

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: P145768

Luminaire Tested: **LDRL-SLL-E06-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145768  
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-E06-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (126) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13639.4 lumens  
Efficiency: N/A  
Efficacy: 90.6 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

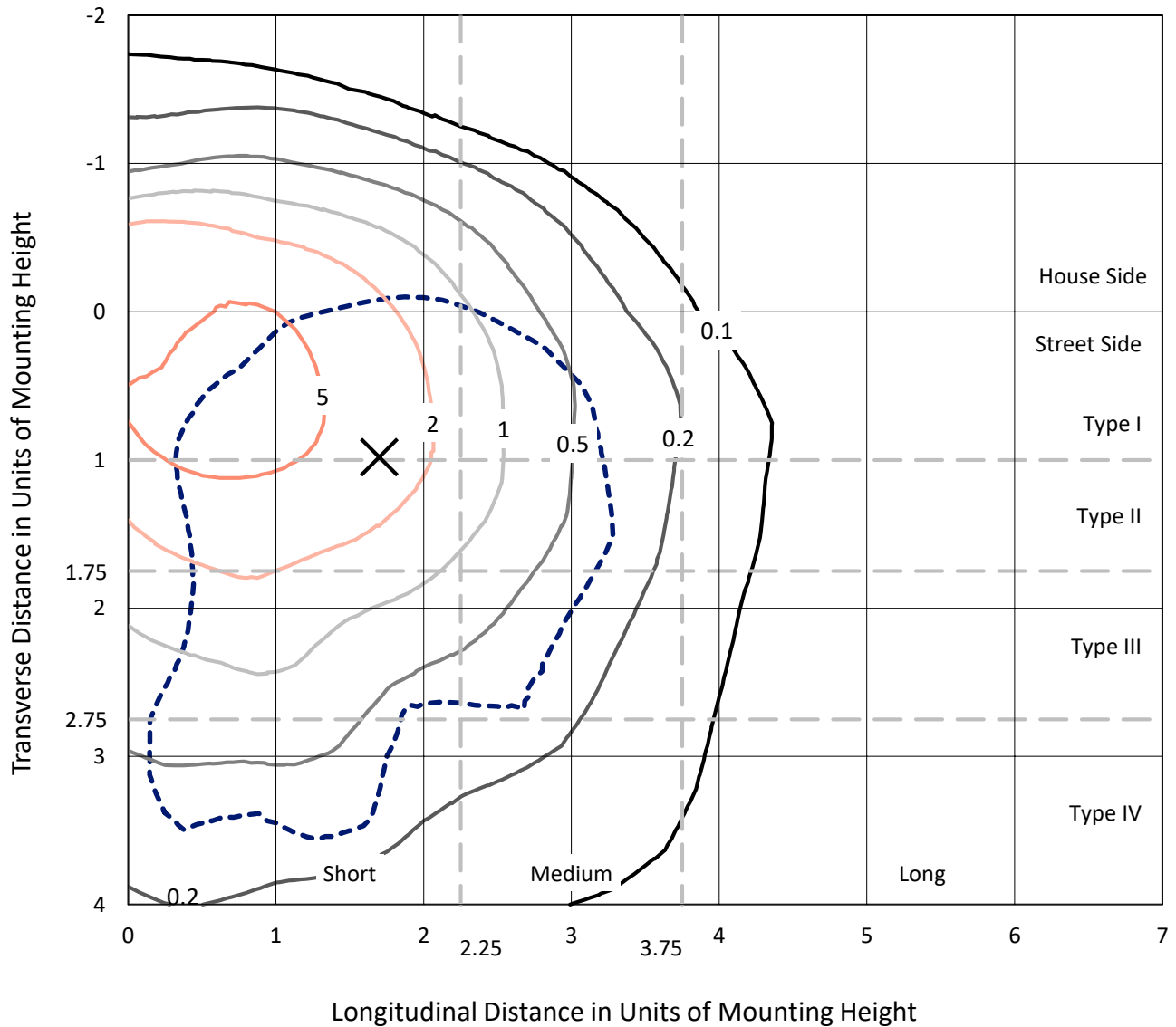
Input Watts (W): 150.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

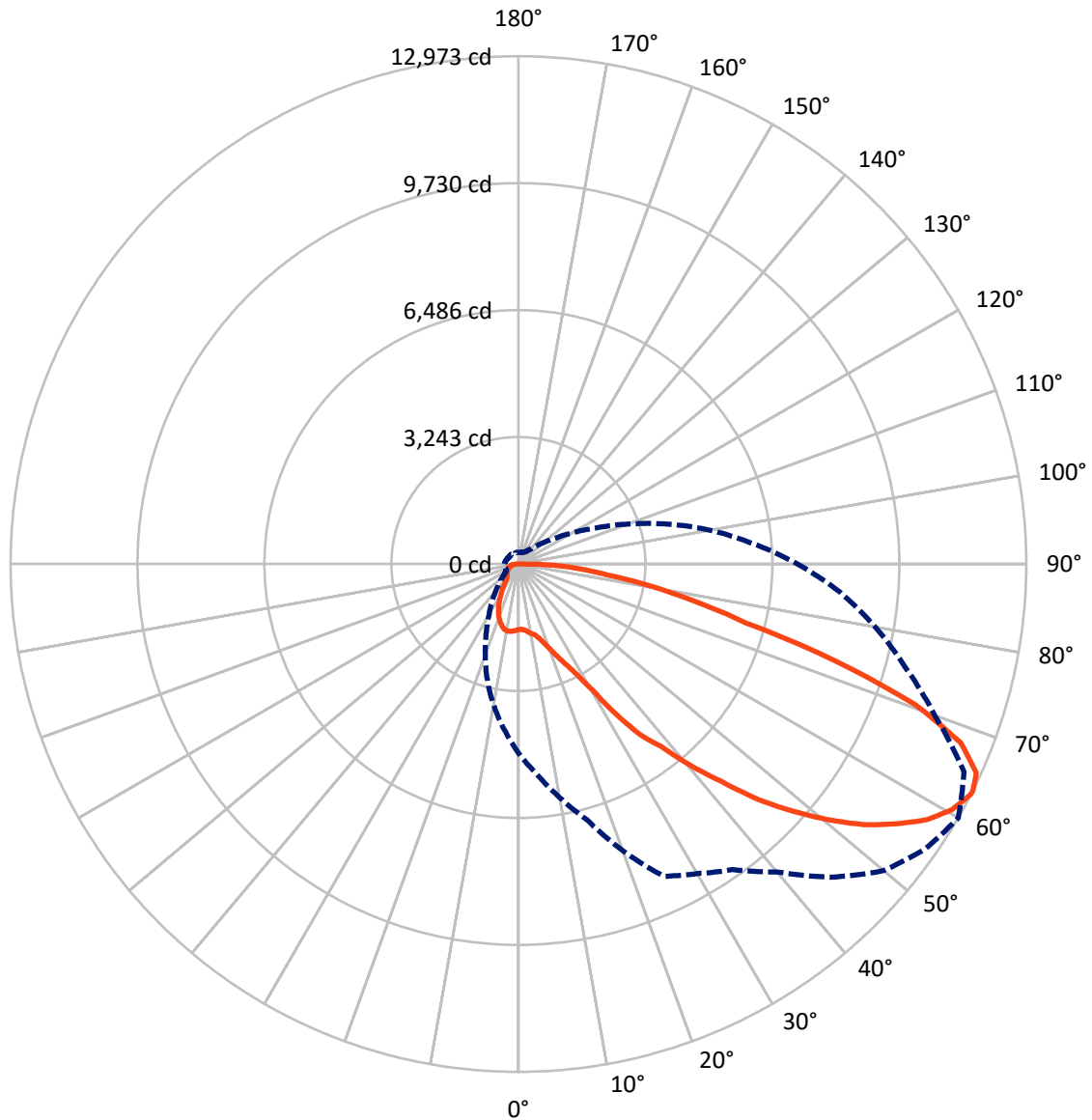
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.5 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
<b>House Side</b>	Lumens	2855.1	0.0	2855.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	10784.3	0.0	10784.3
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	13639.4	0.0	13639.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.5	1.2
10°-20°	513.5	3.8
20°-30°	908.0	6.7
30°-40°	1433.5	10.5
40°-50°	2108.0	15.5
50°-60°	2776.8	20.4
60°-70°	3095.0	22.7
70°-80°	2033.5	14.9
80°-90°	606.4	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°	13639.4	100.0
0°-180°	13639.4	100.0

**Coefficient of Utilization**



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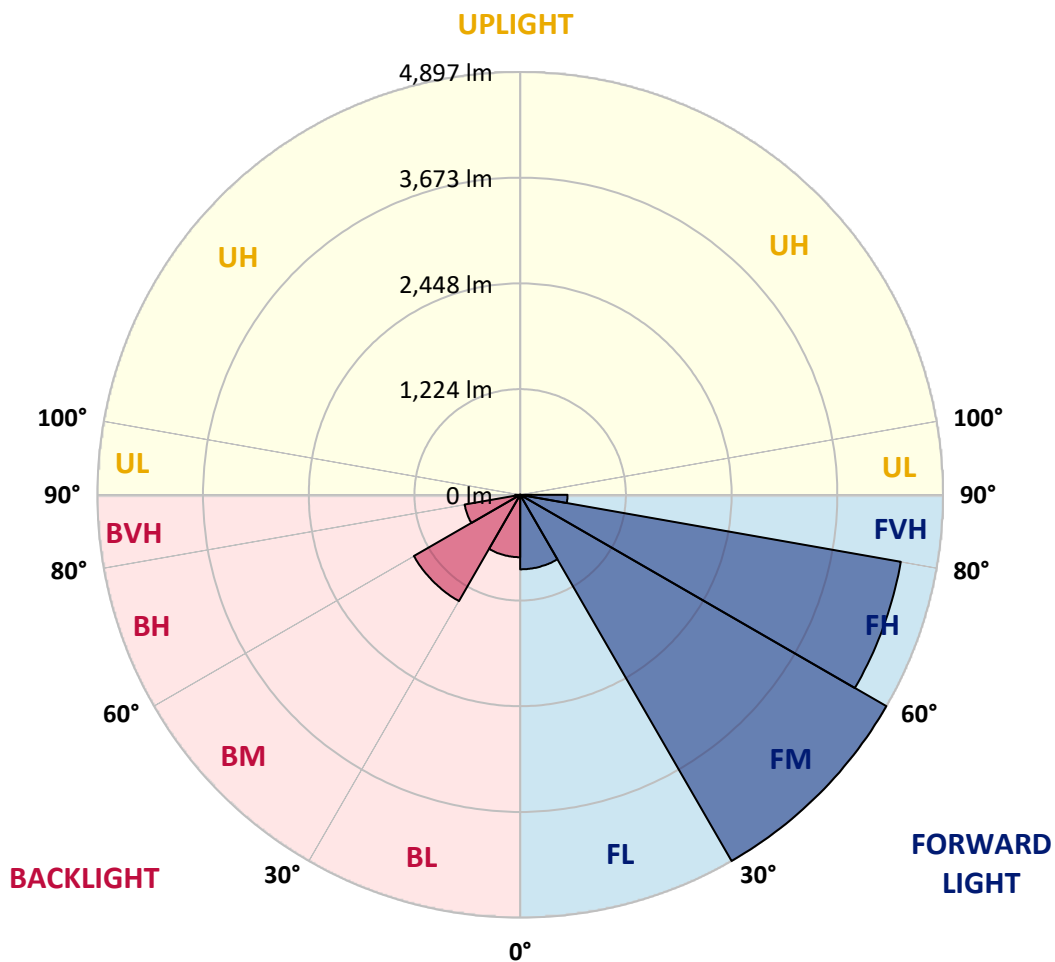
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	863.3	6.3			
FM	(30°-60°)	4896.9	35.9			
FH	(60°-80°)	4476.0	32.8			G2/5000
FVH	(80°-90°)	548.1	4.0			G4/750
BL	(0°-30°)	722.8	5.3	B2/1000		
BM	(30°-60°)	1421.5	10.4	B2/2500		
BH	(60°-80°)	652.5	4.8	B2/1000		G2/1000
BVH	(80°-90°)	58.3	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°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1673.1	1674.1	1671.1	1670.1	1668.1	1669.1	1669.1	1667.1	1667.1	1668.1	1665.0
5°	1665.0	1667.1	1666.0	1668.1	1670.1	1673.1	1676.2	1679.2	1682.2	1686.3	1687.3
7.5°	1655.9	1662.0	1663.0	1669.1	1676.2	1684.3	1694.4	1705.5	1720.7	1724.8	1733.9
10°	1661.0	1672.1	1678.2	1690.3	1701.5	1716.7	1734.9	1746.0	1765.3	1772.4	1785.5
12.5°	1700.5	1708.6	1716.7	1730.9	1747.1	1766.3	1786.6	1803.8	1824.0	1831.1	1836.2
15°	1775.4	1783.5	1792.6	1806.8	1824.0	1847.3	1876.7	1898.0	1922.3	1940.5	1953.7
17.5°	1879.7	1879.7	1901.0	1905.1	1938.5	1973.9	2010.4	2051.9	2077.2	2092.4	2116.7
20°	2029.6	2029.6	2058.0	2071.2	2099.5	2145.1	2194.7	2240.3	2276.7	2307.1	2329.4
22.5°	2288.9	2277.8	2302.1	2299.0	2333.5	2401.3	2449.9	2475.3	2523.9	2542.1	2571.5
25°	2589.7	2629.2	2655.5	2655.5	2669.7	2739.6	2780.1	2799.3	2843.9	2830.7	2861.1
27.5°	2958.4	3064.7	3162.9	3203.5	3184.2	3261.2	3275.4	3293.6	3288.5	3257.1	3248.0
30°	3320.9	3508.3	3661.2	3754.4	3861.8	4010.6	4010.6	4035.0	3982.3	3895.2	3843.5
32.5°	3572.1	3813.2	4047.1	4240.5	4422.9	4650.7	4746.9	4880.6	4902.9	4936.3	4820.9
35°	3778.7	4117.0	4368.2	4658.8	4881.6	5112.6	5368.8	5600.7	5754.7	5729.3	5683.8
37.5°	3920.5	4355.0	4705.4	5046.7	5386.0	5650.4	5893.4	6196.2	6491.0	6549.7	6426.1
40°	4019.8	4523.1	5005.2	5424.5	5850.9	6247.9	6543.6	6868.7	7330.6	7526.0	7424.8
42.5°	4067.4	4654.8	5192.6	5726.3	6266.1	6767.5	7138.1	7583.8	8131.7	8465.9	8354.5
45°	4087.6	4735.8	5344.5	5952.2	6600.3	7219.2	7697.2	8202.6	8819.4	9356.1	9376.4
47.5°	4082.6	4779.4	5448.8	6113.2	6862.7	7582.8	8223.8	8797.1	9495.9	10060.0	10269.7
50°	4068.4	4794.5	5511.6	6210.4	7027.7	7849.1	8571.2	9252.8	10033.7	10747.7	11066.7
52.5°	4067.4	4797.6	5543.0	6264.1	7125.0	8012.2	8789.0	9594.2	10450.0	11196.4	11693.7
55°	4091.7	4815.8	5577.4	6301.6	7177.6	8104.3	8911.5	9807.8	10631.2	11479.0	12121.1
57.5°	4189.9	4900.9	5659.5	6365.4	7236.4	8177.3	9006.7	9869.6	10684.9	11596.4	12369.2
60°	4405.6	5059.9	5802.3	6482.9	7389.3	8368.7	9096.9	9782.5	10583.6	11563.0	12404.6
62.5°	4741.9	5315.1	6001.8	6699.6	7700.2	8732.3	9134.3	9583.0	10333.5	11370.6	12251.7
63°	4828.0	5383.0	6054.5	6759.4	7790.4	8801.1	9131.3	9530.3	10264.6	11313.9	12182.8
65°	5187.5	5696.9	6299.5	7045.0	8200.6	9019.9	9020.9	9220.4	9913.2	11000.9	11900.3
67.5°	5728.3	6214.5	6680.4	7421.7	8654.3	9129.3	8693.8	8542.9	9155.6	10338.6	11183.2
70°	6088.9	6689.5	6950.8	7521.0	8716.1	8996.6	8176.2	7672.9	8181.3	9169.8	9920.3
72.5°	6098.0	6782.6	6858.6	7097.6	8137.8	8362.6	7285.0	6603.4	6909.2	7738.7	8133.7
75°	5446.8	6307.7	6151.7	6063.6	6626.7	6722.9	5892.4	5608.8	6000.8	6491.0	6293.5
77.5°	4049.1	5193.6	4876.6	4501.8	4706.4	4720.6	4746.9	5281.7	5762.8	5963.3	5675.7
80°	2512.7	3815.2	3572.1	2954.3	3033.3	3266.2	3965.1	4910.0	5436.7	5580.5	5005.2
82.5°	1515.1	2806.4	2676.8	2254.5	2353.7	2934.1	3706.8	3968.1	4145.3	4132.2	3537.7
85°	1110.0	1906.1	2082.3	2113.7	2466.1	2849.0	2832.8	2639.3	2531.0	2227.1	1901.0
87.5°	349.4	983.4	1166.7	1360.2	1489.8	1409.8	1386.5	1198.1	857.8	725.2	797.1
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°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1665.0	1669.1	1671.1	1670.1	1671.1	1671.1	1677.2	1675.2	1677.2	1676.2	1682.2
5°	1690.3	1696.4	1701.5	1701.5	1702.5	1704.5	1712.6	1712.6	1716.7	1724.8	1728.8
7.5°	1740.0	1748.1	1749.1	1751.1	1757.2	1754.2	1759.2	1761.2	1764.3	1768.3	1773.4
10°	1791.6	1802.8	1802.8	1801.8	1802.8	1794.7	1797.7	1791.6	1792.6	1798.7	1804.8
12.5°	1849.4	1855.4	1851.4	1848.3	1848.3	1833.1	1831.1	1823.0	1819.0	1820.0	1822.0
15°	1964.8	1959.7	1958.7	1953.7	1935.4	1924.3	1916.2	1890.9	1877.7	1870.6	1858.5
17.5°	2118.8	2121.8	2116.7	2111.7	2085.3	2047.9	2031.7	2004.3	1986.1	1967.8	1945.6
20°	2343.6	2323.3	2321.3	2305.1	2268.6	2216.0	2176.5	2131.9	2106.6	2080.3	2057.0
22.5°	2591.7	2570.5	2556.3	2524.9	2471.2	2404.4	2338.5	2281.8	2243.3	2224.1	2207.9
25°	2867.2	2855.1	2831.8	2751.7	2709.2	2632.2	2560.3	2504.6	2461.1	2444.9	2416.5
27.5°	3197.4	3206.5	3162.9	3088.0	3034.3	2925.9	2864.2	2768.0	2731.5	2672.8	2636.3
30°	3799.0	3740.2	3666.3	3551.9	3443.5	3297.6	3195.3	3095.1	3041.4	2962.4	2865.2
32.5°	4782.4	4558.6	4360.1	4117.0	3887.1	3700.7	3552.9	3426.3	3344.2	3213.6	3048.5
35°	5575.4	5359.7	5031.5	4678.1	4376.3	4137.2	3950.9	3831.4	3667.3	3458.7	3219.7
37.5°	6156.7	5908.6	5601.7	5331.3	5002.2	4735.8	4483.6	4235.5	4004.6	3688.6	3383.7
40°	7100.7	6764.4	6259.0	5940.0	5670.6	5310.1	5074.1	4739.9	4388.4	3981.3	3539.7
42.5°	8034.5	7588.8	7131.0	6764.4	6381.6	5990.6	5666.6	5217.9	4751.0	4223.3	3679.5
45°	9119.2	8573.3	7974.7	7462.2	7069.3	6609.5	6194.2	5643.3	5047.7	4421.8	3801.0
47.5°	9973.9	9433.1	8757.6	8241.1	7711.4	7192.8	6654.0	5974.4	5268.5	4583.9	3914.4
50°	10793.3	10271.7	9553.6	8919.6	8310.9	7685.0	7033.8	6209.4	5441.7	4710.5	4004.6
52.5°	11528.6	11064.7	10288.9	9531.4	8850.8	8129.7	7322.5	6429.2	5607.8	4841.1	4075.5
55°	12151.4	11717.0	11021.2	10078.3	9305.5	8507.4	7594.9	6629.7	5783.0	4977.9	4127.1
57.5°	12569.7	12318.6	11575.2	10559.3	9679.2	8829.5	7800.5	6831.3	5947.1	5062.9	4149.4
60°	12764.2	12730.8	12101.8	10993.8	10011.4	9080.7	8059.8	7045.0	6055.5	5101.4	4118.0
62.5°	12723.7	12962.7	12502.9	11291.6	10223.1	9237.6	8225.9	7137.1	6028.1	5008.2	3979.2
63°	12686.2	12972.8	12559.6	11321.0	10240.3	9252.8	8242.1	7126.0	6002.8	4966.7	3931.6
65°	12411.7	12853.3	12573.8	11268.3	10161.3	9209.3	8169.2	6950.8	5750.6	4705.4	3662.2
67.5°	11739.2	12181.8	12026.9	10688.0	9649.9	8741.4	7659.7	6354.2	5132.8	4150.4	3162.9
70°	10350.7	10746.7	10561.4	9383.5	8419.3	7775.2	6747.2	5284.7	4181.8	3336.1	2407.4
72.5°	8187.4	8465.9	8506.4	7570.6	6832.3	6445.4	5435.6	3986.3	3054.6	2323.3	1562.7
75°	6062.6	5997.7	6010.9	5488.3	5187.5	5024.4	4063.3	2734.5	2058.0	1419.9	926.7
77.5°	5095.3	4629.5	4232.4	4087.6	3737.2	3635.9	2679.8	1678.2	1201.2	849.7	527.7
80°	4143.3	3437.4	2860.1	2603.9	2467.2	2487.4	1482.7	894.3	628.9	462.8	330.2
82.5°	2832.8	2296.0	1810.9	1572.9	1548.6	1571.8	770.7	438.5	332.2	266.4	207.6
85°	1675.2	1576.9	1407.8	1249.8	1195.1	1128.2	573.2	314.0	171.2	141.8	116.5
87.5°	724.1	889.2	910.5	906.4	843.7	677.6	210.7	81.0	71.9	36.5	29.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1682.2	1683.3	1681.2	1683.3	1690.3	1690.3	1689.3	1691.4	1692.4	1698.4	1696.4
5°	1732.9	1733.9	1734.9	1742.0	1747.1	1753.1	1751.1	1753.1	1757.2	1758.2	1760.2
7.5°	1779.5	1785.5	1793.6	1796.7	1805.8	1807.8	1816.9	1818.0	1820.0	1815.9	1811.9
10°	1811.9	1818.0	1828.1	1833.1	1849.4	1851.4	1858.5	1860.5	1864.5	1861.5	1858.5
12.5°	1828.1	1833.1	1844.3	1854.4	1876.7	1883.8	1895.9	1903.0	1908.1	1905.1	1894.9
15°	1861.5	1860.5	1866.6	1874.7	1894.9	1908.1	1925.3	1934.4	1940.5	1935.4	1922.3
17.5°	1938.5	1924.3	1924.3	1919.2	1934.4	1937.5	1944.6	1949.6	1947.6	1932.4	1911.1
20°	2044.8	2023.6	2010.4	1998.2	1993.2	1967.8	1954.7	1936.5	1920.2	1892.9	1868.6
22.5°	2182.6	2167.4	2137.0	2109.6	2071.2	2019.5	1963.8	1916.2	1880.7	1843.3	1801.8
25°	2391.2	2356.8	2313.2	2248.4	2198.8	2107.6	2014.4	1924.3	1848.3	1789.6	1719.7
27.5°	2587.7	2514.8	2432.7	2331.4	2240.3	2118.8	2000.3	1895.9	1796.7	1702.5	1622.5
30°	2751.7	2625.1	2491.5	2349.7	2220.0	2073.2	1935.4	1816.9	1704.5	1593.1	1517.2
32.5°	2875.3	2693.0	2514.8	2333.5	2173.4	2001.3	1843.3	1716.7	1589.1	1471.6	1383.5
35°	2986.7	2740.6	2507.7	2289.9	2100.5	1910.1	1740.0	1598.2	1458.4	1332.8	1231.6
37.5°	3066.7	2756.8	2477.3	2227.1	2007.3	1798.7	1614.4	1463.5	1313.6	1186.0	1074.6
40°	3128.5	2748.7	2419.6	2130.9	1879.7	1663.0	1482.7	1324.7	1174.8	1047.2	930.8
42.5°	3170.0	2718.3	2332.5	2021.5	1773.4	1546.5	1370.3	1204.2	1054.3	920.6	792.0
45°	3223.7	2706.2	2278.8	1939.5	1677.2	1448.3	1259.9	1097.9	941.9	802.1	679.6
47.5°	3274.3	2699.1	2235.2	1871.6	1590.1	1359.2	1172.8	1002.7	845.7	709.0	597.5
50°	3304.7	2687.9	2189.7	1789.6	1492.9	1268.0	1089.8	917.6	759.6	628.9	529.7
52.5°	3313.8	2665.7	2129.9	1696.4	1408.8	1190.0	1004.7	832.5	680.6	563.1	470.9
55°	3306.8	2622.1	2048.9	1620.5	1322.7	1103.9	918.6	751.5	613.8	503.4	429.4
57.5°	3272.3	2535.0	1944.6	1524.2	1224.5	995.6	813.3	660.3	537.8	449.7	393.0
60°	3195.3	2409.4	1816.9	1389.5	1083.7	866.9	694.8	563.1	459.8	396.0	358.5
62.5°	3027.2	2228.1	1631.6	1199.1	895.3	695.8	545.9	448.7	378.8	345.4	323.1
63°	2977.6	2165.3	1576.9	1148.5	862.9	657.3	512.5	424.4	361.6	334.2	316.0
65°	2716.3	1875.7	1332.8	923.7	668.4	498.3	390.9	333.2	299.8	289.7	284.6
67.5°	2226.1	1459.4	937.8	619.8	448.7	344.3	288.6	266.4	254.2	253.2	256.2
70°	1572.9	968.2	580.3	397.0	308.9	260.3	239.0	228.9	222.8	224.8	230.9
72.5°	1022.9	568.2	366.6	290.7	251.2	228.9	213.7	210.7	208.6	206.6	208.6
75°	540.8	355.5	277.5	243.1	219.8	201.5	191.4	187.4	188.4	188.4	188.4
77.5°	335.2	270.4	237.0	214.7	196.5	178.3	168.1	165.1	166.1	168.1	169.1
80°	257.2	236.0	208.6	192.4	166.1	150.9	145.8	144.8	146.9	146.9	149.9
82.5°	188.4	182.3	172.2	151.9	131.7	121.5	120.5	124.6	120.5	119.5	121.5
85°	110.4	103.3	112.4	96.2	88.1	82.0	86.1	94.2	98.2	93.2	91.2
87.5°	35.4	24.3	35.4	39.5	35.4	30.4	38.5	45.6	46.6	44.6	50.6
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: P145768

CATALOG NUMBER: LDRL-SLL-E06-E-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1695.4	1702.5	1695.4	1698.4	1697.4	1695.4	1698.4	1694.4	1692.4	1698.4	1697.4
5°	1759.2	1760.2	1751.1	1752.1	1751.1	1743.0	1743.0	1739.0	1733.9	1734.9	1732.9
7.5°	1810.9	1808.8	1801.8	1798.7	1789.6	1783.5	1779.5	1773.4	1769.3	1765.3	1763.3
10°	1850.4	1845.3	1840.2	1831.1	1822.0	1816.9	1805.8	1796.7	1793.6	1787.6	1783.5
12.5°	1884.8	1875.7	1867.6	1856.4	1845.3	1837.2	1824.0	1816.9	1811.9	1803.8	1797.7
15°	1904.0	1886.8	1871.6	1854.4	1842.3	1830.1	1814.9	1811.9	1804.8	1796.7	1785.5
17.5°	1880.7	1856.4	1828.1	1809.9	1791.6	1773.4	1758.2	1758.2	1755.2	1746.0	1726.8
20°	1833.1	1796.7	1763.3	1733.9	1715.7	1689.3	1680.2	1666.0	1655.9	1639.7	1615.4
22.5°	1755.2	1716.7	1673.1	1643.8	1612.4	1583.0	1564.8	1542.5	1534.4	1508.0	1475.6
25°	1668.1	1612.4	1565.8	1527.3	1483.7	1449.3	1424.0	1393.6	1373.3	1348.0	1307.5
27.5°	1564.8	1507.0	1454.4	1411.8	1366.3	1318.7	1272.1	1236.6	1200.2	1170.8	1147.5
30°	1453.4	1393.6	1328.8	1279.2	1226.5	1166.7	1128.2	1080.6	1052.3	1019.9	989.5
32.5°	1307.5	1254.8	1178.9	1121.2	1056.3	1009.8	978.4	932.8	899.4	872.0	854.8
35°	1147.5	1068.5	992.5	949.0	904.4	866.9	823.4	787.9	765.7	737.3	722.1
37.5°	973.3	881.1	816.3	777.8	732.2	714.0	686.7	665.4	645.1	625.9	613.8
40°	817.3	732.2	673.5	641.1	610.7	590.5	573.2	564.1	551.0	535.8	526.7
42.5°	687.7	619.8	562.1	531.7	508.4	506.4	495.3	488.2	483.1	474.0	459.8
45°	586.4	524.6	475.0	450.7	440.6	441.6	441.6	435.5	435.5	432.5	423.3
47.5°	518.5	462.8	426.4	410.2	406.1	407.1	404.1	402.1	403.1	402.1	397.0
50°	465.9	418.3	387.9	381.8	380.8	379.8	375.7	372.7	371.7	373.7	372.7
52.5°	412.2	372.7	355.5	353.5	354.5	354.5	353.5	352.5	354.5	356.5	353.5
55°	381.8	353.5	342.3	342.3	342.3	342.3	341.3	340.3	343.3	346.4	341.3
57.5°	353.5	333.2	329.2	329.2	329.2	327.1	327.1	328.1	332.2	338.3	332.2
60°	332.2	322.1	322.1	323.1	322.1	318.0	315.0	315.0	320.0	328.1	323.1
62.5°	311.9	306.9	308.9	307.9	305.9	300.8	296.7	296.7	302.8	310.9	313.0
63°	306.9	302.8	304.8	303.8	301.8	297.8	293.7	293.7	298.8	306.9	309.9
65°	284.6	285.6	286.6	287.6	286.6	285.6	280.5	278.5	282.6	288.6	292.7
67.5°	258.3	260.3	262.3	267.4	265.4	265.4	262.3	260.3	261.3	264.3	267.4
70°	234.0	236.0	239.0	241.0	242.1	243.1	241.0	238.0	239.0	240.0	242.1
72.5°	210.7	212.7	214.7	218.8	218.8	218.8	216.7	214.7	215.7	217.7	219.8
75°	189.4	190.4	192.4	195.5	196.5	194.5	194.5	192.4	193.4	196.5	198.5
77.5°	168.1	166.1	167.1	169.1	172.2	172.2	173.2	172.2	174.2	176.2	178.3
80°	143.8	141.8	139.8	140.8	144.8	149.9	155.0	155.0	158.0	159.0	162.0
82.5°	114.4	112.4	111.4	114.4	113.4	120.5	131.7	137.7	141.8	145.8	147.9
85°	89.1	84.1	86.1	86.1	84.1	95.2	105.3	113.4	114.4	120.5	121.5
87.5°	52.7	50.6	48.6	46.6	53.7	64.8	73.9	77.0	79.0	82.0	85.1
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: P145768

CATALOG NUMBER: LDRL-SLL-E06-E-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
2.5°	1689.3	1697.4	1695.4	1694.4	1695.4	1694.4	1691.4	1692.4	1690.3	1691.4	1689.3
5°	1721.7	1725.8	1722.8	1717.7	1717.7	1710.6	1705.5	1701.5	1696.4	1694.4	1690.3
7.5°	1753.1	1750.1	1746.0	1736.9	1731.9	1722.8	1715.7	1707.6	1702.5	1696.4	1689.3
10°	1772.4	1766.3	1758.2	1747.1	1732.9	1724.8	1714.7	1702.5	1696.4	1693.4	1686.3
12.5°	1781.5	1765.3	1752.1	1731.9	1711.6	1696.4	1685.3	1673.1	1670.1	1666.0	1661.0
15°	1760.2	1736.9	1703.5	1676.2	1649.8	1628.6	1619.4	1606.3	1603.2	1602.2	1601.2
17.5°	1688.3	1652.9	1620.5	1584.0	1560.7	1541.5	1533.4	1530.3	1525.3	1523.2	1524.2
20°	1572.9	1542.5	1510.1	1497.9	1470.6	1465.5	1453.4	1445.3	1436.1	1433.1	1428.0
22.5°	1438.2	1400.7	1380.4	1371.3	1360.2	1333.8	1327.8	1319.7	1307.5	1298.4	1296.4
25°	1281.2	1250.8	1249.8	1228.5	1219.4	1205.2	1189.0	1178.9	1171.8	1160.7	1152.6
27.5°	1121.2	1110.0	1090.8	1074.6	1068.5	1060.4	1036.1	1031.0	1022.9	1013.8	1004.7
30°	972.3	964.2	945.9	930.8	921.6	905.4	882.1	884.2	868.0	855.8	847.7
32.5°	827.4	821.4	804.2	800.1	770.7	762.6	738.3	720.1	703.9	691.7	681.6
35°	696.8	680.6	681.6	663.4	647.2	622.9	597.5	574.3	561.1	555.0	545.9
37.5°	602.6	587.4	572.2	552.0	533.7	516.5	501.3	494.2	486.1	488.2	489.2
40°	517.5	506.4	495.3	481.1	469.9	462.8	458.8	458.8	459.8	464.9	468.9
42.5°	456.8	447.7	441.6	436.5	438.5	438.5	441.6	446.6	451.7	458.8	462.8
45°	416.3	411.2	409.2	411.2	417.3	422.3	429.4	437.5	445.6	452.7	455.8
47.5°	391.9	388.9	388.9	394.0	403.1	411.2	422.3	430.4	439.6	445.6	447.7
50°	365.6	364.6	364.6	368.7	376.8	386.9	398.0	406.1	414.2	419.3	421.3
52.5°	350.4	347.4	346.4	351.4	358.5	368.7	379.8	387.9	394.0	398.0	399.0
55°	337.3	334.2	332.2	338.3	346.4	355.5	368.7	377.8	383.8	388.9	393.0
57.5°	326.1	323.1	321.1	328.1	336.2	347.4	358.5	368.7	376.8	382.8	386.9
60°	317.0	313.0	310.9	319.0	327.1	338.3	349.4	360.6	371.7	378.8	380.8
62.5°	305.9	302.8	299.8	304.8	308.9	317.0	327.1	338.3	348.4	355.5	355.5
63°	302.8	301.8	297.8	301.8	305.9	313.0	323.1	333.2	343.3	351.4	350.4
65°	289.7	289.7	287.6	291.7	295.7	302.8	310.9	322.1	331.2	337.3	338.3
67.5°	268.4	269.4	271.4	275.5	283.6	290.7	299.8	309.9	318.0	322.1	324.1
70°	244.1	246.1	250.2	256.2	263.3	269.4	275.5	285.6	292.7	296.7	298.8
72.5°	220.8	225.9	228.9	234.0	238.0	244.1	249.1	259.3	265.4	268.4	273.5
75°	199.5	203.6	205.6	208.6	212.7	214.7	220.8	224.8	232.9	237.0	243.1
77.5°	179.3	181.3	184.3	189.4	190.4	193.4	195.5	201.5	205.6	209.6	214.7
80°	161.0	163.1	167.1	170.1	171.2	173.2	174.2	173.2	172.2	169.1	173.2
82.5°	144.8	146.9	151.9	155.0	158.0	158.0	157.0	145.8	140.8	142.8	145.8
85°	119.5	121.5	126.6	132.7	133.7	132.7	133.7	122.5	115.5	112.4	115.5
87.5°	74.9	72.9	90.1	98.2	92.2	94.2	95.2	89.1	83.0	70.9	73.9
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: P145768  
 CATALOG NUMBER: LDRL-SLL-E06-E-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	0°
2.5°	1691.4	1684.3	1685.3	1687.3	1687.3	1690.3	1686.3	1681.2	1684.3	1679.2	1678.2	2.5°
5°	1690.3	1681.2	1681.2	1683.3	1681.2	1683.3	1680.2	1675.2	1678.2	1672.1	1671.1	5°
7.5°	1686.3	1681.2	1683.3	1685.3	1682.2	1683.3	1682.2	1675.2	1676.2	1673.1	1666.0	7.5°
10°	1684.3	1681.2	1685.3	1691.4	1691.4	1692.4	1689.3	1681.2	1676.2	1673.1	1667.1	10°
12.5°	1663.0	1667.1	1675.2	1689.3	1694.4	1702.5	1706.5	1702.5	1704.5	1700.5	1698.4	12.5°
15°	1602.2	1612.4	1625.5	1646.8	1662.0	1680.2	1702.5	1712.6	1731.9	1747.1	1757.2	15°
17.5°	1529.3	1536.4	1550.6	1574.9	1594.1	1630.6	1661.0	1695.4	1732.9	1773.4	1808.8	17.5°
20°	1439.2	1434.1	1456.4	1482.7	1516.1	1556.7	1601.2	1652.9	1714.7	1779.5	1841.3	20°
22.5°	1306.5	1306.5	1329.8	1361.2	1401.7	1448.3	1510.1	1565.8	1646.8	1741.0	1832.1	22.5°
25°	1154.6	1157.6	1173.8	1209.3	1237.6	1304.5	1362.2	1434.1	1531.3	1634.6	1756.2	25°
27.5°	992.5	1012.8	1008.7	1046.2	1083.7	1149.5	1228.5	1301.4	1409.8	1520.2	1658.9	27.5°
30°	845.7	842.6	841.6	886.2	923.7	983.4	1048.2	1140.4	1249.8	1391.6	1551.6	30°
32.5°	663.4	674.5	682.6	709.0	749.5	805.2	875.0	971.3	1102.9	1245.7	1426.0	32.5°
35°	547.9	551.0	562.1	577.3	612.7	659.3	732.2	817.3	932.8	1080.6	1272.1	35°
37.5°	491.2	494.2	506.4	520.6	545.9	580.3	630.0	695.8	802.1	939.9	1118.1	37.5°
40°	473.0	476.0	483.1	496.3	519.6	548.9	588.4	639.1	716.0	823.4	979.4	40°
42.5°	464.9	464.9	465.9	476.0	499.3	533.7	576.3	621.9	678.6	759.6	886.2	42.5°
45°	455.8	455.8	454.7	461.8	480.1	519.6	571.2	626.9	688.7	758.6	857.8	45°
47.5°	447.7	445.6	443.6	446.6	461.8	502.3	562.1	630.0	709.0	796.1	896.3	47.5°
50°	419.3	419.3	418.3	419.3	433.5	476.0	544.9	626.9	727.2	839.6	961.1	50°
52.5°	399.0	400.1	401.1	401.1	412.2	455.8	531.7	627.9	747.4	882.1	1036.1	52.5°
55°	394.0	396.0	396.0	394.0	403.1	442.6	519.6	624.9	761.6	929.7	1116.1	55°
57.5°	387.9	388.9	389.9	387.9	394.0	428.4	502.3	610.7	757.6	948.0	1175.8	57.5°
60°	379.8	375.7	374.7	371.7	375.7	403.1	472.0	580.3	733.3	939.9	1196.1	60°
62.5°	357.5	354.5	351.4	348.4	351.4	371.7	438.5	542.9	692.7	907.5	1179.9	62.5°
63°	352.5	350.4	347.4	344.3	344.3	366.6	427.4	533.7	682.6	898.3	1173.8	63°
65°	338.3	337.3	335.2	332.2	331.2	348.4	402.1	492.2	635.0	857.8	1135.3	65°
67.5°	322.1	322.1	321.1	317.0	311.9	322.1	359.5	430.4	552.0	753.5	1040.1	67.5°
70°	298.8	298.8	297.8	295.7	289.7	296.7	321.1	367.6	454.7	615.8	872.0	70°
72.5°	275.5	275.5	278.5	277.5	278.5	279.5	291.7	317.0	369.7	479.0	659.3	72.5°
75°	245.1	250.2	251.2	253.2	254.2	253.2	259.3	274.5	304.8	367.6	481.1	75°
77.5°	219.8	226.9	225.9	223.8	222.8	223.8	222.8	229.9	252.2	291.7	356.5	77.5°
80°	181.3	188.4	188.4	187.4	185.3	187.4	185.3	192.4	210.7	245.1	283.6	80°
82.5°	148.9	153.9	157.0	159.0	157.0	165.1	165.1	163.1	177.2	207.6	239.0	82.5°
85°	119.5	124.6	127.6	131.7	133.7	131.7	130.6	128.6	136.7	161.0	182.3	85°
87.5°	76.0	80.0	80.0	81.0	81.0	84.1	78.0	70.9	64.8	92.2	96.2	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: P145768

NUMBER: LDRL-SLL-E06-E-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1675.2	1675.2	1675.2	1675.2	1675.2	1675.2	1675.2
1675.2	1675.2	1676.2	1673.1	1676.2	1676.2	1673.1
1668.1	1666.0	1666.0	1665.0	1667.1	1666.0	1665.0
1662.0	1662.0	1657.9	1654.9	1653.9	1657.9	1655.9
1660.0	1657.9	1656.9	1654.9	1655.9	1658.9	1661.0
1696.4	1689.3	1691.4	1690.3	1691.4	1694.4	1700.5
1763.3	1763.3	1768.3	1757.2	1762.3	1767.3	1775.4
1838.2	1856.4	1865.6	1864.5	1866.6	1870.6	1879.7
1902.0	1959.7	2000.3	2010.4	2037.7	2043.8	2029.6
1930.4	2033.7	2124.8	2185.6	2253.5	2280.8	2288.9
1872.6	2021.5	2171.4	2311.2	2444.9	2521.8	2589.7
1812.9	1989.1	2188.6	2397.3	2615.0	2811.5	2958.4
1729.8	1962.8	2232.2	2513.7	2802.4	3075.8	3320.9
1638.7	1920.2	2236.2	2578.6	2935.1	3275.4	3572.1
1508.0	1821.0	2171.4	2568.4	2981.7	3408.0	3778.7
1358.2	1663.0	2056.0	2509.7	2978.6	3475.9	3920.5
1198.1	1510.1	1923.3	2409.4	2939.1	3497.2	4019.8
1077.6	1386.5	1791.6	2314.2	2880.4	3483.0	4067.4
1015.8	1280.2	1684.3	2221.0	2814.5	3448.5	4087.6
1028.0	1251.8	1620.5	2144.1	2755.8	3411.1	4082.6
1095.8	1294.3	1619.4	2115.7	2718.3	3376.6	4068.4
1198.1	1390.6	1678.2	2149.1	2738.6	3373.6	4067.4
1313.6	1525.3	1820.0	2239.3	2824.7	3428.3	4091.7
1425.0	1689.3	2002.3	2440.8	2987.7	3565.0	4189.9
1490.8	1839.2	2236.2	2725.4	3238.9	3805.0	4405.6
1506.0	1929.4	2443.9	3004.9	3583.2	4152.4	4741.9
1505.0	1938.5	2479.3	3062.7	3653.1	4232.4	4828.0
1481.7	1956.7	2574.5	3253.1	3933.7	4575.8	5187.5
1408.8	1924.3	2627.2	3430.3	4212.2	4954.6	5728.3
1241.7	1776.4	2565.4	3488.0	4378.3	5205.7	6088.9
972.3	1465.5	2215.0	3188.3	4153.4	4980.9	6098.0
683.6	1036.1	1704.5	2618.1	3394.9	4209.2	5446.8
476.0	671.5	1107.0	1761.2	2449.9	3070.8	4049.1
348.4	446.6	663.4	1053.3	1486.8	1919.2	2512.7
268.4	322.1	424.4	636.0	839.6	1074.6	1515.1
188.4	212.7	262.3	393.0	563.1	768.7	1110.0
82.0	96.2	126.6	231.9	380.8	366.6	349.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)