718.0	1748.2	1780.1	1813.0	1850.4	1873.3	1887.0	1908.9
20°	1830.4	1830.4	1855.9	1867.8	1893.4	1934.5	1979.2	2020.3	2053.2	2080.6	2100.7
22.5°	2064.2	2054.1	2076.0	2073.3	2104.4	2165.6	2209.4	2232.2	2276.1	2292.5	2319.0
25°	2335.4	2371.1	2394.8	2394.8	2407.6	2470.6	2507.1	2524.5	2564.7	2552.8	2580.2
27.5°	2667.9	2763.8	2852.4	2888.9	2871.6	2941.0	2953.8	2970.2	2965.6	2937.3	2929.1
30°	2994.9	3163.8	3301.8	3385.8	3482.6	3616.9	3616.9	3638.8	3591.3	3512.7	3466.2
32.5°	3221.4	3438.8	3649.7	3824.2	3988.6	4194.1	4280.9	4401.4	4421.5	4451.7	4347.5
35°	3407.7	3712.8	3939.3	4201.4	4402.3	4610.6	4841.7	5050.8	5189.7	5166.8	5125.7
37.5°	3535.6	3927.4	4243.4	4551.2	4857.2	5095.6	5314.8	5587.9	5853.7	5906.6	5795.2
40°	3625.1	4079.0	4513.8	4891.9	5276.4	5634.5	5901.2	6194.3	6610.8	6787.1	6695.8
42.5°	3668.0	4197.8	4682.7	5164.1	5650.9	6103.0	6437.3	6839.2	7333.3	7634.7	7534.2
45°	3686.3	4270.8	4819.7	5367.8	5952.3	6510.4	6941.5	7397.2	7953.5	8437.5	8455.8
47.5°	3681.7	4310.1	4913.8	5513.0	6188.9	6838.3	7416.4	7933.4	8563.6	9072.3	9261.4
50°	3668.9	4323.8	4970.5	5600.7	6337.7	7078.5	7729.7	8344.4	9048.6	9692.5	9980.2
52.5°	3668.0	4326.5	4998.8	5649.1	6425.4	7225.5	7926.1	8652.2	9423.9	10097.1	10545.5
55°	3689.9	4343.0	5029.8	5682.9	6472.9	7308.6	8036.6	8844.9	9587.4	10351.9	10931.0
57.5°	3778.5	4419.7	5103.8	5740.4	6525.9	7374.4	8122.4	8900.6	9635.8	10457.9	11154.7
60°	3973.1	4563.1	5232.6	5846.4	6663.8	7547.0	8203.7	8822.1	9544.5	10427.7	11186.7
62.5°	4276.3	4793.3	5412.5	6041.8	6944.2	7874.9	8237.5	8642.1	9318.9	10254.2	11048.8
63°	4353.9	4854.5	5460.0	6095.7	7025.5	7937.0	8234.8	8594.6	9256.8	10203.0	10986.7
65°	4678.2	5137.6	5681.0	6353.3	7395.4	8134.3	8135.2	8315.1	8939.9	9920.8	10731.9
67.5°	5165.9	5604.3	6024.5	6693.0	7804.6	8232.9	7840.2	7704.1	8256.7	9323.5	10085.2
70°	5491.1	6032.7	6268.3	6782.5	7860.3	8113.3	7373.5	6919.5	7378.0	8269.5	8946.3
72.5°	5499.3	6116.7	6185.2	6400.8	7338.8	7541.5	6569.7	5955.0	6230.9	6978.9	7335.1
75°	4912.0	5688.3	5547.7	5468.2	5976.1	6062.8	5313.9	5058.1	5411.6	5853.7	5675.6
77.5°	3651.6	4683.7	4397.8	4059.8	4244.3	4257.1	4280.9	4763.1	5197.0	5377.8	5118.4
80°	2266.0	3440.6	3221.4	2664.2	2735.5	2945.6	3575.8	4427.9	4902.9	5032.6	4513.8
82.5°	1366.4	2530.9	2414.0	2033.1	2122.6	2646.0	3342.9	3578.5	3738.3	3726.5	3190.3
85°	1001.0	1718.9	1877.8	1906.2	2224.0	2569.3	2554.6	2380.2	2282.5	2008.5	1714.4
87.5°	315.1	886.9	1052.2	1226.6	1343.5	1271.4	1250.4	1080.5	773.6	654.0	718.8
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: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1501.5	1505.2	1507.0	1506.1	1507.0	1507.0	1512.5	1510.7	1512.5	1511.6	1517.1
5°	1524.4	1529.9	1534.4	1534.4	1535.3	1537.2	1544.5	1544.5	1548.1	1555.4	1559.1
7.5°	1569.1	1576.4	1577.4	1579.2	1584.7	1581.9	1586.5	1588.3	1591.1	1594.7	1599.3
10°	1615.7	1625.8	1625.8	1624.9	1625.8	1618.5	1621.2	1615.7	1616.6	1622.1	1627.6
12.5°	1667.8	1673.3	1669.6	1666.9	1666.9	1653.2	1651.3	1644.0	1640.4	1641.3	1643.1
15°	1771.9	1767.3	1766.4	1761.9	1745.4	1735.4	1728.1	1705.2	1693.4	1687.0	1676.0
17.5°	1910.7	1913.5	1908.9	1904.3	1880.6	1846.8	1832.2	1807.5	1791.1	1774.6	1754.5
20°	2113.5	2095.2	2093.4	2078.8	2045.9	1998.4	1962.8	1922.6	1899.8	1876.0	1855.0
22.5°	2337.3	2318.1	2305.3	2277.0	2228.6	2168.3	2108.9	2057.8	2023.1	2005.7	1991.1
25°	2585.7	2574.7	2553.7	2481.6	2443.2	2373.8	2308.9	2258.7	2219.4	2204.8	2179.3
27.5°	2883.4	2891.7	2852.4	2784.8	2736.4	2638.7	2583.0	2496.2	2463.3	2410.3	2377.5
30°	3426.0	3373.0	3306.3	3203.1	3105.4	2973.9	2881.6	2791.2	2742.8	2671.5	2583.9
32.5°	4312.8	4111.0	3932.0	3712.8	3505.4	3337.4	3204.0	3089.9	3015.9	2898.1	2749.2
35°	5028.0	4833.4	4537.5	4218.8	3946.6	3731.0	3563.0	3455.2	3307.2	3119.1	2903.5
37.5°	5552.3	5328.5	5051.7	4807.9	4511.0	4270.8	4043.4	3819.6	3611.4	3326.4	3051.5
40°	6403.5	6100.3	5644.5	5356.8	5113.8	4788.7	4575.9	4274.5	3957.5	3590.4	3192.2
42.5°	7245.6	6843.7	6430.9	6100.3	5755.0	5402.5	5110.2	4705.6	4284.5	3808.7	3318.2
45°	8223.8	7731.5	7191.7	6729.6	6375.2	5960.5	5586.1	5089.2	4552.1	3987.7	3427.8
47.5°	8994.7	8506.9	7897.7	7431.9	6954.2	6486.6	6000.7	5387.9	4751.2	4133.8	3530.1
50°	9733.6	9263.2	8615.6	8043.9	7495.0	6930.5	6343.2	5599.8	4907.4	4248.0	3611.4
52.5°	10396.7	9978.4	9278.7	8595.5	7981.8	7331.5	6603.5	5797.9	5057.2	4365.8	3675.3
55°	10958.4	10566.6	9939.1	9088.7	8391.9	7672.1	6849.2	5978.8	5215.2	4489.1	3721.9
57.5°	11335.6	11109.1	10438.7	9522.6	8728.9	7962.6	7034.6	6160.5	5363.2	4565.8	3742.0
60°	11511.0	11480.8	10913.6	9914.4	9028.5	8189.1	7268.4	6353.3	5460.9	4600.5	3713.7
62.5°	11474.4	11690.0	11275.3	10182.9	9219.4	8330.7	7418.2	6436.4	5436.3	4516.5	3588.6
63°	11440.6	11699.1	11326.5	10209.4	9234.9	8344.4	7432.8	6426.3	5413.4	4479.1	3545.6
65°	11193.1	11591.3	11339.2	10161.9	9163.6	8305.1	7367.1	6268.3	5186.0	4243.4	3302.7
67.5°	10586.6	10985.8	10846.0	9638.6	8702.4	7883.1	6907.7	5730.4	4628.9	3742.9	2852.4
70°	9334.4	9691.6	9524.4	8462.2	7592.7	7011.8	6084.7	4765.9	3771.2	3008.6	2171.0
72.5°	7383.5	7634.7	7671.2	6827.3	6161.5	5812.6	4902.0	3594.9	2754.7	2095.2	1409.3
75°	5467.3	5408.9	5420.7	4949.4	4678.2	4531.1	3664.4	2466.0	1855.9	1280.5	835.7
77.5°	4595.1	4174.9	3816.9	3686.3	3370.3	3278.9	2416.7	1513.4	1083.2	766.3	475.9
80°	3736.5	3099.9	2579.3	2348.2	2224.9	2243.2	1337.1	806.5	567.2	417.4	297.8
82.5°	2554.6	2070.6	1633.1	1418.4	1396.5	1417.5	695.1	395.5	299.6	240.2	187.2
85°	1510.7	1422.1	1269.6	1127.1	1077.8	1017.5	517.0	283.1	154.4	127.9	105.0
87.5°	653.0	801.9	821.1	817.4	760.8	611.0	190.0	73.1	64.8	32.9	26.5
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: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1517.1	1518.0	1516.2	1518.0	1524.4	1524.4	1523.5	1525.3	1526.2	1531.7	1529.9
5°	1562.7	1563.7	1564.6	1571.0	1575.5	1581.0	1579.2	1581.0	1584.7	1585.6	1587.4
7.5°	1604.8	1610.2	1617.5	1620.3	1628.5	1630.3	1638.6	1639.5	1641.3	1637.6	1634.0
10°	1634.0	1639.5	1648.6	1653.2	1667.8	1669.6	1676.0	1677.8	1681.5	1678.7	1676.0
12.5°	1648.6	1653.2	1663.2	1672.3	1692.4	1698.8	1709.8	1716.2	1720.8	1718.0	1708.9
15°	1678.7	1677.8	1683.3	1690.6	1708.9	1720.8	1736.3	1744.5	1750.0	1745.4	1733.5
17.5°	1748.2	1735.4	1735.4	1730.8	1744.5	1747.2	1753.6	1758.2	1756.4	1742.7	1723.5
20°	1844.1	1824.9	1813.0	1802.0	1797.5	1774.6	1762.8	1746.3	1731.7	1707.1	1685.1
22.5°	1968.3	1954.6	1927.2	1902.5	1867.8	1821.2	1771.0	1728.1	1696.1	1662.3	1624.9
25°	2156.4	2125.4	2086.1	2027.6	1982.9	1900.7	1816.7	1735.4	1666.9	1613.9	1550.9
27.5°	2333.6	2267.8	2193.9	2102.5	2020.3	1910.7	1803.9	1709.8	1620.3	1535.3	1463.2
30°	2481.6	2367.4	2246.8	2119.0	2002.1	1869.6	1745.4	1638.6	1537.2	1436.7	1368.2
32.5°	2593.0	2428.6	2267.8	2104.4	1960.0	1804.8	1662.3	1548.1	1433.0	1327.1	1247.6
35°	2693.5	2471.5	2261.5	2065.1	1894.3	1722.6	1569.1	1441.3	1315.2	1202.0	1110.6
37.5°	2765.6	2486.1	2234.1	2008.5	1810.3	1622.1	1455.9	1319.8	1184.6	1069.5	969.1
40°	2821.3	2478.8	2182.0	1921.7	1695.2	1499.7	1337.1	1194.7	1059.5	944.4	839.4
42.5°	2858.8	2451.4	2103.4	1823.0	1599.3	1394.7	1235.8	1086.0	950.8	830.2	714.2
45°	2907.2	2440.5	2055.0	1749.1	1512.5	1306.1	1136.2	990.1	849.4	723.4	612.9
47.5°	2952.9	2434.1	2015.8	1687.9	1434.0	1225.7	1057.7	904.2	762.6	639.3	538.9
50°	2980.3	2424.0	1974.7	1613.9	1346.3	1143.5	982.8	827.5	685.0	567.2	477.7
52.5°	2988.5	2403.9	1920.8	1529.9	1270.5	1073.2	906.0	750.8	613.8	507.8	424.7
55°	2982.1	2364.7	1847.7	1461.4	1192.8	995.6	828.4	677.7	553.5	453.9	387.3
57.5°	2951.0	2286.1	1753.6	1374.6	1104.2	897.8	733.4	595.5	485.0	405.5	354.4
60°	2881.6	2172.9	1638.6	1253.1	977.3	781.8	626.6	507.8	414.7	357.1	323.3
62.5°	2730.0	2009.4	1471.4	1081.4	807.4	627.5	492.3	404.6	341.6	311.5	291.4
63°	2685.2	1952.7	1422.1	1035.7	778.2	592.8	462.2	382.7	326.1	301.4	285.0
65°	2449.6	1691.5	1202.0	833.0	602.8	449.4	352.6	300.5	270.4	261.2	256.7
67.5°	2007.5	1316.1	845.8	559.0	404.6	310.5	260.3	240.2	229.3	228.3	231.1
70°	1418.4	873.2	523.3	358.0	278.6	234.7	215.6	206.4	200.9	202.8	208.2
72.5°	922.5	512.4	330.6	262.1	226.5	206.4	192.7	190.0	188.2	186.3	188.2
75°	487.7	320.6	250.3	219.2	198.2	181.8	172.6	169.0	169.9	169.9	169.9
77.5°	302.3	243.9	213.7	193.6	177.2	160.7	151.6	148.9	149.8	151.6	152.5
80°	232.0	212.8	188.2	173.5	149.8	136.1	131.5	130.6	132.4	132.4	135.2
82.5°	169.9	164.4	155.3	137.0	118.7	109.6	108.7	112.3	108.7	107.8	109.6
85°	99.6	93.2	101.4	86.8	79.5	74.0	77.6	84.9	88.6	84.0	82.2
87.5°	32.0	21.9	32.0	35.6	32.0	27.4	34.7	41.1	42.0	40.2	45.7
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: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1528.9	1535.3	1528.9	1531.7	1530.8	1528.9	1531.7	1528.0	1526.2	1531.7	1530.8
5°	1586.5	1587.4	1579.2	1580.1	1579.2	1571.9	1571.9	1568.2	1563.7	1564.6	1562.7
7.5°	1633.1	1631.2	1624.9	1622.1	1613.9	1608.4	1604.8	1599.3	1595.6	1592.0	1590.1
10°	1668.7	1664.1	1659.6	1651.3	1643.1	1638.6	1628.5	1620.3	1617.5	1612.1	1608.4
12.5°	1699.7	1691.5	1684.2	1674.2	1664.1	1656.8	1644.9	1638.6	1634.0	1626.7	1621.2
15°	1717.1	1701.6	1687.9	1672.3	1661.4	1650.4	1636.7	1634.0	1627.6	1620.3	1610.2
17.5°	1696.1	1674.2	1648.6	1632.2	1615.7	1599.3	1585.6	1585.6	1582.8	1574.6	1557.3
20°	1653.2	1620.3	1590.1	1563.7	1547.2	1523.5	1515.2	1502.5	1493.3	1478.7	1456.8
22.5°	1582.8	1548.1	1508.9	1482.4	1454.1	1427.6	1411.1	1391.0	1383.7	1360.0	1330.8
25°	1504.3	1454.1	1412.0	1377.3	1338.1	1307.0	1284.2	1256.8	1238.5	1215.7	1179.1
27.5°	1411.1	1359.1	1311.6	1273.2	1232.1	1189.2	1147.2	1115.2	1082.3	1055.8	1034.8
30°	1310.7	1256.8	1198.3	1153.6	1106.1	1052.2	1017.5	974.5	949.0	919.7	892.3
32.5°	1179.1	1131.6	1063.1	1011.1	952.6	910.6	882.3	841.2	811.1	786.4	770.9
35°	1034.8	963.6	895.1	855.8	815.6	781.8	742.6	710.6	690.5	664.9	651.2
37.5°	877.7	794.6	736.2	701.5	660.4	643.9	619.3	600.1	581.8	564.5	553.5
40°	737.1	660.4	607.4	578.2	550.8	532.5	517.0	508.7	496.9	483.2	474.9
42.5°	620.2	559.0	506.9	479.5	458.5	456.7	446.6	440.2	435.7	427.4	414.7
45°	528.8	473.1	428.4	406.4	397.3	398.2	398.2	392.7	392.7	390.0	381.8
47.5°	467.6	417.4	384.5	369.9	366.3	367.2	364.4	362.6	363.5	362.6	358.0
50°	420.1	377.2	349.8	344.3	343.4	342.5	338.9	336.1	335.2	337.0	336.1
52.5°	371.7	336.1	320.6	318.8	319.7	319.7	318.8	317.8	319.7	321.5	318.8
55°	344.3	318.8	308.7	308.7	308.7	308.7	307.8	306.9	309.6	312.4	307.8
57.5°	318.8	300.5	296.8	296.8	296.8	295.0	295.0	295.9	299.6	305.1	299.6
60°	299.6	290.4	290.4	291.4	290.4	286.8	284.1	284.1	288.6	295.9	291.4
62.5°	281.3	276.7	278.6	277.7	275.8	271.3	267.6	267.6	273.1	280.4	282.2
63°	276.7	273.1	274.9	274.0	272.2	268.5	264.9	264.9	269.4	276.7	279.5
65°	256.7	257.6	258.5	259.4	258.5	257.6	253.0	251.2	254.8	260.3	264.0
67.5°	232.9	234.7	236.6	241.1	239.3	239.3	236.6	234.7	235.6	238.4	241.1
70°	211.0	212.8	215.6	217.4	218.3	219.2	217.4	214.6	215.6	216.5	218.3
72.5°	190.0	191.8	193.6	197.3	197.3	197.3	195.5	193.6	194.5	196.4	198.2
75°	170.8	171.7	173.5	176.3	177.2	175.4	175.4	173.5	174.4	177.2	179.0
77.5°	151.6	149.8	150.7	152.5	155.3	155.3	156.2	155.3	157.1	158.9	160.7
80°	129.7	127.9	126.0	127.0	130.6	135.2	139.7	139.7	142.5	143.4	146.1
82.5°	103.2	101.4	100.5	103.2	102.3	108.7	118.7	124.2	127.9	131.5	133.3
85°	80.4	75.8	77.6	77.6	75.8	85.9	95.0	102.3	103.2	108.7	109.6
87.5°	47.5	45.7	43.8	42.0	48.4	58.5	66.7	69.4	71.2	74.0	76.7
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: P145759

CATALOG NUMBER: LDRL-SLL-E05-E-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1523.5	1530.8	1528.9	1528.0	1528.9	1528.0	1525.3	1526.2	1524.4	1525.3	1523.5
5°	1552.7	1556.3	1553.6	1549.0	1549.0	1542.6	1538.1	1534.4	1529.9	1528.0	1524.4
7.5°	1581.0	1578.3	1574.6	1566.4	1561.8	1553.6	1547.2	1539.9	1535.3	1529.9	1523.5
10°	1598.4	1592.9	1585.6	1575.5	1562.7	1555.4	1546.3	1535.3	1529.9	1527.1	1520.7
12.5°	1606.6	1592.0	1580.1	1561.8	1543.6	1529.9	1519.8	1508.9	1506.1	1502.5	1497.9
15°	1587.4	1566.4	1536.3	1511.6	1487.8	1468.7	1460.4	1448.6	1445.8	1444.9	1444.0
17.5°	1522.6	1490.6	1461.4	1428.5	1407.5	1390.1	1382.8	1380.1	1375.5	1373.7	1374.6
20°	1418.4	1391.0	1361.8	1350.8	1326.2	1321.6	1310.7	1303.4	1295.1	1292.4	1287.8
22.5°	1297.0	1263.2	1244.9	1236.7	1226.6	1202.9	1197.4	1190.1	1179.1	1170.9	1169.1
25°	1155.4	1128.0	1127.1	1107.9	1099.7	1086.9	1072.3	1063.1	1056.7	1046.7	1039.4
27.5°	1011.1	1001.0	983.7	969.1	963.6	956.3	934.4	929.8	922.5	914.3	906.0
30°	876.8	869.5	853.1	839.4	831.1	816.5	795.5	797.4	782.7	771.8	764.5
32.5°	746.2	740.7	725.2	721.5	695.1	687.8	665.8	649.4	634.8	623.8	614.7
35°	628.4	613.8	614.7	598.2	583.6	561.7	538.9	517.9	506.0	500.5	492.3
37.5°	543.4	529.7	516.0	497.8	481.3	465.8	452.1	445.7	438.4	440.2	441.1
40°	466.7	456.7	446.6	433.8	423.8	417.4	413.7	413.7	414.7	419.2	422.9
42.5°	411.9	403.7	398.2	393.7	395.5	395.5	398.2	402.8	407.4	413.7	417.4
45°	375.4	370.8	369.0	370.8	376.3	380.9	387.3	394.6	401.9	408.3	411.0
47.5°	353.5	350.7	350.7	355.3	363.5	370.8	380.9	388.2	396.4	401.9	403.7
50°	329.7	328.8	328.8	332.5	339.8	348.9	358.9	366.3	373.6	378.1	380.0
52.5°	316.0	313.3	312.4	316.9	323.3	332.5	342.5	349.8	355.3	358.9	359.9
55°	304.1	301.4	299.6	305.1	312.4	320.6	332.5	340.7	346.2	350.7	354.4
57.5°	294.1	291.4	289.5	295.9	303.2	313.3	323.3	332.5	339.8	345.2	348.9
60°	285.9	282.2	280.4	287.7	295.0	305.1	315.1	325.2	335.2	341.6	343.4
62.5°	275.8	273.1	270.4	274.9	278.6	285.9	295.0	305.1	314.2	320.6	320.6
63°	273.1	272.2	268.5	272.2	275.8	282.2	291.4	300.5	309.6	316.9	316.0
65°	261.2	261.2	259.4	263.0	266.7	273.1	280.4	290.4	298.7	304.1	305.1
67.5°	242.0	243.0	244.8	248.4	255.7	262.1	270.4	279.5	286.8	290.4	292.3
70°	220.1	221.9	225.6	231.1	237.5	243.0	248.4	257.6	264.0	267.6	269.4
72.5°	199.1	203.7	206.4	211.0	214.6	220.1	224.7	233.8	239.3	242.0	246.6
75°	179.9	183.6	185.4	188.2	191.8	193.6	199.1	202.8	210.1	213.7	219.2
77.5°	161.7	163.5	166.2	170.8	171.7	174.4	176.3	181.8	185.4	189.1	193.6
80°	145.2	147.0	150.7	153.4	154.4	156.2	157.1	156.2	155.3	152.5	156.2
82.5°	130.6	132.4	137.0	139.7	142.5	142.5	141.6	131.5	127.0	128.8	131.5
85°	107.8	109.6	114.2	119.6	120.6	119.6	120.6	110.5	104.1	101.4	104.1
87.5°	67.6	65.8	81.3	88.6	83.1	84.9	85.9	80.4	74.9	63.9	66.7
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: P145759
 CATALOG NUMBER: LDRL-SLL-E05-E-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	0°
2.5°	1525.3	1518.9	1519.8	1521.6	1521.6	1524.4	1520.7	1516.2	1518.9	1514.3	1513.4	2.5°
5°	1524.4	1516.2	1516.2	1518.0	1516.2	1518.0	1515.2	1510.7	1513.4	1507.9	1507.0	5°
7.5°	1520.7	1516.2	1518.0	1519.8	1517.1	1518.0	1517.1	1510.7	1511.6	1508.9	1502.5	7.5°
10°	1518.9	1516.2	1519.8	1525.3	1525.3	1526.2	1523.5	1516.2	1511.6	1508.9	1503.4	10°
12.5°	1499.7	1503.4	1510.7	1523.5	1528.0	1535.3	1539.0	1535.3	1537.2	1533.5	1531.7	12.5°
15°	1444.9	1454.1	1465.9	1485.1	1498.8	1515.2	1535.3	1544.5	1561.8	1575.5	1584.7	15°
17.5°	1379.2	1385.6	1398.3	1420.3	1437.6	1470.5	1497.9	1528.9	1562.7	1599.3	1631.2	17.5°
20°	1297.9	1293.3	1313.4	1337.1	1367.3	1403.8	1444.0	1490.6	1546.3	1604.8	1660.5	20°
22.5°	1178.2	1178.2	1199.2	1227.5	1264.1	1306.1	1361.8	1412.0	1485.1	1570.0	1652.3	22.5°
25°	1041.2	1044.0	1058.6	1090.5	1116.1	1176.4	1228.5	1293.3	1381.0	1474.1	1583.7	25°
27.5°	895.1	913.4	909.7	943.5	977.3	1036.7	1107.9	1173.7	1271.4	1370.9	1496.1	27.5°
30°	762.6	759.9	759.0	799.2	833.0	886.9	945.3	1028.4	1127.1	1254.9	1399.3	30°
32.5°	598.2	608.3	615.6	639.3	675.9	726.1	789.1	875.9	994.6	1123.4	1286.0	32.5°
35°	494.1	496.9	506.9	520.6	552.6	594.6	660.4	737.1	841.2	974.5	1147.2	35°
37.5°	443.0	445.7	456.7	469.5	492.3	523.3	568.1	627.5	723.4	847.6	1008.3	37.5°
40°	426.5	429.3	435.7	447.5	468.5	495.0	530.7	576.3	645.7	742.6	883.2	40°
42.5°	419.2	419.2	420.1	429.3	450.3	481.3	519.7	560.8	611.9	685.0	799.2	42.5°
45°	411.0	411.0	410.1	416.5	432.9	468.5	515.1	565.4	621.1	684.1	773.6	45°
47.5°	403.7	401.9	400.0	402.8	416.5	453.0	506.9	568.1	639.3	717.9	808.3	47.5°
50°	378.1	378.1	377.2	378.1	390.9	429.3	491.4	565.4	655.8	757.2	866.8	50°
52.5°	359.9	360.8	361.7	361.7	371.7	411.0	479.5	566.3	674.1	795.5	934.4	52.5°
55°	355.3	357.1	357.1	355.3	363.5	399.1	468.5	563.5	686.8	838.5	1006.5	55°
57.5°	349.8	350.7	351.6	349.8	355.3	386.3	453.0	550.8	683.2	854.9	1060.4	57.5°
60°	342.5	338.9	337.9	335.2	338.9	363.5	425.6	523.3	661.3	847.6	1078.7	60°
62.5°	322.4	319.7	316.9	314.2	316.9	335.2	395.5	489.6	624.7	818.4	1064.1	62.5°
63°	317.8	316.0	313.3	310.5	310.5	330.6	385.4	481.3	615.6	810.1	1058.6	63°
65°	305.1	304.1	302.3	299.6	298.7	314.2	362.6	443.9	572.7	773.6	1023.9	65°
67.5°	290.4	290.4	289.5	285.9	281.3	290.4	324.2	388.2	497.8	679.5	938.0	67.5°
70°	269.4	269.4	268.5	266.7	261.2	267.6	289.5	331.5	410.1	555.3	786.4	70°
72.5°	248.4	248.4	251.2	250.3	251.2	252.1	263.0	285.9	333.4	432.0	594.6	72.5°
75°	221.0	225.6	226.5	228.3	229.3	228.3	233.8	247.5	274.9	331.5	433.8	75°
77.5°	198.2	204.6	203.7	201.9	200.9	201.9	200.9	207.3	227.4	263.0	321.5	77.5°
80°	163.5	169.9	169.9	169.0	167.1	169.0	167.1	173.5	190.0	221.0	255.7	80°
82.5°	134.3	138.8	141.6	143.4	141.6	148.9	148.9	147.0	159.8	187.2	215.6	82.5°
85°	107.8	112.3	115.1	118.7	120.6	118.7	117.8	116.0	123.3	145.2	164.4	85°
87.5°	68.5	72.2	72.2	73.1	73.1	75.8	70.3	63.9	58.5	83.1	86.8	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: P145759

NUMBER: LDRL-SLL-E05-E-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
1510.7	1510.7	1511.6	1508.9	1511.6	1511.6	1508.9
1504.3	1502.5	1502.5	1501.5	1503.4	1502.5	1501.5
1498.8	1498.8	1495.2	1492.4	1491.5	1495.2	1493.3
1497.0	1495.2	1494.2	1492.4	1493.3	1496.1	1497.9
1529.9	1523.5	1525.3	1524.4	1525.3	1528.0	1533.5
1590.1	1590.1	1594.7	1584.7	1589.2	1593.8	1601.1
1657.7	1674.2	1682.4	1681.5	1683.3	1687.0	1695.2
1715.3	1767.3	1803.9	1813.0	1837.7	1843.1	1830.4
1740.8	1834.0	1916.2	1971.0	2032.2	2056.9	2064.2
1688.8	1823.0	1958.2	2084.3	2204.8	2274.2	2335.4
1634.9	1793.8	1973.8	2161.9	2358.3	2535.5	2667.9
1560.0	1770.1	2013.0	2266.9	2527.2	2773.8	2994.9
1477.8	1731.7	2016.7	2325.4	2646.9	2953.8	3221.4
1360.0	1642.2	1958.2	2316.3	2688.9	3073.4	3407.7
1224.8	1499.7	1854.1	2263.3	2686.2	3134.6	3535.6
1080.5	1361.8	1734.5	2172.9	2650.5	3153.8	3625.1
971.8	1250.4	1615.7	2087.0	2597.6	3141.0	3668.0
916.1	1154.5	1518.9	2003.0	2538.2	3110.0	3686.3
927.1	1128.9	1461.4	1933.6	2485.2	3076.2	3681.7
988.2	1167.3	1460.4	1908.0	2451.4	3045.1	3668.9
1080.5	1254.0	1513.4	1938.1	2469.7	3042.4	3668.0
1184.6	1375.5	1641.3	2019.4	2547.3	3091.7	3689.9
1285.1	1523.5	1805.7	2201.2	2694.4	3215.0	3778.5
1344.5	1658.6	2016.7	2457.8	2920.9	3431.5	3973.1
1358.2	1739.9	2203.9	2709.9	3231.4	3744.7	4276.3
1357.2	1748.2	2235.9	2762.0	3294.5	3816.9	4353.9
1336.2	1764.6	2321.7	2933.7	3547.5	4126.5	4678.2
1270.5	1735.4	2369.2	3093.5	3798.6	4468.1	5165.9
1119.8	1602.0	2313.5	3145.6	3948.4	4694.6	5491.1
876.8	1321.6	1997.5	2875.2	3745.6	4491.9	5499.3
616.5	934.4	1537.2	2361.0	3061.6	3795.9	4912.0
429.3	605.6	998.3	1588.3	2209.4	2769.3	3651.6
314.2	402.8	598.2	949.9	1340.8	1730.8	2266.0
242.0	290.4	382.7	573.6	757.2	969.1	1366.4
169.9	191.8	236.6	354.4	507.8	693.2	1001.0
74.0	86.8	114.2	209.2	343.4	330.6	315.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)