

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: P146077

Luminaire Tested: **LDRL-SLR-F06-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146077
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-SLR-F06-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13689.3 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

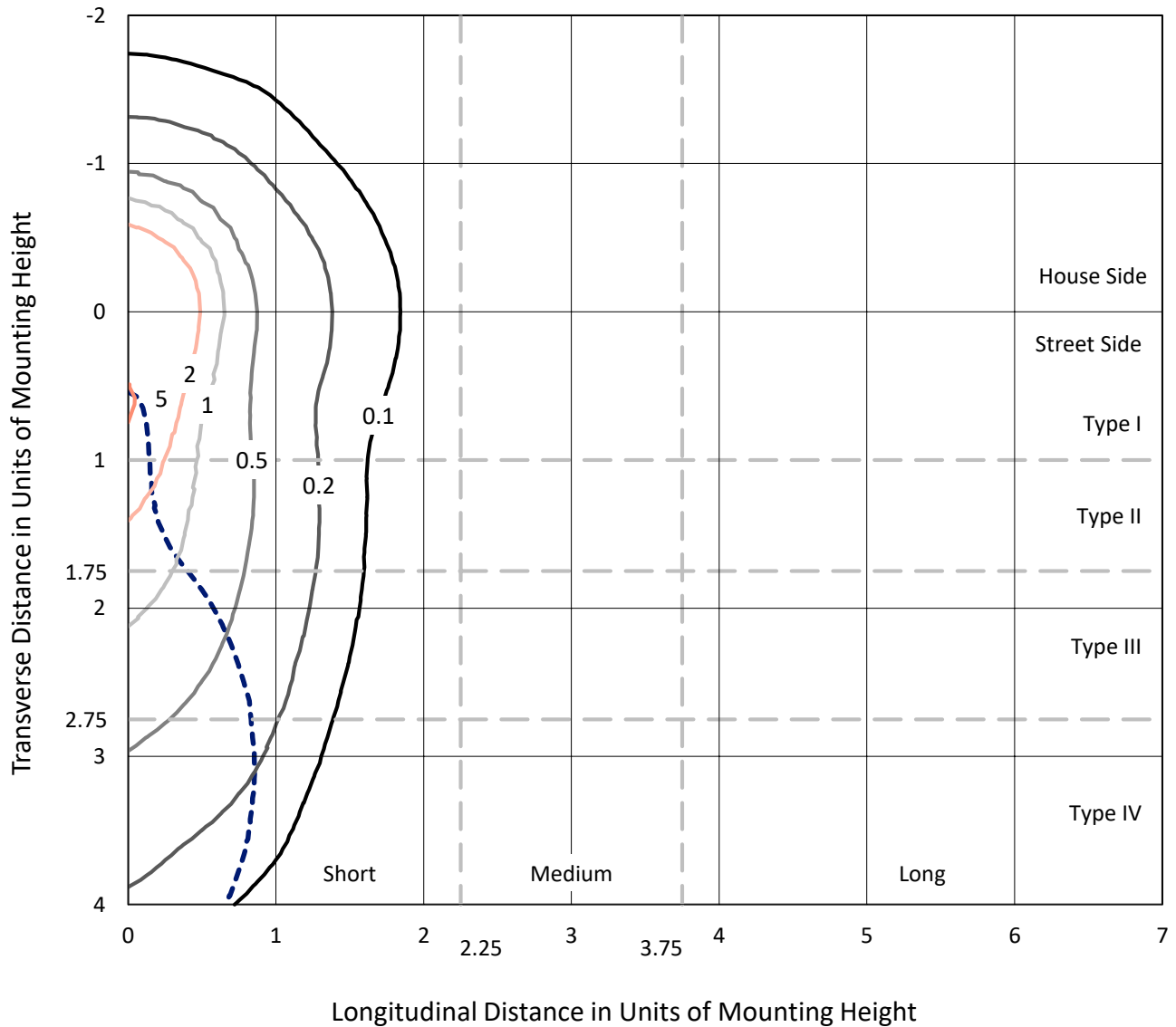
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

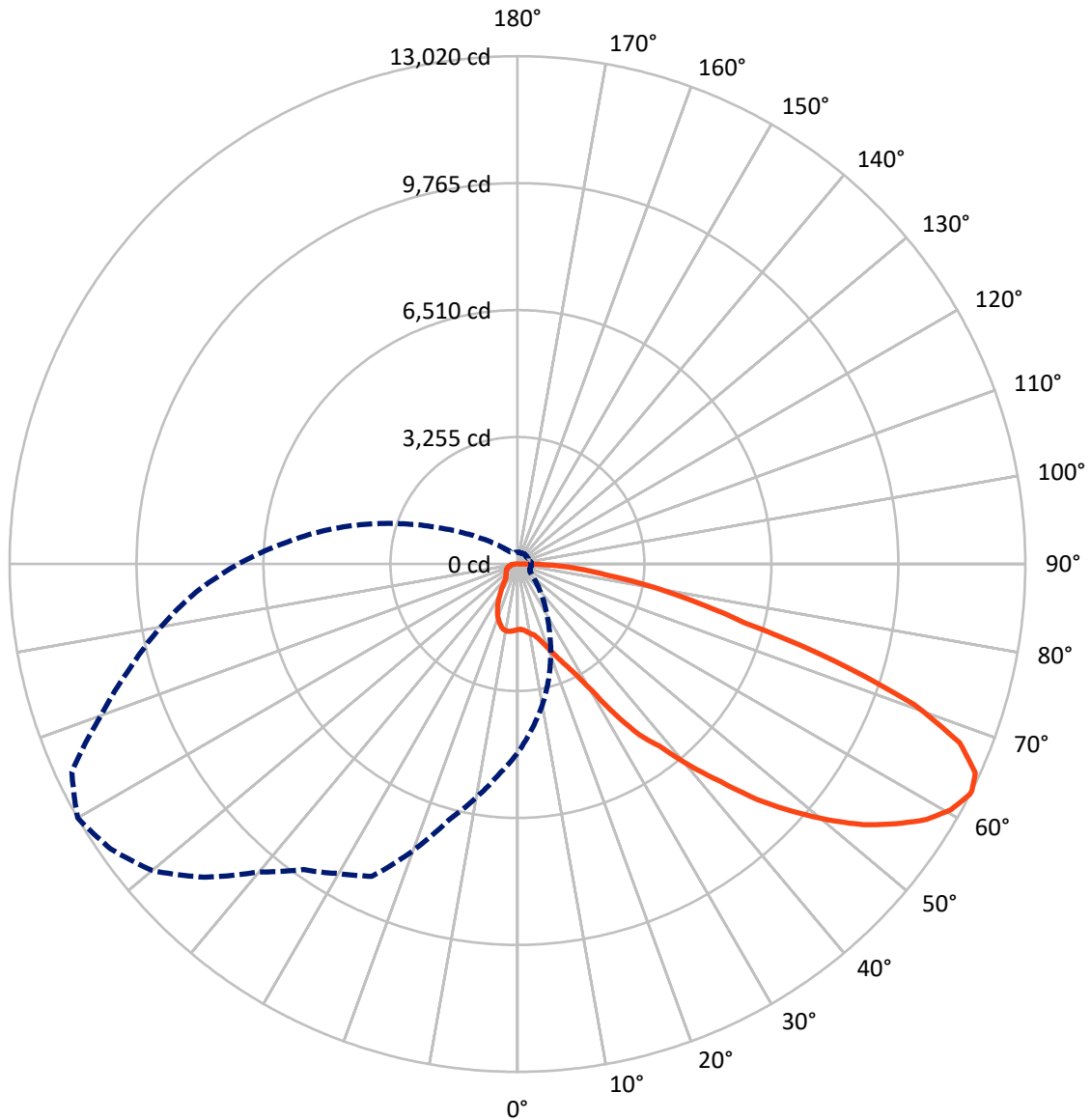
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2865.6	0.0	2865.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10823.7	0.0	10823.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	13689.3	0.0	13689.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.2
10°-20°	515.4	3.8
20°-30°	911.4	6.7
30°-40°	1438.8	10.5
40°-50°	2115.7	15.5
50°-60°	2787.0	20.4
60°-70°	3106.4	22.7
70°-80°	2041.0	14.9
80°-90°	608.6	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°	13689.3	100.0
0°-180°	13689.3	100.0



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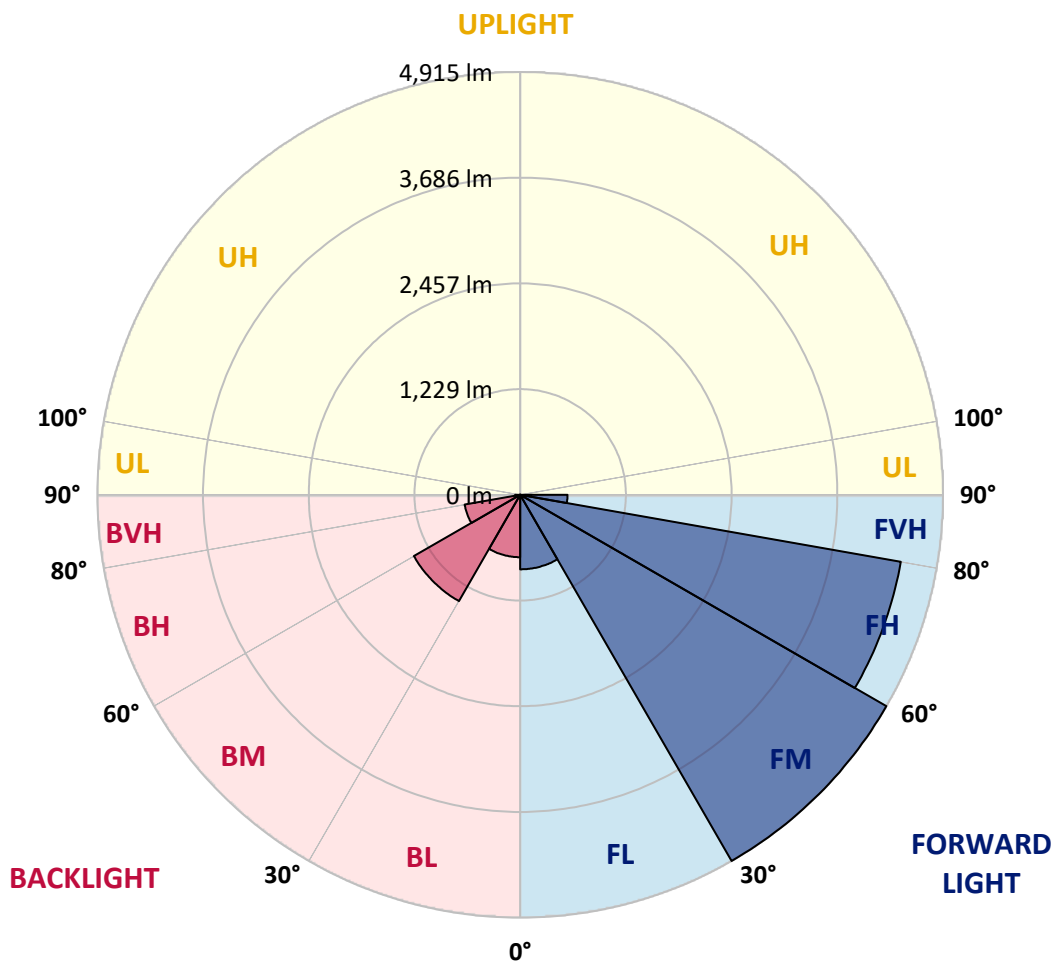
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	866.4	6.3			
FM	(30°-60°)	4914.8	35.9			
FH	(60°-80°)	4492.4	32.8			G2/5000
FVH	(80°-90°)	550.1	4.0			G4/750
BL	(0°-30°)	725.4	5.3	B2/1000		
BM	(30°-60°)	1426.7	10.4	B2/2500		
BH	(60°-80°)	654.9	4.8	B2/1000		G2/1000
BVH	(80°-90°)	58.6	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1679.2	1682.3	1682.3	1679.2	1682.3	1681.3	1681.3	1684.3	1685.3	1690.4	1687.4
5°	1671.1	1672.1	1673.1	1671.1	1672.1	1672.1	1674.2	1677.2	1678.2	1684.3	1681.3
7.5°	1662.0	1664.0	1659.9	1660.9	1664.0	1668.1	1668.1	1672.1	1679.2	1682.3	1681.3
10°	1667.0	1665.0	1662.0	1660.9	1663.0	1664.0	1666.0	1673.1	1679.2	1682.3	1687.4
12.5°	1706.7	1700.6	1697.5	1696.5	1697.5	1695.5	1702.6	1704.7	1706.7	1710.8	1708.7
15°	1781.9	1773.8	1768.7	1763.6	1774.8	1769.7	1769.7	1763.6	1753.4	1738.2	1718.9
17.5°	1886.6	1877.5	1873.4	1871.4	1872.4	1863.2	1844.9	1815.5	1779.9	1739.2	1701.6
20°	2037.0	2051.3	2045.2	2017.7	2007.6	1966.9	1909.0	1848.0	1786.0	1720.9	1658.9
22.5°	2297.3	2289.1	2261.7	2193.6	2132.6	2041.1	1937.4	1838.8	1747.3	1652.8	1571.5
25°	2599.2	2531.1	2453.8	2319.6	2179.4	2028.9	1879.5	1762.6	1640.6	1536.9	1439.4
27.5°	2969.2	2821.8	2624.6	2406.0	2196.6	1996.4	1819.5	1665.0	1525.8	1415.0	1306.2
30°	3333.1	3087.1	2812.6	2522.9	2240.3	1970.0	1736.2	1557.3	1396.7	1254.3	1144.6
32.5°	3585.2	3287.3	2945.8	2588.0	2244.4	1927.3	1644.7	1431.2	1250.3	1107.0	974.8
35°	3792.5	3420.5	2992.5	2577.8	2179.4	1827.7	1513.6	1276.7	1084.6	936.2	820.3
37.5°	3934.8	3488.6	2989.5	2518.9	2063.5	1669.1	1363.1	1122.2	943.3	805.1	698.3
40°	4034.5	3509.9	2949.9	2418.2	1930.3	1515.6	1202.5	982.9	826.4	718.7	641.4
42.5°	4082.2	3495.7	2890.9	2322.7	1798.2	1391.6	1081.5	889.4	762.4	681.0	624.1
45°	4102.6	3461.2	2824.8	2229.2	1690.4	1284.8	1019.5	861.0	761.4	691.2	629.2
47.5°	4097.5	3423.5	2765.9	2151.9	1626.4	1256.4	1031.7	899.6	799.0	711.5	632.3
50°	4083.2	3389.0	2728.3	2123.4	1625.4	1299.1	1099.8	964.6	842.7	729.8	629.2
52.5°	4082.2	3385.9	2748.6	2157.0	1684.3	1395.6	1202.5	1039.9	885.4	750.2	630.2
55°	4106.6	3440.8	2835.0	2247.5	1826.6	1530.8	1318.4	1120.2	933.1	764.4	627.2
57.5°	4205.2	3578.0	2998.6	2449.7	2009.6	1695.5	1430.2	1180.1	951.4	760.3	612.9
60°	4421.7	3819.0	3250.7	2735.4	2244.4	1845.9	1496.3	1200.5	943.3	735.9	582.4
62.5°	4759.2	4167.6	3596.3	3015.9	2452.8	1936.4	1511.5	1184.2	910.8	695.3	544.8
63°	4845.6	4247.9	3666.5	3073.9	2488.4	1945.6	1510.5	1178.1	901.6	685.1	535.7
65°	5206.5	4592.5	3948.1	3265.0	2583.9	1963.9	1487.1	1139.5	861.0	637.3	494.0
67.5°	5749.3	4972.7	4227.6	3442.9	2636.8	1931.3	1413.9	1043.9	756.3	554.0	432.0
70°	6111.1	5224.8	4394.3	3500.8	2574.8	1782.9	1246.2	875.2	618.0	456.4	369.0
72.5°	6120.3	4999.1	4168.6	3199.9	2223.1	1470.9	975.8	661.7	480.8	371.0	318.2
75°	5466.7	4224.5	3407.3	2627.6	1710.8	1039.9	686.1	482.8	369.0	306.0	275.5
77.5°	4063.9	3082.0	2458.9	1767.7	1111.0	673.9	477.8	357.8	292.7	253.1	230.7
80°	2521.9	1926.2	1492.2	1057.2	665.8	448.3	349.7	284.6	246.0	211.4	193.1
82.5°	1520.7	1078.5	842.7	638.4	425.9	323.2	269.4	239.9	208.4	177.9	163.7
85°	1114.1	771.5	565.2	394.4	263.3	213.5	189.1	183.0	161.6	137.2	129.1
87.5°	350.7	368.0	382.2	232.8	127.1	96.6	82.3	96.6	92.5	65.1	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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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1692.5	1696.5	1693.5	1693.5	1691.4	1690.4	1697.5	1695.5	1697.5	1696.5	1698.6
5°	1686.4	1689.4	1687.4	1689.4	1687.4	1687.4	1696.5	1696.5	1700.6	1702.6	1707.7
7.5°	1688.4	1689.4	1688.4	1691.4	1689.4	1687.4	1692.5	1695.5	1702.6	1708.7	1713.8
10°	1695.5	1698.6	1697.5	1697.5	1691.4	1687.4	1690.4	1692.5	1699.6	1702.6	1708.7
12.5°	1712.8	1708.7	1700.6	1695.5	1681.3	1673.1	1669.1	1667.0	1672.1	1676.2	1679.2
15°	1708.7	1686.4	1668.1	1652.8	1631.5	1618.3	1608.1	1607.1	1608.1	1609.1	1612.2
17.5°	1667.0	1636.6	1600.0	1580.6	1556.2	1542.0	1534.9	1529.8	1528.8	1530.8	1535.9
20°	1607.1	1562.3	1521.7	1488.1	1461.7	1439.4	1444.4	1433.3	1438.3	1441.4	1450.5
22.5°	1515.6	1453.6	1406.8	1366.2	1334.7	1311.3	1311.3	1301.1	1303.1	1312.3	1324.5
25°	1367.2	1309.2	1242.2	1213.7	1178.1	1161.8	1158.8	1156.8	1164.9	1176.1	1183.2
27.5°	1233.0	1153.7	1087.6	1050.0	1012.4	1016.5	996.2	1008.4	1017.5	1026.7	1034.8
30°	1052.1	987.0	927.0	889.4	844.7	845.7	848.8	850.8	858.9	871.1	887.4
32.5°	878.2	808.1	752.2	711.5	685.1	677.0	665.8	684.1	694.3	706.5	722.7
35°	734.9	661.7	615.0	579.4	564.2	553.0	549.9	547.9	557.0	563.1	576.4
37.5°	632.3	582.4	547.9	522.5	508.2	496.0	493.0	491.0	489.9	487.9	496.0
40°	590.6	550.9	521.5	498.1	484.9	477.8	474.7	470.6	466.6	461.5	460.5
42.5°	578.4	535.7	501.1	477.8	467.6	466.6	466.6	464.5	460.5	453.4	448.3
45°	573.3	521.5	481.8	463.5	456.4	457.4	457.4	457.4	454.4	447.3	439.1
47.5°	564.2	504.2	463.5	448.3	445.2	447.3	449.3	449.3	447.3	441.2	432.0
50°	546.9	477.8	435.1	420.8	419.8	420.8	420.8	422.9	420.8	415.7	407.6
52.5°	533.7	457.4	413.7	402.5	402.5	401.5	400.5	400.5	399.5	395.4	389.3
55°	521.5	444.2	404.6	395.4	397.4	397.4	395.4	394.4	390.3	385.2	379.2
57.5°	504.2	430.0	395.4	389.3	391.3	390.3	389.3	388.3	384.2	378.1	370.0
60°	473.7	404.6	377.1	373.1	376.1	377.1	381.2	382.2	380.2	373.1	361.9
62.5°	440.1	373.1	352.7	349.7	352.7	355.8	358.8	356.8	356.8	349.7	339.5
63°	429.0	368.0	345.6	345.6	348.7	351.7	353.7	351.7	352.7	344.6	334.4
65°	403.5	349.7	332.4	333.4	336.5	338.5	339.5	339.5	338.5	332.4	323.2
67.5°	360.9	323.2	313.1	318.2	322.2	323.2	323.2	325.3	323.2	319.2	311.0
70°	322.2	297.8	290.7	296.8	298.8	299.9	299.9	299.9	297.8	293.8	286.7
72.5°	292.7	280.6	279.5	278.5	279.5	276.5	276.5	274.5	269.4	266.3	260.2
75°	260.2	254.1	255.1	254.1	252.1	251.1	246.0	244.0	237.9	233.8	225.7
77.5°	223.6	224.6	223.6	224.6	226.7	227.7	220.6	215.5	210.4	206.3	202.3
80°	186.0	188.1	186.0	188.1	189.1	189.1	182.0	173.8	169.8	172.8	173.8
82.5°	165.7	165.7	157.6	159.6	157.6	154.5	149.4	146.4	143.3	141.3	146.4
85°	131.1	132.1	134.2	132.1	128.1	125.0	119.9	115.9	112.8	115.9	123.0
87.5°	78.3	84.4	81.3	81.3	80.3	80.3	76.2	74.2	71.2	83.4	89.5
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°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1697.5	1700.6	1701.6	1700.6	1701.6	1703.6	1695.5	1703.6	1704.7	1698.6	1700.6
5°	1711.8	1716.9	1724.0	1724.0	1729.1	1732.1	1728.0	1739.2	1741.2	1740.2	1745.3
7.5°	1721.9	1729.1	1738.2	1743.3	1752.4	1756.5	1759.5	1769.7	1771.7	1775.8	1779.9
10°	1720.9	1731.1	1739.2	1753.4	1764.6	1772.8	1778.9	1790.0	1794.1	1800.2	1803.3
12.5°	1691.4	1702.6	1717.9	1738.2	1758.5	1771.7	1788.0	1804.3	1810.4	1818.5	1823.6
15°	1625.4	1634.5	1655.9	1682.3	1709.7	1743.3	1766.7	1792.1	1803.3	1811.4	1818.5
17.5°	1539.0	1547.1	1566.4	1589.8	1626.4	1658.9	1694.5	1733.1	1752.4	1761.6	1764.6
20°	1458.7	1470.9	1475.9	1503.4	1515.6	1548.1	1578.6	1621.3	1645.7	1662.0	1672.1
22.5°	1332.6	1338.7	1365.1	1376.3	1385.5	1405.8	1443.4	1481.0	1513.6	1540.0	1548.1
25°	1193.4	1209.6	1223.9	1233.0	1254.3	1255.4	1285.9	1312.3	1352.9	1378.4	1398.7
27.5°	1039.9	1064.3	1072.4	1078.5	1094.8	1114.1	1125.3	1151.7	1175.1	1204.5	1241.1
30°	885.4	908.7	925.0	934.2	949.4	967.7	975.8	993.1	1023.6	1056.1	1084.6
32.5°	741.0	765.4	773.5	803.0	807.1	824.4	830.5	857.9	875.2	902.6	936.2
35°	599.7	625.1	649.5	665.8	684.1	683.1	699.3	724.8	740.0	768.5	790.8
37.5°	503.2	518.4	535.7	554.0	574.3	589.6	604.8	616.0	628.2	647.5	667.8
40°	460.5	464.5	471.7	482.8	497.1	508.2	519.4	528.6	537.7	553.0	566.2
42.5°	443.2	440.1	440.1	438.1	443.2	449.3	458.4	461.5	475.7	484.9	489.9
45°	431.0	423.9	418.8	412.7	410.7	412.7	417.8	424.9	434.0	437.1	437.1
47.5°	423.9	412.7	404.6	395.4	390.3	390.3	393.4	398.5	403.5	404.6	403.5
50°	399.5	388.3	378.1	370.0	365.9	365.9	367.0	374.1	375.1	373.1	374.1
52.5°	381.2	370.0	359.8	352.7	347.6	348.7	351.7	354.8	357.8	355.8	353.7
55°	370.0	356.8	347.6	339.5	333.4	335.4	338.5	342.6	347.6	344.6	341.5
57.5°	359.8	348.7	337.5	329.3	322.2	324.3	327.3	333.4	339.5	333.4	329.3
60°	350.7	339.5	328.3	320.2	312.1	314.1	318.2	324.3	329.3	321.2	316.1
62.5°	328.3	318.2	310.0	306.0	300.9	303.9	307.0	314.1	312.1	303.9	297.8
63°	324.3	314.1	307.0	302.9	298.8	302.9	303.9	311.0	308.0	299.9	294.8
65°	312.1	303.9	296.8	292.7	288.7	290.7	290.7	293.8	289.7	283.6	279.5
67.5°	300.9	291.7	284.6	276.5	272.4	270.4	269.4	268.4	265.3	262.3	261.2
70°	276.5	270.4	264.3	257.2	251.1	247.0	245.0	242.9	240.9	239.9	238.9
72.5°	250.1	245.0	238.9	234.8	229.7	226.7	221.6	220.6	218.5	216.5	215.5
75°	221.6	215.5	213.5	209.4	206.3	204.3	200.2	199.2	197.2	194.1	193.1
77.5°	196.2	194.1	191.1	190.1	185.0	182.0	179.9	178.9	176.9	174.8	172.8
80°	174.8	173.8	171.8	170.8	167.7	163.7	161.6	162.6	159.6	158.6	155.5
82.5°	157.6	158.6	158.6	155.5	152.5	147.4	145.4	148.4	146.4	142.3	138.2
85°	134.2	133.2	134.2	133.2	127.1	122.0	119.9	122.0	121.0	114.9	113.8
87.5°	95.6	94.5	92.5	98.6	90.5	73.2	75.2	85.4	82.3	79.3	77.3
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-SLR-F06-E-7060

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1704.7	1701.6	1703.6	1704.7	1701.6	1708.7	1701.6	1702.6	1704.7	1698.6	1697.5
5°	1749.4	1749.4	1757.5	1758.5	1757.5	1766.7	1765.6	1766.7	1764.6	1763.6	1759.5
7.5°	1786.0	1790.0	1796.1	1805.3	1808.3	1815.5	1817.5	1818.5	1822.6	1826.6	1824.6
10°	1812.4	1823.6	1828.7	1837.8	1847.0	1852.0	1857.1	1865.3	1868.3	1871.4	1867.3
12.5°	1830.7	1843.9	1852.0	1863.2	1874.4	1882.5	1891.7	1901.9	1912.0	1915.1	1910.0
15°	1821.6	1836.8	1849.0	1861.2	1878.5	1893.7	1911.0	1929.3	1942.5	1947.6	1941.5
17.5°	1764.6	1779.9	1798.2	1816.5	1834.8	1863.2	1887.6	1918.1	1939.5	1954.7	1956.7
20°	1686.4	1695.5	1721.9	1740.2	1769.7	1803.3	1839.8	1875.4	1899.8	1927.3	1943.5
22.5°	1570.5	1588.8	1618.3	1649.8	1679.2	1723.0	1761.6	1808.3	1850.0	1887.6	1923.2
25°	1429.2	1454.6	1489.2	1532.9	1571.5	1618.3	1674.2	1726.0	1796.1	1855.1	1931.3
27.5°	1276.7	1323.5	1371.2	1417.0	1459.7	1512.5	1570.5	1628.4	1708.7	1803.3	1902.9
30°	1132.4	1171.0	1231.0	1283.8	1333.6	1398.7	1458.7	1522.7	1598.9	1710.8	1823.6
32.5°	981.9	1013.4	1060.2	1125.3	1183.2	1259.4	1312.3	1388.5	1477.0	1594.9	1723.0
35°	826.4	870.1	907.7	952.5	996.2	1072.4	1151.7	1236.1	1337.7	1463.7	1604.0
37.5°	689.2	716.6	734.9	780.7	819.3	884.3	976.8	1078.5	1190.3	1318.4	1468.8
40°	575.3	592.6	612.9	643.4	676.0	734.9	820.3	934.2	1051.1	1179.1	1329.6
42.5°	497.1	508.2	510.3	533.7	564.2	622.1	690.2	794.9	924.0	1058.2	1208.6
45°	443.2	443.2	442.2	452.3	476.7	526.5	588.5	682.1	805.1	945.3	1101.9
47.5°	405.6	408.6	407.6	411.7	427.9	464.5	520.4	599.7	711.5	848.8	1006.3
50°	377.1	381.2	382.2	383.2	389.3	419.8	467.6	531.6	631.2	762.4	920.9
52.5°	354.8	355.8	355.8	354.8	356.8	374.1	413.7	472.7	565.2	683.1	835.6
55°	342.6	343.6	343.6	343.6	343.6	354.8	383.2	431.0	505.2	616.0	754.2
57.5°	328.3	328.3	330.4	330.4	330.4	334.4	354.8	394.4	451.3	539.8	662.8
60°	316.1	319.2	323.2	324.3	323.2	323.2	333.4	359.8	397.4	461.5	565.2
62.5°	297.8	301.9	307.0	309.0	310.0	308.0	313.1	324.3	346.6	380.2	450.3
63°	294.8	298.8	302.9	304.9	306.0	303.9	308.0	317.1	335.4	362.9	425.9
65°	281.6	286.7	287.7	288.7	287.7	286.7	285.6	285.6	290.7	300.9	334.4
67.5°	263.3	266.3	266.3	268.4	263.3	261.2	259.2	257.2	254.1	255.1	267.3
70°	241.9	244.0	242.9	241.9	239.9	236.8	234.8	231.8	225.7	223.6	229.7
72.5°	217.5	219.6	219.6	219.6	215.5	213.5	211.4	209.4	207.4	209.4	211.4
75°	195.2	195.2	197.2	196.2	193.1	191.1	190.1	189.1	189.1	189.1	188.1
77.5°	173.8	172.8	172.8	169.8	167.7	166.7	168.7	169.8	168.7	166.7	165.7
80°	155.5	150.4	145.4	141.3	140.3	142.3	144.3	150.4	147.4	147.4	145.4
82.5°	132.1	121.0	113.8	114.9	111.8	112.8	114.9	122.0	119.9	121.0	125.0
85°	105.7	95.6	84.4	86.4	86.4	84.4	89.5	91.5	93.5	98.6	94.5
87.5°	74.2	65.1	53.9	46.8	48.8	50.8	52.9	50.8	44.7	46.8	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



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CATALOG NUMBER: LDRL-SLR-F06-E-7060

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
2.5°	1695.5	1696.5	1696.5	1689.4	1687.4	1689.4	1688.4	1688.4	1682.3	1683.3	1681.3
5°	1757.5	1759.5	1753.4	1748.4	1741.2	1740.2	1739.2	1735.1	1731.1	1723.0	1718.9
7.5°	1823.6	1814.4	1812.4	1803.3	1800.2	1792.1	1786.0	1779.9	1774.8	1770.7	1767.7
10°	1865.3	1858.1	1856.1	1839.8	1834.8	1824.6	1818.5	1811.4	1805.3	1799.2	1798.2
12.5°	1902.9	1890.7	1883.6	1861.2	1851.0	1839.8	1834.8	1828.7	1826.6	1825.6	1829.7
15°	1932.3	1915.1	1901.9	1881.5	1873.4	1867.3	1868.3	1865.3	1877.5	1884.6	1897.8
17.5°	1951.7	1944.5	1941.5	1926.2	1931.3	1931.3	1945.6	1952.7	1975.0	1993.3	2011.6
20°	1961.8	1975.0	2000.5	2005.5	2017.7	2030.9	2052.3	2064.5	2087.9	2114.3	2139.7
22.5°	1971.0	2026.9	2078.7	2117.4	2144.8	2175.3	2190.5	2215.9	2232.2	2251.5	2290.2
25°	2021.8	2115.3	2206.8	2256.6	2321.7	2365.4	2399.9	2425.3	2453.8	2470.1	2513.8
27.5°	2007.6	2126.5	2248.5	2340.0	2441.6	2523.9	2597.1	2645.9	2682.5	2741.5	2778.1
30°	1942.5	2080.8	2228.1	2358.3	2500.6	2634.7	2761.8	2875.7	2973.2	3052.5	3106.4
32.5°	1850.0	2008.6	2181.4	2342.0	2523.9	2702.8	2885.8	3059.6	3225.3	3356.5	3438.8
35°	1746.3	1917.1	2108.2	2298.3	2516.8	2750.6	2997.6	3231.4	3471.3	3680.7	3845.4
37.5°	1620.3	1805.3	2014.7	2235.3	2486.3	2766.9	3077.9	3396.1	3702.1	4019.2	4251.0
40°	1488.1	1669.1	1886.6	2138.7	2428.4	2758.8	3139.9	3552.6	3995.8	4404.5	4757.2
42.5°	1375.3	1552.2	1779.9	2028.9	2341.0	2728.3	3181.6	3692.9	4238.8	4768.4	5237.0
45°	1264.5	1453.6	1683.3	1946.6	2287.1	2716.1	3235.5	3814.9	4438.0	5066.2	5663.9
47.5°	1177.1	1364.1	1595.9	1878.5	2243.4	2708.9	3286.3	3928.7	4600.6	5287.8	5996.3
50°	1093.7	1272.6	1498.3	1796.1	2197.7	2697.8	3316.8	4019.2	4727.7	5461.6	6232.1
52.5°	1008.4	1194.4	1413.9	1702.6	2137.7	2675.4	3326.0	4090.4	4858.8	5628.3	6452.7
55°	922.0	1108.0	1327.5	1626.4	2056.4	2631.7	3318.8	4142.2	4996.1	5804.2	6653.9
57.5°	816.2	999.2	1228.9	1529.8	1951.7	2544.3	3284.3	4164.6	5081.4	5968.8	6856.2
60°	697.3	870.1	1087.6	1394.6	1823.6	2418.2	3207.0	4133.1	5120.1	6077.6	7070.7
62.5°	547.9	698.3	898.6	1203.5	1637.6	2236.3	3038.3	3993.8	5026.5	6050.2	7163.2
63°	514.3	659.7	866.1	1152.7	1582.7	2173.3	2988.5	3946.0	4984.9	6024.7	7152.0
65°	392.4	500.1	670.9	927.0	1337.7	1882.5	2726.2	3675.6	4722.6	5771.6	6976.2
67.5°	289.7	345.6	450.3	622.1	941.3	1464.8	2234.2	3174.5	4165.6	5151.6	6377.5
70°	239.9	261.2	310.0	398.5	582.4	971.8	1578.6	2416.2	3348.3	4197.1	5304.0
72.5°	214.5	229.7	252.1	291.7	368.0	570.3	1026.7	1568.4	2331.8	3065.7	4000.9
75°	192.1	202.3	220.6	244.0	278.5	356.8	542.8	930.1	1425.1	2065.5	2744.5
77.5°	168.7	178.9	197.2	215.5	237.9	271.4	336.5	529.6	852.8	1205.6	1684.3
80°	146.4	151.5	166.7	193.1	209.4	236.8	258.2	331.4	464.5	631.2	897.6
82.5°	121.0	122.0	132.1	152.5	172.8	183.0	189.1	208.4	267.3	333.4	440.1
85°	86.4	82.3	88.4	96.6	112.8	103.7	110.8	116.9	142.3	171.8	315.1
87.5°	38.6	30.5	35.6	39.6	35.6	24.4	35.6	29.5	36.6	72.2	81.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	0°
2.5°	1683.3	1677.2	1677.2	1676.2	1677.2	1675.2	1671.1	1671.1	1674.2	1673.1	1673.1	2.5°
5°	1718.9	1710.8	1708.7	1707.7	1707.7	1702.6	1696.5	1693.5	1692.5	1688.4	1685.3	5°
7.5°	1765.6	1760.6	1763.6	1757.5	1755.5	1754.5	1746.3	1740.2	1731.1	1727.0	1711.8	7.5°
10°	1804.3	1801.2	1809.4	1808.3	1809.4	1809.4	1798.2	1792.1	1778.9	1771.7	1752.4	10°
12.5°	1837.8	1839.8	1855.1	1855.1	1858.1	1862.2	1856.1	1842.9	1837.8	1830.7	1810.4	12.5°
15°	1923.2	1931.3	1942.5	1960.8	1965.9	1966.9	1972.0	1960.8	1947.6	1929.3	1904.9	15°
17.5°	2039.1	2055.3	2093.0	2119.4	2124.5	2129.5	2126.5	2124.5	2100.1	2084.8	2059.4	17.5°
20°	2184.4	2224.1	2276.9	2313.5	2329.8	2331.8	2352.2	2337.9	2315.6	2285.1	2248.5	20°
22.5°	2347.1	2413.1	2480.2	2534.1	2565.6	2579.9	2601.2	2580.9	2551.4	2533.1	2484.3	22.5°
25°	2569.7	2641.9	2719.1	2761.8	2842.1	2865.5	2877.7	2871.6	2841.1	2854.3	2809.6	25°
27.5°	2874.6	2936.6	3045.4	3099.3	3174.5	3218.2	3209.1	3259.9	3269.0	3300.5	3305.6	27.5°
30°	3207.0	3309.7	3456.1	3564.8	3679.7	3753.9	3812.9	3857.6	3909.4	3996.8	4049.7	30°
32.5°	3565.8	3714.3	3901.3	4132.0	4376.0	4575.2	4799.9	4838.5	4954.4	4920.8	4898.5	32.5°
35°	3965.3	4152.4	4392.3	4695.2	5049.9	5379.3	5595.8	5704.5	5750.3	5775.7	5621.2	35°
37.5°	4500.0	4753.1	5020.4	5350.8	5622.2	5930.2	6179.2	6449.6	6573.6	6514.7	6218.9	37.5°
40°	5092.6	5329.5	5691.3	5961.7	6281.9	6789.1	7126.6	7451.9	7553.5	7357.4	6893.8	40°
42.5°	5687.3	6012.5	6404.9	6789.1	7157.1	7616.6	8063.8	8385.0	8496.8	8161.4	7611.5	42.5°
45°	6216.9	6633.6	7095.1	7489.5	8003.8	8604.6	9152.5	9410.7	9390.3	8851.6	8232.6	45°
47.5°	6678.3	7219.1	7739.6	8271.2	8789.6	9467.6	10010.4	10307.2	10096.8	9530.6	8829.2	47.5°
50°	7059.5	7713.1	8341.3	8952.2	9588.6	10309.2	10832.7	11107.2	10787.0	10070.4	9286.7	50°
52.5°	7349.2	8159.4	8883.1	9566.2	10326.5	11105.2	11570.7	11736.4	11237.3	10488.2	9629.2	52.5°
55°	7622.7	8538.5	9339.5	10115.1	11061.5	11759.8	12195.9	12165.4	11520.9	10670.1	9843.7	55°
57.5°	7829.0	8861.8	9714.6	10597.9	11617.5	12363.6	12615.7	12414.4	11638.8	10724.0	9905.7	57.5°
60°	8089.2	9113.9	10048.0	11034.0	12146.0	12777.3	12810.8	12450.0	11605.3	10622.3	9818.3	60°
62.5°	8255.9	9271.4	10260.5	11332.9	12548.6	13010.1	12770.2	12296.5	11412.1	10371.3	9618.0	62.5°
63°	8272.2	9286.7	10277.7	11362.3	12605.5	13020.2	12732.6	12227.4	11355.2	10302.1	9565.2	63°
65°	8199.0	9243.0	10198.5	11309.5	12619.7	12900.3	12457.1	11943.8	11041.1	9949.4	9254.1	65°
67.5°	7687.7	8773.3	9685.1	10727.0	12070.8	12226.4	11782.1	11224.1	10376.3	9189.1	8574.1	67.5°
70°	6771.9	7803.6	8450.1	9417.8	10600.0	10786.0	10388.5	9956.5	9203.3	8211.2	7700.9	70°
72.5°	5455.5	6468.9	6857.2	7598.3	8537.5	8496.8	8217.3	8163.4	7767.0	6934.5	6627.5	72.5°
75°	4078.2	5042.8	5206.5	5508.4	6032.9	6019.7	6084.7	6316.5	6514.7	6022.7	5629.3	75°
77.5°	2689.6	3649.2	3750.9	4102.6	4247.9	4646.4	5114.0	5696.4	5985.1	5783.8	5301.0	77.5°
80°	1488.1	2496.5	2476.2	2613.4	2870.6	3450.0	4158.5	5023.5	5600.9	5456.5	4927.9	80°
82.5°	773.5	1577.6	1554.2	1578.6	1817.5	2304.4	2843.1	3550.6	4147.3	4160.5	3982.6	82.5°
85°	575.3	1132.4	1199.5	1254.3	1412.9	1582.7	1681.3	1908.0	2235.3	2540.2	2649.0	85°
87.5°	211.4	680.0	846.7	909.8	913.8	892.5	726.8	800.0	727.8	861.0	1202.5	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1681.3	1681.3	1681.3	1681.3	1681.3	1681.3	1681.3
1675.2	1675.2	1674.2	1676.2	1677.2	1680.3	1679.2
1682.3	1679.2	1676.2	1674.2	1672.1	1673.1	1671.1
1700.6	1690.4	1682.3	1675.2	1669.1	1668.1	1662.0
1741.2	1723.0	1707.7	1696.5	1684.3	1678.2	1667.0
1793.1	1772.8	1753.4	1737.2	1723.0	1714.8	1706.7
1883.6	1854.1	1830.7	1813.4	1799.2	1790.0	1781.9
2017.7	1981.1	1945.6	1912.0	1908.0	1886.6	1886.6
2202.7	2152.9	2107.2	2078.7	2065.5	2037.0	2037.0
2458.9	2410.1	2342.0	2307.4	2310.5	2286.1	2297.3
2790.3	2749.6	2679.5	2665.2	2665.2	2638.8	2599.2
3287.3	3273.1	3195.8	3215.2	3174.5	3075.9	2969.2
4025.3	4025.3	3875.9	3768.1	3674.6	3521.1	3333.1
4764.3	4667.7	4439.0	4256.0	4061.9	3827.1	3585.2
5388.4	5131.2	4899.5	4675.9	4384.1	4132.0	3792.5
5915.0	5671.0	5405.7	5065.2	4722.6	4370.9	3934.8
6567.5	6270.7	5872.3	5444.3	5023.5	4539.6	4034.5
7164.2	6792.2	6289.0	5747.2	5211.5	4671.8	4082.2
7725.3	7245.5	6624.5	5973.9	5364.0	4753.1	4102.6
8253.9	7610.5	6887.7	6135.5	5468.7	4796.8	4097.5
8602.6	7877.8	7053.4	6233.1	5531.7	4812.1	4083.2
8821.1	8041.5	7151.0	6287.0	5563.3	4815.1	4082.2
8944.1	8134.0	7203.9	6324.6	5597.8	4833.4	4106.6
9039.7	8207.1	7262.8	6388.6	5680.2	4918.8	4205.2
9130.1	8399.3	7416.3	6506.6	5823.5	5078.4	4421.7
9167.7	8764.2	7728.4	6724.1	6023.7	5334.5	4759.2
9164.7	8833.3	7818.8	6784.1	6076.6	5402.6	4845.6
9053.9	9052.9	8230.5	7070.7	6322.6	5717.8	5206.5
8725.6	9162.6	8685.9	7448.8	6704.8	6237.2	5749.3
8206.1	9029.5	8747.9	7548.5	6976.2	6713.9	6111.1
7311.6	8393.2	8167.5	7123.6	6883.7	6807.4	6120.3
5913.9	6747.5	6650.9	6085.7	6174.2	6330.7	5466.7
4764.3	4737.9	4723.6	4518.3	4894.4	5212.6	4063.9
3979.6	3278.2	3044.4	2965.1	3585.2	3829.1	2521.9
3720.4	2944.8	2362.3	2262.7	2686.6	2816.7	1520.7
2843.1	2859.4	2475.2	2121.4	2089.9	1913.0	1114.1
1391.6	1415.0	1495.3	1365.1	1171.0	987.0	350.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)