

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: P145761

Luminaire Tested: **LDRL-SLL-E05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145761
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13818.8 lumens
Efficiency: N/A
Efficacy: 108.6 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 - G4

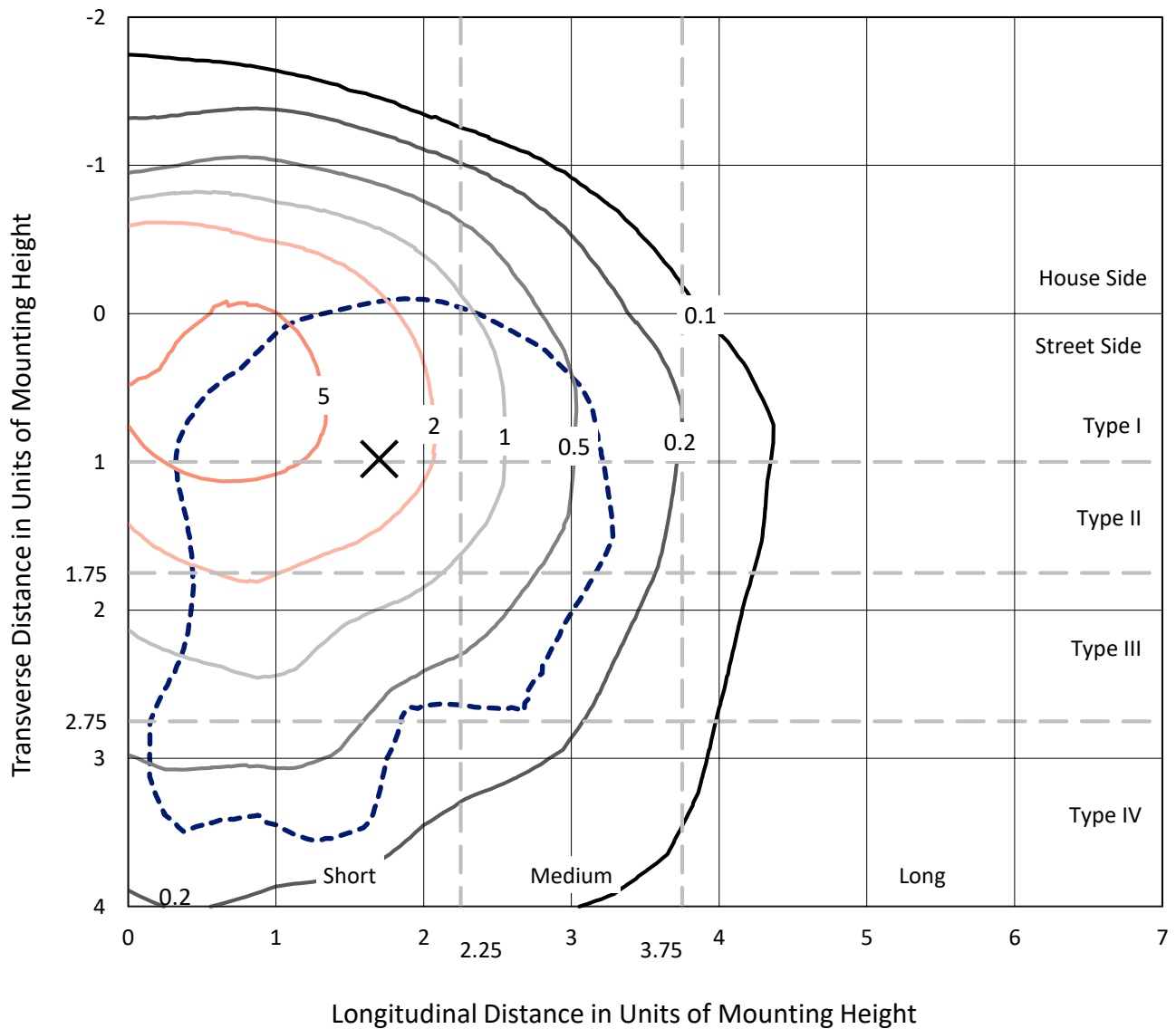
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

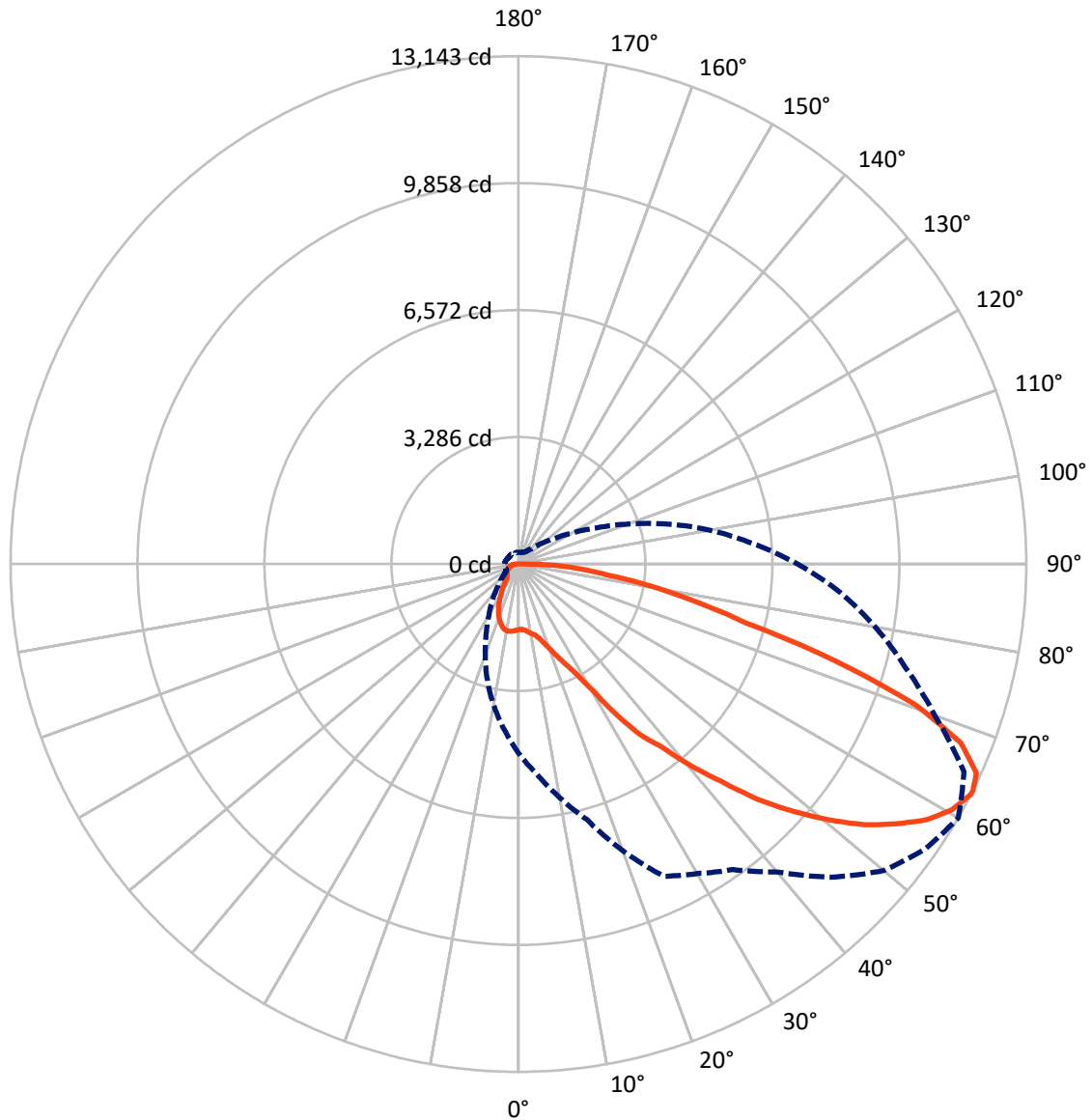
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.6 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	2892.7	0.0	2892.7
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	10926.1	0.0	10926.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	13818.8	0.0	13818.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	1.2
10°-20°	520.2	3.8
20°-30°	920.0	6.7
30°-40°	1452.4	10.5
40°-50°	2135.7	15.5
50°-60°	2813.3	20.4
60°-70°	3135.7	22.7
70°-80°	2060.3	14.9
80°-90°	614.4	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°	13818.8	100.0
0°-180°	13818.8	100.0

Coefficient of Utilization



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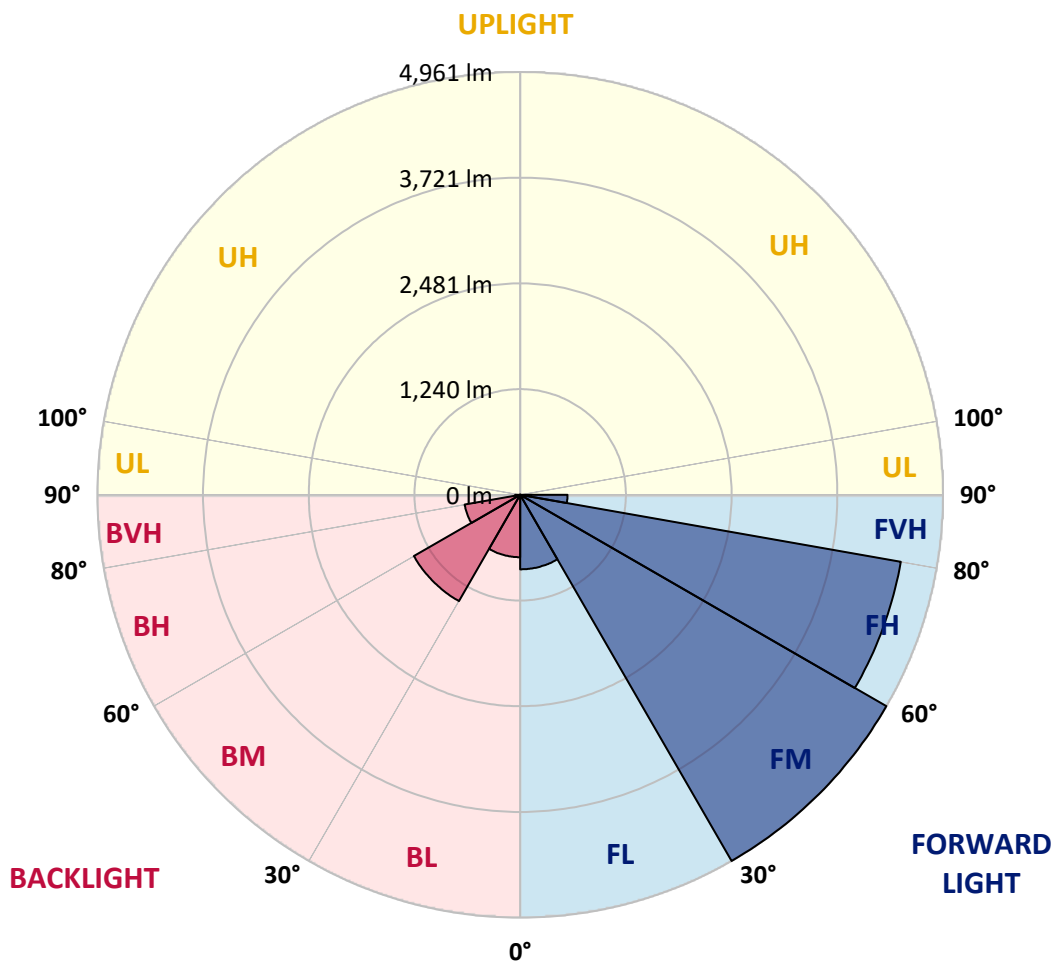
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	874.6	6.3			
FM	(30°-60°)	4961.3	35.9			
FH	(60°-80°)	4534.9	32.8			G2/5000
FVH	(80°-90°)	555.3	4.0			G4/750
BL	(0°-30°)	732.3	5.3	B2/1000		
BM	(30°-60°)	1440.2	10.4	B2/2500		
BH	(60°-80°)	661.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	59.1	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°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1695.1	1696.2	1693.1	1692.0	1690.0	1691.0	1691.0	1689.0	1689.0	1690.0	1686.9
5°	1686.9	1689.0	1687.9	1690.0	1692.0	1695.1	1698.2	1701.3	1704.4	1708.5	1709.5
7.5°	1677.7	1683.8	1684.9	1691.0	1698.2	1706.4	1716.7	1728.0	1743.4	1747.5	1756.7
10°	1682.8	1694.1	1700.3	1712.6	1723.9	1739.2	1757.7	1769.0	1788.5	1795.7	1809.0
12.5°	1722.8	1731.0	1739.2	1753.6	1770.0	1789.5	1810.0	1827.5	1848.0	1855.2	1860.3
15°	1798.8	1807.0	1816.2	1830.6	1848.0	1871.6	1901.4	1922.9	1947.5	1966.0	1979.4
17.5°	1904.5	1904.5	1926.0	1930.1	1964.0	1999.9	2036.8	2078.9	2104.5	2119.9	2144.6
20°	2056.3	2056.3	2085.0	2098.4	2127.1	2173.3	2223.6	2269.7	2306.7	2337.5	2360.0
22.5°	2319.0	2307.7	2332.3	2329.3	2364.1	2432.9	2482.1	2507.8	2557.1	2575.5	2605.3
25°	2623.8	2663.8	2690.4	2690.4	2704.8	2775.6	2816.7	2836.2	2881.3	2868.0	2898.7
27.5°	2997.3	3105.0	3204.5	3245.6	3226.1	3304.1	3318.4	3336.9	3331.8	3300.0	3290.7
30°	3364.6	3554.4	3709.4	3803.8	3912.5	4063.4	4063.4	4088.0	4034.6	3946.4	3894.1
32.5°	3619.1	3863.3	4100.3	4296.3	4481.0	4711.9	4809.4	4944.8	4967.4	5001.2	4884.3
35°	3828.4	4171.1	4425.6	4720.1	4945.8	5179.8	5439.4	5674.4	5830.3	5804.7	5758.5
37.5°	3972.1	4412.3	4767.3	5113.1	5456.8	5724.6	5970.9	6277.7	6576.3	6635.8	6510.6
40°	4072.6	4582.6	5071.0	5495.8	5927.8	6330.0	6629.7	6959.0	7427.0	7625.0	7522.4
42.5°	4120.8	4716.0	5260.8	5801.6	6348.5	6856.4	7232.0	7683.5	8238.6	8577.2	8464.3
45°	4141.4	4798.1	5414.8	6030.4	6687.1	7314.1	7798.4	8310.4	8935.3	9479.2	9499.7
47.5°	4136.2	4842.2	5520.4	6193.6	6952.9	7682.5	8332.0	8912.8	9620.8	10192.3	10404.7
50°	4121.9	4857.6	5584.1	6292.1	7120.1	7952.3	8683.9	9374.5	10165.6	10889.0	11212.3
52.5°	4120.8	4860.7	5615.9	6346.5	7218.7	8117.5	8904.5	9720.3	10587.4	11343.6	11847.4
55°	4145.5	4879.1	5650.8	6384.4	7272.0	8210.9	9028.7	9936.8	10771.0	11629.9	12280.4
57.5°	4245.0	4965.3	5733.9	6449.1	7331.5	8284.8	9125.2	9999.4	10825.4	11748.9	12531.8
60°	4463.6	5126.4	5878.6	6568.1	7486.5	8478.7	9216.5	9911.2	10722.8	11715.0	12567.7
62.5°	4804.2	5385.0	6080.7	6787.7	7801.5	8847.1	9254.4	9709.0	10469.4	11520.1	12412.8
63°	4891.4	5453.8	6134.1	6848.2	7892.8	8916.9	9251.4	9655.7	10399.6	11462.6	12343.0
65°	5255.7	5771.8	6382.4	7137.6	8308.4	9138.5	9139.5	9341.7	10043.5	11145.6	12056.7
67.5°	5803.7	6296.2	6768.2	7519.3	8768.1	9249.3	8808.1	8655.2	9276.0	10474.5	11330.3
70°	6168.9	6777.4	7042.2	7619.9	8830.7	9114.9	8283.7	7773.8	8288.9	9290.4	10050.7
72.5°	6178.2	6871.8	6948.8	7190.9	8244.8	8472.6	7380.8	6690.2	7000.1	7840.5	8240.7
75°	5518.4	6390.6	6232.6	6143.3	6713.8	6811.3	5969.9	5682.6	6079.7	6576.3	6376.2
77.5°	4102.4	5261.9	4940.7	4561.0	4768.3	4782.7	4809.4	5351.1	5838.5	6041.7	5750.3
80°	2545.8	3865.3	3619.1	2993.1	3073.2	3309.2	4017.2	4974.6	5508.1	5653.8	5071.0
82.5°	1535.1	2843.3	2712.0	2284.1	2384.7	2972.6	3755.5	4020.3	4199.8	4186.5	3584.2
85°	1124.6	1931.1	2109.7	2141.5	2498.6	2886.4	2870.0	2674.0	2564.2	2256.4	1926.0
87.5°	354.0	996.3	1182.1	1378.1	1509.4	1428.3	1404.7	1213.9	869.1	734.7	807.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1686.9	1691.0	1693.1	1692.0	1693.1	1693.1	1699.2	1697.2	1699.2	1698.2	1704.4
5°	1712.6	1718.7	1723.9	1723.9	1724.9	1726.9	1735.1	1735.1	1739.2	1747.5	1751.6
7.5°	1762.8	1771.1	1772.1	1774.1	1780.3	1777.2	1782.3	1784.4	1787.5	1791.6	1796.7
10°	1815.2	1826.5	1826.5	1825.4	1826.5	1818.3	1821.3	1815.2	1816.2	1822.4	1828.5
12.5°	1873.7	1879.8	1875.7	1872.6	1872.6	1857.3	1855.2	1847.0	1842.9	1843.9	1846.0
15°	1990.6	1985.5	1984.5	1979.4	1960.9	1949.6	1941.4	1915.7	1902.4	1895.2	1882.9
17.5°	2146.6	2149.7	2144.6	2139.4	2112.8	2074.8	2058.4	2030.7	2012.2	1993.7	1971.1
20°	2374.4	2353.9	2351.8	2335.4	2298.5	2245.1	2205.1	2160.0	2134.3	2107.6	2084.0
22.5°	2625.8	2604.3	2589.9	2558.1	2503.7	2436.0	2369.3	2311.8	2272.8	2253.3	2236.9
25°	2904.9	2892.6	2869.0	2787.9	2744.8	2666.8	2594.0	2537.6	2493.4	2477.0	2448.3
27.5°	3239.4	3248.6	3204.5	3128.6	3074.2	2964.4	2901.8	2804.3	2767.4	2707.9	2671.0
30°	3848.9	3789.4	3714.5	3598.6	3488.8	3341.0	3237.4	3135.8	3081.4	3001.4	2902.9
32.5°	4845.3	4618.5	4417.4	4171.1	3938.2	3749.4	3599.6	3471.3	3388.2	3255.8	3088.6
35°	5648.7	5430.2	5097.7	4739.6	4433.8	4191.6	4002.8	3881.8	3715.5	3504.2	3262.0
37.5°	6237.7	5986.3	5675.4	5401.4	5067.9	4798.1	4542.6	4291.2	4057.2	3737.1	3428.2
40°	7194.0	6853.4	6341.3	6018.1	5745.2	5379.9	5140.8	4802.2	4446.1	4033.6	3586.2
42.5°	8140.1	7688.6	7224.8	6853.4	6465.5	6069.4	5741.1	5286.5	4813.5	4278.9	3727.8
45°	9239.1	8686.0	8079.6	7560.3	7162.2	6696.4	6275.7	5717.5	5114.1	4480.0	3851.0
47.5°	10105.1	9557.1	8872.7	8349.4	7812.8	7287.4	6741.5	6053.0	5337.8	4644.2	3965.9
50°	10935.2	10406.8	9679.3	9036.9	8420.2	7786.1	7126.3	6291.1	5513.3	4772.4	4057.2
52.5°	11680.2	11210.2	10424.2	9656.7	8967.1	8236.5	7418.7	6513.7	5681.5	4904.8	4129.0
55°	12311.2	11871.0	11166.1	10210.8	9427.9	8619.3	7694.8	6716.9	5859.1	5043.3	4181.4
57.5°	12735.0	12480.5	11727.4	10698.2	9806.5	8945.6	7903.1	6921.1	6025.3	5129.5	4204.0
60°	12932.0	12898.1	12260.9	11138.4	10143.1	9200.1	8165.7	7137.6	6135.1	5168.5	4172.1
62.5°	12891.0	13133.1	12667.3	11440.0	10357.5	9359.1	8334.0	7231.0	6107.4	5074.1	4031.6
63°	12853.0	13143.4	12724.7	11469.8	10375.0	9374.5	8350.4	7219.7	6081.7	5032.0	3983.3
65°	12574.9	13022.3	12739.1	11416.4	10294.9	9330.4	8276.6	7042.2	5826.2	4767.3	3710.4
67.5°	11893.6	12342.0	12185.0	10828.5	9776.7	8856.3	7760.4	6437.8	5200.3	4205.0	3204.5
70°	10486.8	10888.0	10700.2	9506.9	8530.0	7877.4	6835.9	5354.2	4236.8	3380.0	2439.1
72.5°	8295.0	8577.2	8618.3	7670.1	6922.1	6530.1	5507.1	4038.8	3094.7	2353.9	1583.3
75°	6142.3	6076.6	6089.9	5560.5	5255.7	5090.5	4116.7	2770.5	2085.0	1438.6	938.9
77.5°	5162.3	4690.3	4288.1	4141.4	3786.3	3683.7	2715.1	1700.3	1217.0	860.9	534.6
80°	4197.8	3482.6	2897.7	2638.1	2499.6	2520.1	1502.2	906.1	637.2	468.9	334.5
82.5°	2870.0	2326.2	1834.7	1593.5	1568.9	1592.5	780.9	444.3	336.6	269.9	210.4
85°	1697.2	1597.6	1426.3	1266.2	1210.8	1143.1	580.8	318.1	173.4	143.7	118.0
87.5°	733.7	900.9	922.5	918.4	854.7	686.5	213.4	82.1	72.9	36.9	29.8
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°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1704.4	1705.4	1703.3	1705.4	1712.6	1712.6	1711.5	1713.6	1714.6	1720.8	1718.7
5°	1755.7	1756.7	1757.7	1764.9	1770.0	1776.2	1774.1	1776.2	1780.3	1781.3	1783.4
7.5°	1802.9	1809.0	1817.2	1820.3	1829.5	1831.6	1840.8	1841.9	1843.9	1839.8	1835.7
10°	1835.7	1841.9	1852.1	1857.3	1873.7	1875.7	1882.9	1885.0	1889.1	1886.0	1882.9
12.5°	1852.1	1857.3	1868.5	1878.8	1901.4	1908.6	1920.9	1928.1	1933.2	1930.1	1919.8
15°	1886.0	1885.0	1891.1	1899.3	1919.8	1933.2	1950.6	1959.9	1966.0	1960.9	1947.5
17.5°	1964.0	1949.6	1949.6	1944.5	1959.9	1962.9	1970.1	1975.3	1973.2	1957.8	1936.3
20°	2071.7	2050.2	2036.8	2024.5	2019.4	1993.7	1980.4	1961.9	1945.5	1917.8	1893.2
22.5°	2211.3	2195.9	2165.1	2137.4	2098.4	2046.1	1989.6	1941.4	1905.5	1867.5	1825.4
25°	2422.6	2387.7	2343.6	2278.0	2227.7	2135.3	2040.9	1949.6	1872.6	1813.1	1742.3
27.5°	2621.7	2547.8	2464.7	2362.1	2269.7	2146.6	2026.6	1920.9	1820.3	1724.9	1643.8
30°	2787.9	2659.7	2524.2	2380.6	2249.2	2100.4	1960.9	1840.8	1726.9	1614.1	1537.1
32.5°	2913.1	2728.4	2547.8	2364.1	2202.0	2027.6	1867.5	1739.2	1610.0	1490.9	1401.7
35°	3026.0	2776.6	2540.6	2320.0	2128.1	1935.2	1762.8	1619.2	1477.6	1350.4	1247.7
37.5°	3107.0	2793.1	2509.9	2256.4	2033.7	1822.4	1635.6	1482.7	1330.9	1201.6	1088.7
40°	3169.6	2784.9	2451.4	2158.9	1904.5	1684.9	1502.2	1342.1	1190.3	1061.0	943.0
42.5°	3211.7	2754.1	2363.1	2048.1	1796.7	1566.9	1388.3	1220.0	1068.2	932.7	802.4
45°	3266.1	2741.8	2308.7	1965.0	1699.2	1467.3	1276.5	1112.3	954.3	812.7	688.5
47.5°	3317.4	2734.6	2264.6	1896.2	1611.0	1377.0	1188.2	1015.8	856.8	718.3	605.4
50°	3348.2	2723.3	2218.4	1813.1	1512.5	1284.7	1104.1	929.7	769.6	637.2	536.7
52.5°	3357.4	2700.7	2157.9	1718.7	1427.3	1205.7	1017.9	843.5	689.5	570.5	477.1
55°	3350.2	2656.6	2075.8	1641.8	1340.1	1118.5	930.7	761.4	621.8	510.0	435.1
57.5°	3315.3	2568.3	1970.1	1544.3	1240.6	1008.7	824.0	669.0	544.9	455.6	398.1
60°	3237.4	2441.1	1840.8	1407.8	1097.9	878.3	703.9	570.5	465.9	401.2	363.2
62.5°	3067.0	2257.4	1653.1	1214.9	907.1	704.9	553.1	454.6	383.8	349.9	327.3
63°	3016.8	2193.8	1597.6	1163.6	874.2	665.9	519.2	429.9	366.3	338.6	320.1
65°	2752.0	1900.3	1350.4	935.8	677.2	504.8	396.1	337.6	303.7	293.5	288.3
67.5°	2255.4	1478.6	950.2	628.0	454.6	348.9	292.4	269.9	257.6	256.5	259.6
70°	1593.5	981.0	588.0	402.2	313.0	263.7	242.2	231.9	225.7	227.8	234.0
72.5°	1036.4	575.6	371.5	294.5	254.5	231.9	216.5	213.4	211.4	209.3	211.4
75°	547.9	360.2	281.2	246.3	222.7	204.2	193.9	189.8	190.9	190.9	190.9
77.5°	339.6	274.0	240.1	217.5	199.1	180.6	170.3	167.3	168.3	170.3	171.4
80°	260.6	239.1	211.4	195.0	168.3	152.9	147.8	146.7	148.8	148.8	151.9
82.5°	190.9	184.7	174.4	153.9	133.4	123.1	122.1	126.2	122.1	121.1	123.1
85°	111.8	104.7	113.9	97.5	89.3	83.1	87.2	95.4	99.5	94.4	92.3
87.5°	35.9	24.6	35.9	40.0	35.9	30.8	39.0	46.2	47.2	45.1	51.3
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: P145761

CATALOG NUMBER: LDRL-SLL-E05-E-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1717.7	1724.9	1717.7	1720.8	1719.8	1717.7	1720.8	1716.7	1714.6	1720.8	1719.8
5°	1782.3	1783.4	1774.1	1775.2	1774.1	1765.9	1765.9	1761.8	1756.7	1757.7	1755.7
7.5°	1834.7	1832.6	1825.4	1822.4	1813.1	1807.0	1802.9	1796.7	1792.6	1788.5	1786.4
10°	1874.7	1869.6	1864.4	1855.2	1846.0	1840.8	1829.5	1820.3	1817.2	1811.1	1807.0
12.5°	1909.6	1900.3	1892.1	1880.9	1869.6	1861.4	1848.0	1840.8	1835.7	1827.5	1821.3
15°	1929.1	1911.6	1896.2	1878.8	1866.5	1854.2	1838.8	1835.7	1828.5	1820.3	1809.0
17.5°	1905.5	1880.9	1852.1	1833.7	1815.2	1796.7	1781.3	1781.3	1778.2	1769.0	1749.5
20°	1857.3	1820.3	1786.4	1756.7	1738.2	1711.5	1702.3	1687.9	1677.7	1661.3	1636.6
22.5°	1778.2	1739.2	1695.1	1665.4	1633.6	1603.8	1585.3	1562.8	1554.5	1527.9	1495.0
25°	1690.0	1633.6	1586.4	1547.4	1503.2	1468.4	1442.7	1411.9	1391.4	1365.7	1324.7
27.5°	1585.3	1526.8	1473.5	1430.4	1384.2	1336.0	1288.8	1252.9	1215.9	1186.2	1162.6
30°	1472.5	1411.9	1346.3	1296.0	1242.6	1182.1	1143.1	1094.9	1066.1	1033.3	1002.5
32.5°	1324.7	1271.3	1194.4	1135.9	1070.2	1023.0	991.2	945.0	911.2	883.5	866.0
35°	1162.6	1082.5	1005.6	961.5	916.3	878.3	834.2	798.3	775.7	747.0	731.6
37.5°	986.1	892.7	827.0	788.0	741.9	723.4	695.7	674.2	653.6	634.1	621.8
40°	828.1	741.9	682.4	649.5	618.7	598.2	580.8	571.5	558.2	542.8	533.6
42.5°	696.7	628.0	569.5	538.7	515.1	513.1	501.8	494.6	489.5	480.2	465.9
45°	594.1	531.5	481.2	456.6	446.4	447.4	447.4	441.2	441.2	438.1	428.9
47.5°	525.4	468.9	432.0	415.6	411.5	412.5	409.4	407.4	408.4	407.4	402.2
50°	472.0	423.8	393.0	386.8	385.8	384.8	380.7	377.6	376.6	378.6	377.6
52.5°	417.6	377.6	360.2	358.1	359.1	359.1	358.1	357.1	359.1	361.2	358.1
55°	386.8	358.1	346.8	346.8	346.8	346.8	345.8	344.8	347.8	350.9	345.8
57.5°	358.1	337.6	333.5	333.5	333.5	331.4	331.4	332.5	336.6	342.7	336.6
60°	336.6	326.3	326.3	327.3	326.3	322.2	319.1	319.1	324.2	332.5	327.3
62.5°	316.0	310.9	313.0	311.9	309.9	304.8	300.6	300.6	306.8	315.0	317.1
63°	310.9	306.8	308.9	307.8	305.8	301.7	297.6	297.6	302.7	310.9	314.0
65°	288.3	289.4	290.4	291.4	290.4	289.4	284.2	282.2	286.3	292.4	296.5
67.5°	261.7	263.7	265.8	270.9	268.8	268.8	265.8	263.7	264.7	267.8	270.9
70°	237.0	239.1	242.2	244.2	245.2	246.3	244.2	241.1	242.2	243.2	245.2
72.5°	213.4	215.5	217.5	221.6	221.6	221.6	219.6	217.5	218.6	220.6	222.7
75°	191.9	192.9	195.0	198.0	199.1	197.0	197.0	195.0	196.0	199.1	201.1
77.5°	170.3	168.3	169.3	171.4	174.4	174.4	175.5	174.4	176.5	178.5	180.6
80°	145.7	143.7	141.6	142.6	146.7	151.9	157.0	157.0	160.1	161.1	164.2
82.5°	115.9	113.9	112.9	115.9	114.9	122.1	133.4	139.6	143.7	147.8	149.8
85°	90.3	85.2	87.2	87.2	85.2	96.5	106.7	114.9	115.9	122.1	123.1
87.5°	53.4	51.3	49.3	47.2	54.4	65.7	74.9	78.0	80.0	83.1	86.2
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
2.5°	1711.5	1719.8	1717.7	1716.7	1717.7	1716.7	1713.6	1714.6	1712.6	1713.6	1711.5
5°	1744.4	1748.5	1745.4	1740.3	1740.3	1733.1	1728.0	1723.9	1718.7	1716.7	1712.6
7.5°	1776.2	1773.1	1769.0	1759.8	1754.6	1745.4	1738.2	1730.0	1724.9	1718.7	1711.5
10°	1795.7	1789.5	1781.3	1770.0	1755.7	1747.5	1737.2	1724.9	1718.7	1715.6	1708.5
12.5°	1804.9	1788.5	1775.2	1754.6	1734.1	1718.7	1707.4	1695.1	1692.0	1687.9	1682.8
15°	1783.4	1759.8	1725.9	1698.2	1671.5	1650.0	1640.7	1627.4	1624.3	1623.3	1622.3
17.5°	1710.5	1674.6	1641.8	1604.8	1581.2	1561.7	1553.5	1550.4	1545.3	1543.3	1544.3
20°	1593.5	1562.8	1529.9	1517.6	1489.9	1484.8	1472.5	1464.3	1455.0	1451.9	1446.8
22.5°	1457.1	1419.1	1398.6	1389.3	1378.1	1351.4	1345.2	1337.0	1324.7	1315.5	1313.4
25°	1298.0	1267.2	1266.2	1244.7	1235.4	1221.1	1204.6	1194.4	1187.2	1175.9	1167.7
27.5°	1135.9	1124.6	1105.1	1088.7	1082.5	1074.3	1049.7	1044.6	1036.4	1027.1	1017.9
30°	985.1	976.9	958.4	943.0	933.8	917.3	893.7	895.8	879.4	867.1	858.9
32.5°	838.3	832.2	814.7	810.6	780.9	772.7	748.0	729.6	713.1	700.8	690.6
35°	706.0	689.5	690.6	672.1	655.7	631.1	605.4	581.8	568.5	562.3	553.1
37.5°	610.5	595.1	579.7	559.2	540.8	523.3	507.9	500.7	492.5	494.6	495.6
40°	524.3	513.1	501.8	487.4	476.1	468.9	464.8	464.8	465.9	471.0	475.1
42.5°	462.8	453.5	447.4	442.3	444.3	444.3	447.4	452.5	457.6	464.8	468.9
45°	421.7	416.6	414.5	416.6	422.8	427.9	435.1	443.3	451.5	458.7	461.7
47.5°	397.1	394.0	394.0	399.2	408.4	416.6	427.9	436.1	445.3	451.5	453.5
50°	370.4	369.4	369.4	373.5	381.7	392.0	403.3	411.5	419.7	424.8	426.9
52.5°	355.0	352.0	350.9	356.1	363.2	373.5	384.8	393.0	399.2	403.3	404.3
55°	341.7	338.6	336.6	342.7	350.9	360.2	373.5	382.7	388.9	394.0	398.1
57.5°	330.4	327.3	325.3	332.5	340.7	352.0	363.2	373.5	381.7	387.9	392.0
60°	321.2	317.1	315.0	323.2	331.4	342.7	354.0	365.3	376.6	383.8	385.8
62.5°	309.9	306.8	303.7	308.9	313.0	321.2	331.4	342.7	353.0	360.2	360.2
63°	306.8	305.8	301.7	305.8	309.9	317.1	327.3	337.6	347.8	356.1	355.0
65°	293.5	293.5	291.4	295.5	299.6	306.8	315.0	326.3	335.5	341.7	342.7
67.5°	271.9	272.9	275.0	279.1	287.3	294.5	303.7	314.0	322.2	326.3	328.4
70°	247.3	249.3	253.4	259.6	266.8	272.9	279.1	289.4	296.5	300.6	302.7
72.5°	223.7	228.8	231.9	237.0	241.1	247.3	252.4	262.7	268.8	271.9	277.0
75°	202.1	206.2	208.3	211.4	215.5	217.5	223.7	227.8	236.0	240.1	246.3
77.5°	181.6	183.7	186.8	191.9	192.9	196.0	198.0	204.2	208.3	212.4	217.5
80°	163.2	165.2	169.3	172.4	173.4	175.5	176.5	175.5	174.4	171.4	175.5
82.5°	146.7	148.8	153.9	157.0	160.1	160.1	159.0	147.8	142.6	144.7	147.8
85°	121.1	123.1	128.3	134.4	135.4	134.4	135.4	124.2	117.0	113.9	117.0
87.5°	75.9	73.9	91.3	99.5	93.4	95.4	96.5	90.3	84.1	71.8	74.9
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: P145761
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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	0°
2.5°	1713.6	1706.4	1707.4	1709.5	1709.5	1712.6	1708.5	1703.3	1706.4	1701.3	1700.3	2.5°
5°	1712.6	1703.3	1703.3	1705.4	1703.3	1705.4	1702.3	1697.2	1700.3	1694.1	1693.1	5°
7.5°	1708.5	1703.3	1705.4	1707.4	1704.4	1705.4	1704.4	1697.2	1698.2	1695.1	1687.9	7.5°
10°	1706.4	1703.3	1707.4	1713.6	1713.6	1714.6	1711.5	1703.3	1698.2	1695.1	1689.0	10°
12.5°	1684.9	1689.0	1697.2	1711.5	1716.7	1724.9	1729.0	1724.9	1726.9	1722.8	1720.8	12.5°
15°	1623.3	1633.6	1646.9	1668.4	1683.8	1702.3	1724.9	1735.1	1754.6	1770.0	1780.3	15°
17.5°	1549.4	1556.6	1571.0	1595.6	1615.1	1652.0	1682.8	1717.7	1755.7	1796.7	1832.6	17.5°
20°	1458.1	1453.0	1475.5	1502.2	1536.1	1577.1	1622.3	1674.6	1737.2	1802.9	1865.5	20°
22.5°	1323.7	1323.7	1347.3	1379.1	1420.1	1467.3	1529.9	1586.4	1668.4	1763.9	1856.2	22.5°
25°	1169.8	1172.8	1189.3	1225.2	1253.9	1321.6	1380.1	1453.0	1551.5	1656.1	1779.3	25°
27.5°	1005.6	1026.1	1022.0	1060.0	1097.9	1164.6	1244.7	1318.5	1428.3	1540.2	1680.8	27.5°
30°	856.8	853.7	852.7	897.8	935.8	996.3	1062.0	1155.4	1266.2	1409.9	1572.0	30°
32.5°	672.1	683.4	691.6	718.3	759.3	815.8	886.6	984.0	1117.4	1262.1	1444.8	32.5°
35°	555.1	558.2	569.5	584.9	620.8	668.0	741.9	828.1	945.0	1094.9	1288.8	35°
37.5°	497.7	500.7	513.1	527.4	553.1	588.0	638.2	704.9	812.7	952.2	1132.8	37.5°
40°	479.2	482.3	489.5	502.8	526.4	556.1	596.2	647.5	725.5	834.2	992.2	40°
42.5°	471.0	471.0	472.0	482.3	505.9	540.8	583.9	630.0	687.5	769.6	897.8	42.5°
45°	461.7	461.7	460.7	467.9	486.4	526.4	578.7	635.2	697.8	768.6	869.1	45°
47.5°	453.5	451.5	449.4	452.5	467.9	508.9	569.5	638.2	718.3	806.5	908.1	47.5°
50°	424.8	424.8	423.8	424.8	439.2	482.3	552.0	635.2	736.7	850.6	973.8	50°
52.5°	404.3	405.3	406.3	406.3	417.6	461.7	538.7	636.2	757.3	893.7	1049.7	52.5°
55°	399.2	401.2	401.2	399.2	408.4	448.4	526.4	633.1	771.6	942.0	1130.8	55°
57.5°	393.0	394.0	395.1	393.0	399.2	434.0	508.9	618.7	767.5	960.4	1191.3	57.5°
60°	384.8	380.7	379.7	376.6	380.7	408.4	478.2	588.0	742.9	952.2	1211.8	60°
62.5°	362.2	359.1	356.1	353.0	356.1	376.6	444.3	550.0	701.9	919.4	1195.4	62.5°
63°	357.1	355.0	352.0	348.9	348.9	371.5	433.0	540.8	691.6	910.2	1189.3	63°
65°	342.7	341.7	339.6	336.6	335.5	353.0	407.4	498.7	643.4	869.1	1150.3	65°
67.5°	326.3	326.3	325.3	321.2	316.0	326.3	364.3	436.1	559.2	763.4	1053.8	67.5°
70°	302.7	302.7	301.7	299.6	293.5	300.6	325.3	372.5	460.7	623.9	883.5	70°
72.5°	279.1	279.1	282.2	281.2	282.2	283.2	295.5	321.2	374.5	485.3	668.0	72.5°
75°	248.3	253.4	254.5	256.5	257.6	256.5	262.7	278.1	308.9	372.5	487.4	75°
77.5°	222.7	229.8	228.8	226.8	225.7	226.8	225.7	232.9	255.5	295.5	361.2	77.5°
80°	183.7	190.9	190.9	189.8	187.8	189.8	187.8	195.0	213.4	248.3	287.3	80°
82.5°	150.8	156.0	159.0	161.1	159.0	167.3	167.3	165.2	179.6	210.4	242.2	82.5°
85°	121.1	126.2	129.3	133.4	135.4	133.4	132.4	130.3	138.5	163.2	184.7	85°
87.5°	77.0	81.1	81.1	82.1	82.1	85.2	79.0	71.8	65.7	93.4	97.5	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: P145761

NUMBER: LDRL-SLL-E05-E-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1697.2	1697.2	1697.2	1697.2	1697.2	1697.2	1697.2
1697.2	1697.2	1698.2	1695.1	1698.2	1698.2	1695.1
1690.0	1687.9	1687.9	1686.9	1689.0	1687.9	1686.9
1683.8	1683.8	1679.7	1676.7	1675.6	1679.7	1677.7
1681.8	1679.7	1678.7	1676.7	1677.7	1680.8	1682.8
1718.7	1711.5	1713.6	1712.6	1713.6	1716.7	1722.8
1786.4	1786.4	1791.6	1780.3	1785.4	1790.6	1798.8
1862.4	1880.9	1890.1	1889.1	1891.1	1895.2	1904.5
1927.0	1985.5	2026.6	2036.8	2064.5	2070.7	2056.3
1955.8	2060.4	2152.8	2214.3	2283.1	2310.8	2319.0
1897.3	2048.1	2200.0	2341.6	2477.0	2555.0	2623.8
1836.7	2015.3	2217.4	2428.8	2649.4	2848.5	2997.3
1752.6	1988.6	2261.5	2546.8	2839.2	3116.3	3364.6
1660.2	1945.5	2265.6	2612.5	2973.7	3318.4	3619.1
1527.9	1844.9	2200.0	2602.2	3020.9	3452.8	3828.4
1376.0	1684.9	2083.0	2542.7	3017.8	3521.6	3972.1
1213.9	1529.9	1948.6	2441.1	2977.8	3543.1	4072.6
1091.8	1404.7	1815.2	2344.7	2918.2	3528.8	4120.8
1029.2	1297.0	1706.4	2250.2	2851.5	3493.9	4141.4
1041.5	1268.3	1641.8	2172.3	2792.0	3455.9	4136.2
1110.2	1311.4	1640.7	2143.5	2754.1	3421.0	4121.9
1213.9	1408.8	1700.3	2177.4	2774.6	3418.0	4120.8
1330.9	1545.3	1843.9	2268.7	2861.8	3473.4	4145.5
1443.7	1711.5	2028.6	2472.9	3027.0	3611.9	4245.0
1510.4	1863.4	2265.6	2761.2	3281.5	3855.1	4463.6
1525.8	1954.7	2476.0	3044.5	3630.4	4207.0	4804.2
1524.8	1964.0	2511.9	3102.9	3701.2	4288.1	4891.4
1501.2	1982.4	2608.4	3295.9	3985.4	4635.9	5255.7
1427.3	1949.6	2661.7	3475.4	4267.6	5019.7	5803.7
1258.0	1799.8	2599.1	3533.9	4435.9	5274.2	6168.9
985.1	1484.8	2244.1	3230.2	4208.1	5046.4	6178.2
692.6	1049.7	1726.9	2652.5	3439.5	4264.5	5518.4
482.3	680.3	1121.5	1784.4	2482.1	3111.2	4102.4
353.0	452.5	672.1	1067.1	1506.3	1944.5	2545.8
271.9	326.3	429.9	644.4	850.6	1088.7	1535.1
190.9	215.5	265.8	398.1	570.5	778.8	1124.6
83.1	97.5	128.3	235.0	385.8	371.5	354.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)