

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: P146069

Luminaire Tested: **LDRL-SLR-E06-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146069
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-E06-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14760.3 lumens
Efficiency: N/A
Efficacy: 98.1 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

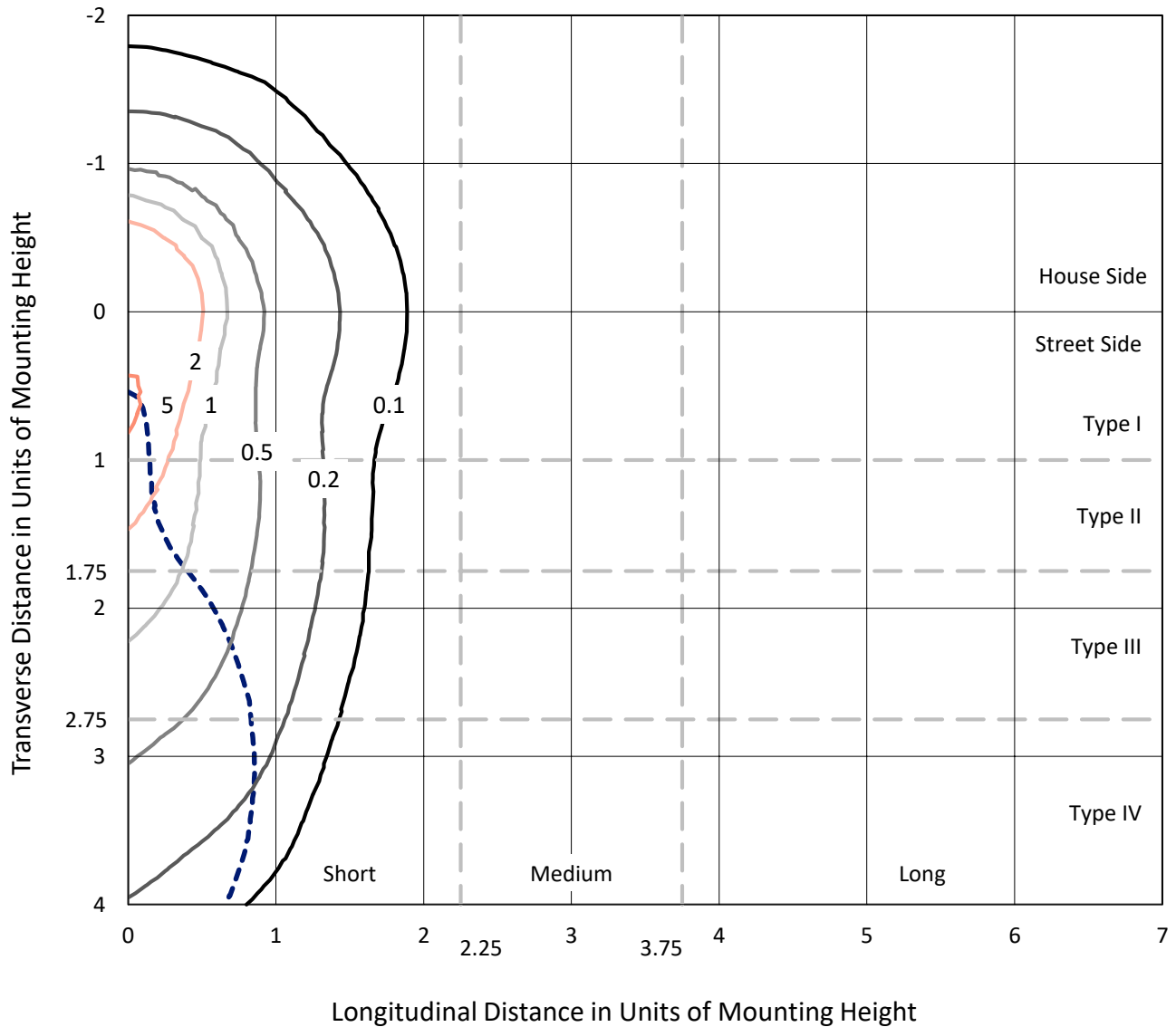


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Iso-Footcandle Lines of Horizontal Illumination

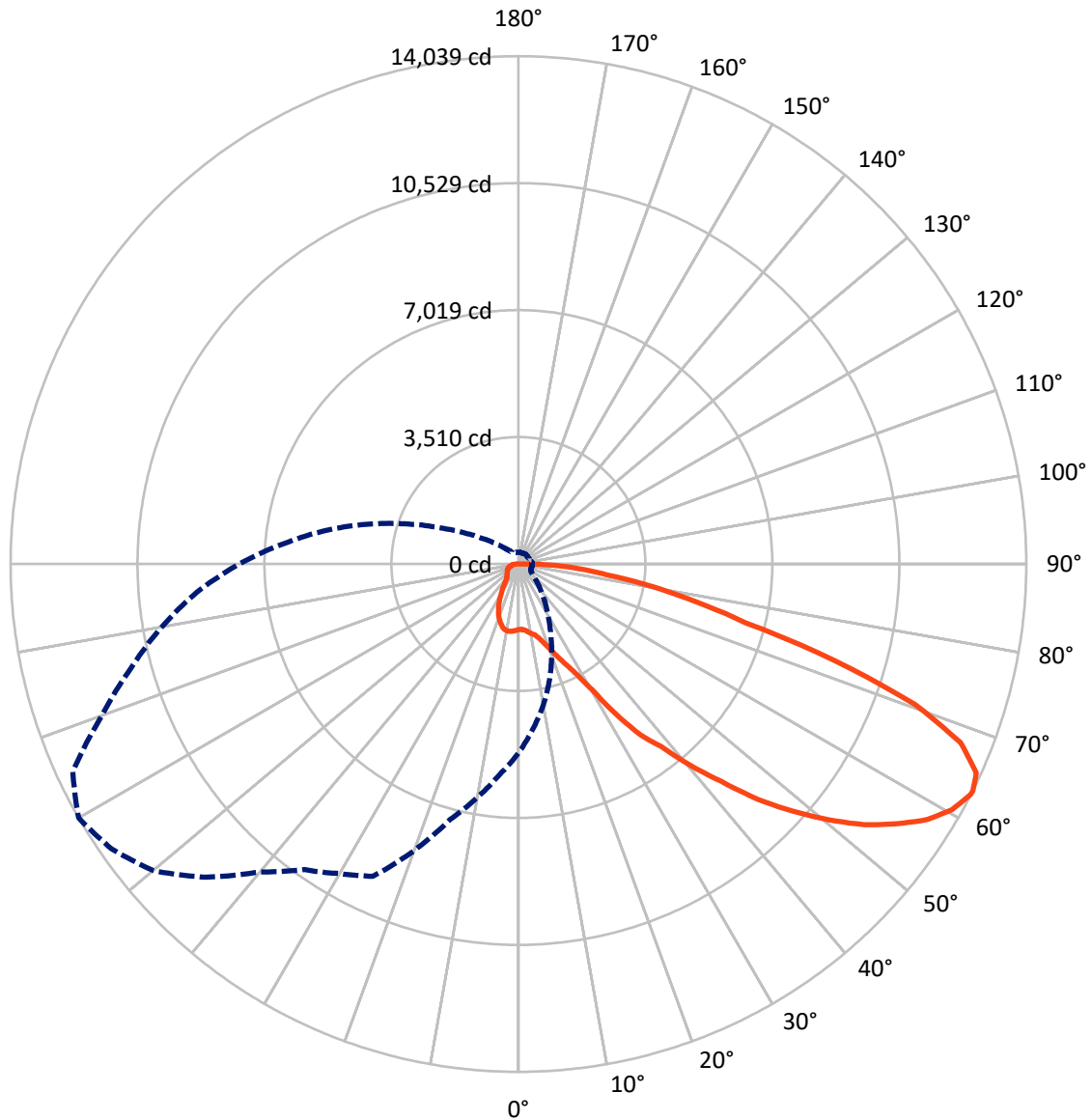
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 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	3089.8	0.0	3089.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	11670.6	0.0	11670.6
	% Fixture	79.1	0.0	79.1
Total	Lumens	14760.3	0.0	14760.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.0	1.2
10°-20°	555.7	3.8
20°-30°	982.7	6.7
30°-40°	1551.4	10.5
40°-50°	2281.3	15.5
50°-60°	3005.0	20.4
60°-70°	3349.4	22.7
70°-80°	2200.6	14.9
80°-90°	656.3	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°	14760.3	100.0
0°-180°	14760.3	100.0

Coefficient of Utilization



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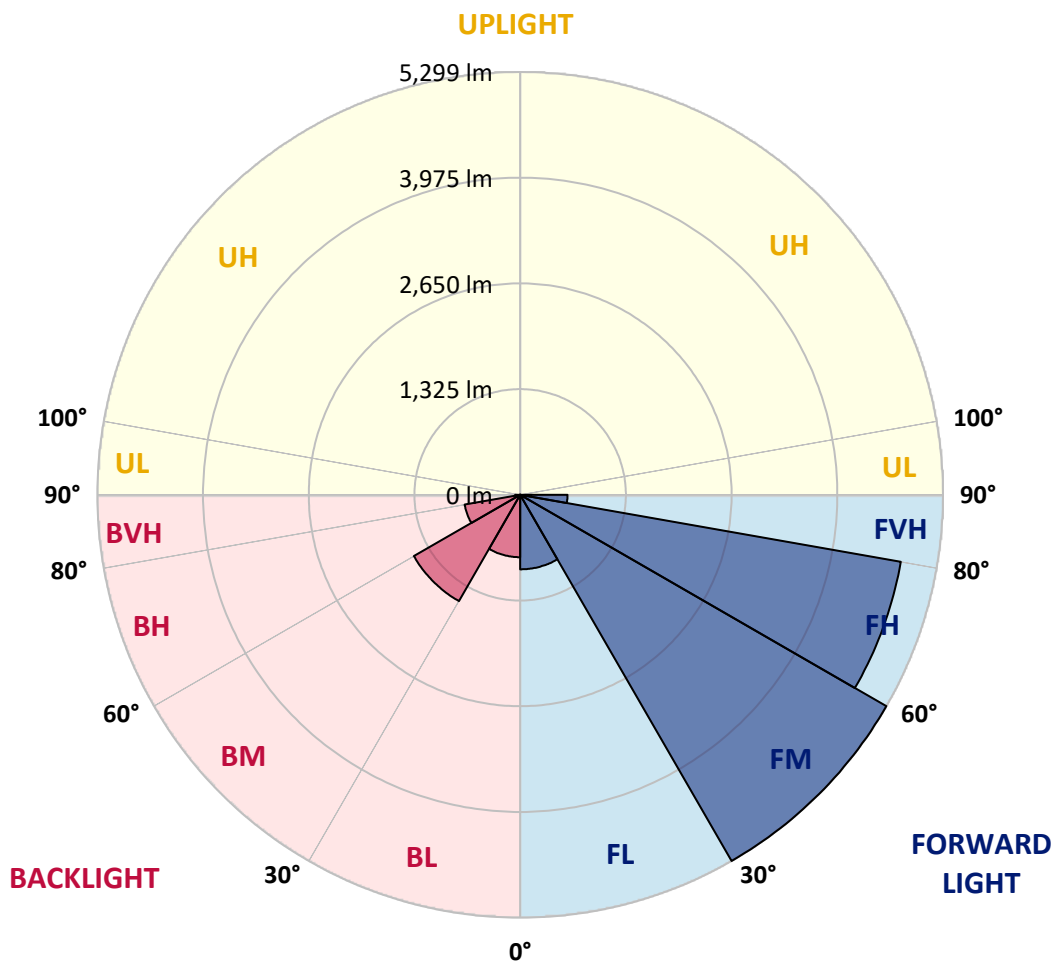
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	934.2	6.3			
FM	(30°-60°)	5299.3	35.9			
FH	(60°-80°)	4843.9	32.8			G2/5000
FVH	(80°-90°)	593.1	4.0			G4/750
BL	(0°-30°)	782.2	5.3	B2/1000		
BM	(30°-60°)	1538.3	10.4	B2/2500		
BH	(60°-80°)	706.1	4.8	B2/1000		G2/1000
BVH	(80°-90°)	63.1	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°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1810.6	1813.9	1813.9	1810.6	1813.9	1812.8	1812.8	1816.1	1817.2	1822.7	1819.4
5°	1801.9	1803.0	1804.0	1801.9	1803.0	1803.0	1805.1	1808.4	1809.5	1816.1	1812.8
7.5°	1792.0	1794.2	1789.8	1790.9	1794.2	1798.6	1798.6	1803.0	1810.6	1813.9	1812.8
10°	1797.5	1795.3	1792.0	1790.9	1793.1	1794.2	1796.4	1804.0	1810.6	1813.9	1819.4
12.5°	1840.2	1833.6	1830.4	1829.3	1830.4	1828.2	1835.8	1838.0	1840.2	1844.6	1842.4
15°	1921.3	1912.6	1907.1	1901.6	1913.7	1908.2	1908.2	1901.6	1890.6	1874.2	1853.4
17.5°	2034.2	2024.3	2020.0	2017.8	2018.9	2009.0	1989.3	1957.5	1919.1	1875.3	1834.7
20°	2196.4	2211.8	2205.2	2175.6	2164.6	2120.8	2058.3	1992.6	1925.7	1855.6	1788.7
22.5°	2477.0	2468.2	2438.6	2365.2	2299.5	2200.8	2089.0	1982.7	1884.1	1782.1	1694.4
25°	2802.5	2729.1	2645.8	2501.1	2349.9	2187.7	2026.5	1900.5	1769.0	1657.2	1552.0
27.5°	3201.5	3042.6	2829.9	2594.3	2368.5	2152.6	1961.9	1795.3	1645.1	1525.7	1408.4
30°	3593.9	3328.6	3032.7	2720.3	2415.6	2124.1	1872.0	1679.1	1505.9	1352.5	1234.1
32.5°	3865.7	3544.5	3176.3	2790.5	2420.0	2078.1	1773.4	1543.2	1348.1	1193.6	1051.1
35°	4089.3	3688.1	3226.7	2779.5	2349.9	1970.6	1632.0	1376.6	1169.5	1009.4	884.5
37.5°	4242.7	3761.5	3223.4	2715.9	2224.9	1799.7	1469.8	1210.0	1017.1	868.0	753.0
40°	4350.1	3784.6	3180.7	2607.4	2081.3	1634.2	1296.6	1059.9	891.1	774.9	691.6
42.5°	4401.6	3769.2	3117.1	2504.4	1938.9	1500.5	1166.2	959.0	822.0	734.3	673.0
45°	4423.5	3731.9	3045.8	2403.6	1822.7	1385.4	1099.3	928.3	820.9	745.3	678.4
47.5°	4418.1	3691.4	2982.3	2320.3	1753.6	1354.7	1112.5	970.0	861.5	767.2	681.7
50°	4402.7	3654.1	2941.7	2289.6	1752.5	1400.7	1185.9	1040.1	908.6	786.9	678.4
52.5°	4401.6	3650.8	2963.6	2325.8	1816.1	1504.8	1296.6	1121.2	954.6	808.9	679.5
55°	4427.9	3710.0	3056.8	2423.3	1969.5	1650.6	1421.5	1207.8	1006.1	824.2	676.2
57.5°	4534.2	3858.0	3233.3	2641.4	2166.8	1828.2	1542.1	1272.5	1025.9	819.8	660.9
60°	4767.7	4117.7	3505.1	2949.4	2420.0	1990.4	1613.3	1294.4	1017.1	793.5	628.0
62.5°	5131.6	4493.7	3877.7	3251.9	2644.7	2087.9	1629.8	1276.9	982.0	749.7	587.5
63°	5224.7	4580.3	3953.3	3314.4	2683.1	2097.8	1628.7	1270.3	972.2	738.7	577.6
65°	5613.8	4951.8	4256.9	3520.4	2786.1	2117.5	1603.5	1228.6	928.3	687.2	532.7
67.5°	6199.1	5361.7	4558.3	3712.2	2843.1	2082.4	1524.6	1125.6	815.4	597.3	465.8
70°	6589.3	5633.5	4738.1	3774.7	2776.2	1922.4	1343.7	943.7	666.4	492.1	397.9
72.5°	6599.1	5390.2	4494.8	3450.3	2397.0	1585.9	1052.2	713.5	518.4	400.0	343.1
75°	5894.4	4555.1	3673.9	2833.2	1844.6	1121.2	739.8	520.6	397.9	329.9	297.0
77.5°	4381.9	3323.1	2651.3	1906.0	1198.0	726.7	515.1	385.8	315.7	272.9	248.8
80°	2719.2	2077.0	1609.0	1139.9	717.9	483.3	377.0	306.9	265.2	228.0	208.2
82.5°	1639.6	1162.9	908.6	688.3	459.2	348.5	290.4	258.7	224.7	191.8	176.5
85°	1201.2	831.9	609.4	425.3	283.9	230.2	203.9	197.3	174.3	148.0	139.2
87.5°	378.1	396.8	412.1	251.0	137.0	104.1	88.8	104.1	99.7	70.1	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1824.9	1829.3	1826.0	1826.0	1823.8	1822.7	1830.4	1828.2	1830.4	1829.3	1831.5
5°	1818.3	1821.6	1819.4	1821.6	1819.4	1819.4	1829.3	1829.3	1833.6	1835.8	1841.3
7.5°	1820.5	1821.6	1820.5	1823.8	1821.6	1819.4	1824.9	1828.2	1835.8	1842.4	1847.9
10°	1828.2	1831.5	1830.4	1830.4	1823.8	1819.4	1822.7	1824.9	1832.5	1835.8	1842.4
12.5°	1846.8	1842.4	1833.6	1828.2	1812.8	1804.0	1799.7	1797.5	1803.0	1807.3	1810.6
15°	1842.4	1818.3	1798.6	1782.1	1759.1	1744.9	1733.9	1732.8	1733.9	1735.0	1738.3
17.5°	1797.5	1764.6	1725.1	1704.3	1678.0	1662.7	1655.0	1649.5	1648.4	1650.6	1656.1
20°	1732.8	1684.6	1640.7	1604.6	1576.1	1552.0	1557.4	1545.4	1550.9	1554.2	1564.0
22.5°	1634.2	1567.3	1516.9	1473.1	1439.1	1413.9	1413.9	1402.9	1405.1	1415.0	1428.1
25°	1474.1	1411.7	1339.3	1308.6	1270.3	1252.8	1249.5	1247.3	1256.0	1268.1	1275.8
27.5°	1329.5	1244.0	1172.7	1132.2	1091.6	1096.0	1074.1	1087.3	1097.1	1107.0	1115.7
30°	1134.4	1064.2	999.6	959.0	910.8	911.9	915.2	917.4	926.1	939.3	956.8
32.5°	947.0	871.3	811.1	767.2	738.7	729.9	717.9	737.6	748.6	761.7	779.3
35°	792.4	713.5	663.1	624.7	608.3	596.2	592.9	590.8	600.6	607.2	621.4
37.5°	681.7	628.0	590.8	563.4	548.0	534.9	531.6	529.4	528.3	526.1	534.9
40°	636.8	594.0	562.3	537.0	522.8	515.1	511.8	507.5	503.1	497.6	496.5
42.5°	623.6	577.6	540.3	515.1	504.2	503.1	503.1	500.9	496.5	488.8	483.3
45°	618.2	562.3	519.5	499.8	492.1	493.2	493.2	493.2	489.9	482.2	473.5
47.5°	608.3	543.6	499.8	483.3	480.1	482.2	484.4	484.4	482.2	475.7	465.8
50°	589.7	515.1	469.1	453.8	452.7	453.8	453.8	455.9	453.8	448.3	439.5
52.5°	575.4	493.2	446.1	434.0	434.0	432.9	431.8	431.8	430.7	426.4	419.8
55°	562.3	479.0	436.2	426.4	428.5	428.5	426.4	425.3	420.9	415.4	408.8
57.5°	543.6	463.6	426.4	419.8	422.0	420.9	419.8	418.7	414.3	407.7	399.0
60°	510.7	436.2	406.6	402.2	405.5	406.6	411.0	412.1	409.9	402.2	390.2
62.5°	474.6	402.2	380.3	377.0	380.3	383.6	386.9	384.7	384.7	377.0	366.1
63°	462.5	396.8	372.6	372.6	375.9	379.2	381.4	379.2	380.3	371.6	360.6
65°	435.1	377.0	358.4	359.5	362.8	365.0	366.1	366.1	365.0	358.4	348.5
67.5°	389.1	348.5	337.6	343.1	347.4	348.5	348.5	350.7	348.5	344.2	335.4
70°	347.4	321.1	313.5	320.0	322.2	323.3	323.3	323.3	321.1	316.7	309.1
72.5°	315.7	302.5	301.4	300.3	301.4	298.1	298.1	295.9	290.4	287.2	280.6
75°	280.6	274.0	275.1	274.0	271.8	270.7	265.2	263.0	256.5	252.1	243.3
77.5°	241.1	242.2	241.1	242.2	244.4	245.5	237.8	232.4	226.9	222.5	218.1
80°	200.6	202.8	200.6	202.8	203.9	203.9	196.2	187.4	183.0	186.3	187.4
82.5°	178.7	178.7	169.9	172.1	169.9	166.6	161.1	157.8	154.5	152.3	157.8
85°	141.4	142.5	144.7	142.5	138.1	134.8	129.3	124.9	121.7	124.9	132.6
87.5°	84.4	91.0	87.7	87.7	86.6	86.6	82.2	80.0	76.7	89.9	96.4
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°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1830.4	1833.6	1834.7	1833.6	1834.7	1836.9	1828.2	1836.9	1838.0	1831.5	1833.6
5°	1845.7	1851.2	1858.9	1858.9	1864.3	1867.6	1863.2	1875.3	1877.5	1876.4	1881.9
7.5°	1856.7	1864.3	1874.2	1879.7	1889.5	1893.9	1897.2	1908.2	1910.4	1914.7	1919.1
10°	1855.6	1866.5	1875.3	1890.6	1902.7	1911.5	1918.0	1930.1	1934.5	1941.1	1944.3
12.5°	1823.8	1835.8	1852.3	1874.2	1896.1	1910.4	1927.9	1945.4	1952.0	1960.8	1966.3
15°	1752.5	1762.4	1785.4	1813.9	1843.5	1879.7	1904.9	1932.3	1944.3	1953.1	1960.8
17.5°	1659.4	1668.1	1689.0	1714.2	1753.6	1788.7	1827.1	1868.7	1889.5	1899.4	1902.7
20°	1572.8	1585.9	1591.4	1621.0	1634.2	1669.2	1702.1	1748.2	1774.5	1792.0	1803.0
22.5°	1436.9	1443.5	1472.0	1484.0	1493.9	1515.8	1556.3	1596.9	1632.0	1660.5	1669.2
25°	1286.7	1304.3	1319.6	1329.5	1352.5	1353.6	1386.5	1415.0	1458.8	1486.2	1508.1
27.5°	1121.2	1147.5	1156.3	1162.9	1180.4	1201.2	1213.3	1241.8	1267.0	1298.8	1338.2
30°	954.6	979.8	997.4	1007.2	1023.7	1043.4	1052.2	1070.8	1103.7	1138.8	1169.5
32.5°	799.0	825.3	834.1	865.9	870.2	888.9	895.4	925.0	943.7	973.3	1009.4
35°	646.7	674.1	700.4	717.9	737.6	736.5	754.1	781.5	797.9	828.6	852.7
37.5°	542.5	559.0	577.6	597.3	619.3	635.7	652.1	664.2	677.3	698.2	720.1
40°	496.5	500.9	508.6	520.6	536.0	548.0	560.1	569.9	579.8	596.2	610.5
42.5°	477.9	474.6	474.6	472.4	477.9	484.4	494.3	497.6	512.9	522.8	528.3
45°	464.7	457.0	451.6	445.0	442.8	445.0	450.5	458.1	468.0	471.3	471.3
47.5°	457.0	445.0	436.2	426.4	420.9	420.9	424.2	429.6	435.1	436.2	435.1
50°	430.7	418.7	407.7	399.0	394.6	394.6	395.7	403.3	404.4	402.2	403.3
52.5°	411.0	399.0	388.0	380.3	374.8	375.9	379.2	382.5	385.8	383.6	381.4
55°	399.0	384.7	374.8	366.1	359.5	361.7	365.0	369.4	374.8	371.6	368.3
57.5°	388.0	375.9	363.9	355.1	347.4	349.6	352.9	359.5	366.1	359.5	355.1
60°	378.1	366.1	354.0	345.2	336.5	338.7	343.1	349.6	355.1	346.3	340.9
62.5°	354.0	343.1	334.3	329.9	324.4	327.7	331.0	338.7	336.5	327.7	321.1
63°	349.6	338.7	331.0	326.6	322.2	326.6	327.7	335.4	332.1	323.3	317.8
65°	336.5	327.7	320.0	315.7	311.3	313.5	313.5	316.7	312.4	305.8	301.4
67.5°	324.4	314.6	306.9	298.1	293.7	291.5	290.4	289.3	286.1	282.8	281.7
70°	298.1	291.5	285.0	277.3	270.7	266.3	264.1	261.9	259.8	258.7	257.6
72.5°	269.6	264.1	257.6	253.2	247.7	244.4	238.9	237.8	235.6	233.5	232.4
75°	238.9	232.4	230.2	225.8	222.5	220.3	215.9	214.8	212.6	209.3	208.2
77.5°	211.5	209.3	206.1	205.0	199.5	196.2	194.0	192.9	190.7	188.5	186.3
80°	188.5	187.4	185.2	184.1	180.8	176.5	174.3	175.4	172.1	171.0	167.7
82.5°	169.9	171.0	171.0	167.7	164.4	158.9	156.7	160.0	157.8	153.4	149.1
85°	144.7	143.6	144.7	143.6	137.0	131.5	129.3	131.5	130.4	123.9	122.8
87.5°	103.0	101.9	99.7	106.3	97.5	78.9	81.1	92.1	88.8	85.5	83.3
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: P146069

CATALOG NUMBER: LDRL-SLR-E06-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1838.0	1834.7	1836.9	1838.0	1834.7	1842.4	1834.7	1835.8	1838.0	1831.5	1830.4
5°	1886.3	1886.3	1895.0	1896.1	1895.0	1904.9	1903.8	1904.9	1902.7	1901.6	1897.2
7.5°	1925.7	1930.1	1936.7	1946.5	1949.8	1957.5	1959.7	1960.8	1965.2	1969.5	1967.4
10°	1954.2	1966.3	1971.7	1981.6	1991.5	1996.9	2002.4	2011.2	2014.5	2017.8	2013.4
12.5°	1973.9	1988.2	1996.9	2009.0	2021.1	2029.8	2039.7	2050.7	2061.6	2064.9	2059.4
15°	1964.1	1980.5	1993.7	2006.8	2025.4	2041.9	2060.5	2080.2	2094.5	2100.0	2093.4
17.5°	1902.7	1919.1	1938.9	1958.6	1978.3	2009.0	2035.3	2068.2	2091.2	2107.6	2109.8
20°	1818.3	1828.2	1856.7	1876.4	1908.2	1944.3	1983.8	2022.2	2048.5	2078.1	2095.6
22.5°	1693.4	1713.1	1744.9	1778.8	1810.6	1857.8	1899.4	1949.8	1994.8	2035.3	2073.7
25°	1541.0	1568.4	1605.7	1652.8	1694.4	1744.9	1805.1	1861.0	1936.7	2000.2	2082.4
27.5°	1376.6	1427.0	1478.5	1527.9	1573.9	1630.9	1693.4	1755.8	1842.4	1944.3	2051.8
30°	1221.0	1262.6	1327.3	1384.3	1438.0	1508.1	1572.8	1641.8	1724.0	1844.6	1966.3
32.5°	1058.8	1092.7	1143.1	1213.3	1275.8	1358.0	1415.0	1497.2	1592.5	1719.7	1857.8
35°	891.1	938.2	978.7	1027.0	1074.1	1156.3	1241.8	1332.8	1442.4	1578.3	1729.5
37.5°	743.1	772.7	792.4	841.7	883.4	953.5	1053.3	1162.9	1283.4	1421.5	1583.7
40°	620.3	639.0	660.9	693.8	728.9	792.4	884.5	1007.2	1133.3	1271.4	1433.6
42.5°	536.0	548.0	550.2	575.4	608.3	670.8	744.2	857.1	996.3	1141.0	1303.2
45°	477.9	477.9	476.8	487.7	514.0	567.7	634.6	735.4	868.0	1019.3	1188.1
47.5°	437.3	440.6	439.5	443.9	461.4	500.9	561.2	646.7	767.2	915.2	1085.1
50°	406.6	411.0	412.1	413.2	419.8	452.7	504.2	573.2	680.6	822.0	993.0
52.5°	382.5	383.6	383.6	382.5	384.7	403.3	446.1	509.6	609.4	736.5	900.9
55°	369.4	370.5	370.5	370.5	370.5	382.5	413.2	464.7	544.7	664.2	813.2
57.5°	354.0	354.0	356.2	356.2	356.2	360.6	382.5	425.3	486.6	582.0	714.6
60°	340.9	344.2	348.5	349.6	348.5	348.5	359.5	388.0	428.5	497.6	609.4
62.5°	321.1	325.5	331.0	333.2	334.3	332.1	337.6	349.6	373.7	409.9	485.5
63°	317.8	322.2	326.6	328.8	329.9	327.7	332.1	342.0	361.7	391.3	459.2
65°	303.6	309.1	310.2	311.3	310.2	309.1	308.0	308.0	313.5	324.4	360.6
67.5°	283.9	287.2	287.2	289.3	283.9	281.7	279.5	277.3	274.0	275.1	288.3
70°	260.9	263.0	261.9	260.9	258.7	255.4	253.2	249.9	243.3	241.1	247.7
72.5°	234.5	236.7	236.7	236.7	232.4	230.2	228.0	225.8	223.6	225.8	228.0
75°	210.4	210.4	212.6	211.5	208.2	206.1	205.0	203.9	203.9	203.9	202.8
77.5°	187.4	186.3	186.3	183.0	180.8	179.7	181.9	183.0	181.9	179.7	178.7
80°	167.7	162.2	156.7	152.3	151.3	153.4	155.6	162.2	158.9	158.9	156.7
82.5°	142.5	130.4	122.8	123.9	120.6	121.7	123.9	131.5	129.3	130.4	134.8
85°	114.0	103.0	91.0	93.2	93.2	91.0	96.4	98.6	100.8	106.3	101.9
87.5°	80.0	70.1	58.1	50.4	52.6	54.8	57.0	54.8	48.2	50.4	49.3
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-E06-E-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
2.5°	1828.2	1829.3	1829.3	1821.6	1819.4	1821.6	1820.5	1820.5	1813.9	1815.0	1812.8
5°	1895.0	1897.2	1890.6	1885.2	1877.5	1876.4	1875.3	1870.9	1866.5	1857.8	1853.4
7.5°	1966.3	1956.4	1954.2	1944.3	1941.1	1932.3	1925.7	1919.1	1913.7	1909.3	1906.0
10°	2011.2	2003.5	2001.3	1983.8	1978.3	1967.4	1960.8	1953.1	1946.5	1940.0	1938.9
12.5°	2051.8	2038.6	2030.9	2006.8	1995.9	1983.8	1978.3	1971.7	1969.5	1968.5	1972.8
15°	2083.5	2064.9	2050.7	2028.7	2020.0	2013.4	2014.5	2011.2	2024.3	2032.0	2046.3
17.5°	2104.4	2096.7	2093.4	2077.0	2082.4	2082.4	2097.8	2105.5	2129.6	2149.3	2169.0
20°	2115.3	2129.6	2157.0	2162.4	2175.6	2189.8	2212.9	2226.0	2251.2	2279.7	2307.1
22.5°	2125.2	2185.5	2241.4	2283.0	2312.6	2345.5	2361.9	2389.3	2406.9	2427.7	2469.3
25°	2180.0	2280.8	2379.5	2433.2	2503.3	2550.4	2587.7	2615.1	2645.8	2663.3	2710.5
27.5°	2164.6	2292.9	2424.4	2523.0	2632.6	2721.4	2800.3	2852.9	2892.4	2956.0	2995.4
30°	2094.5	2243.6	2402.5	2542.8	2696.2	2840.9	2977.9	3100.6	3205.9	3291.3	3349.4
32.5°	1994.8	2165.7	2352.1	2525.2	2721.4	2914.3	3111.6	3299.0	3477.7	3619.1	3707.8
35°	1883.0	2067.1	2273.1	2478.1	2713.7	2965.8	3232.2	3484.2	3742.9	3968.7	4146.2
37.5°	1747.1	1946.5	2172.3	2410.1	2680.9	2983.4	3318.7	3661.8	3991.7	4333.7	4583.6
40°	1604.6	1799.7	2034.2	2306.0	2618.4	2974.6	3385.6	3830.6	4308.5	4749.1	5129.4
42.5°	1482.9	1673.6	1919.1	2187.7	2524.1	2941.7	3430.5	3981.8	4570.4	5141.4	5646.7
45°	1363.4	1567.3	1815.0	2098.9	2466.0	2928.6	3488.6	4113.4	4785.2	5462.6	6107.0
47.5°	1269.2	1470.9	1720.8	2025.4	2418.9	2920.9	3543.4	4236.1	4960.6	5701.5	6465.4
50°	1179.3	1372.2	1615.5	1936.7	2369.6	2908.8	3576.3	4333.7	5097.6	5888.9	6719.7
52.5°	1087.3	1287.8	1524.6	1835.8	2304.9	2884.7	3586.2	4410.4	5239.0	6068.7	6957.5
55°	994.1	1194.7	1431.4	1753.6	2217.2	2837.6	3578.5	4466.3	5386.9	6258.3	7174.5
57.5°	880.1	1077.4	1325.1	1649.5	2104.4	2743.3	3541.2	4490.4	5479.0	6435.8	7392.7
60°	751.9	938.2	1172.7	1503.7	1966.3	2607.4	3457.9	4456.4	5520.7	6553.1	7623.9
62.5°	590.8	753.0	968.9	1297.7	1765.7	2411.2	3276.0	4306.3	5419.8	6523.5	7723.7
63°	554.6	711.3	933.8	1242.9	1706.5	2343.3	3222.3	4254.8	5374.9	6496.1	7711.6
65°	423.1	539.2	723.4	999.6	1442.4	2029.8	2939.5	3963.2	5092.1	6223.2	7522.0
67.5°	312.4	372.6	485.5	670.8	1014.9	1579.4	2409.1	3422.9	4491.5	5554.6	6876.4
70°	258.7	281.7	334.3	429.6	628.0	1047.8	1702.1	2605.2	3610.3	4525.5	5719.0
72.5°	231.3	247.7	271.8	314.6	396.8	614.9	1107.0	1691.2	2514.3	3305.6	4313.9
75°	207.1	218.1	237.8	263.0	300.3	384.7	585.3	1002.9	1536.6	2227.1	2959.3
77.5°	181.9	192.9	212.6	232.4	256.5	292.6	362.8	571.0	919.6	1299.9	1816.1
80°	157.8	163.3	179.7	208.2	225.8	255.4	278.4	357.3	500.9	680.6	967.8
82.5°	130.4	131.5	142.5	164.4	186.3	197.3	203.9	224.7	288.3	359.5	474.6
85°	93.2	88.8	95.4	104.1	121.7	111.8	119.5	126.0	153.4	185.2	339.8
87.5°	41.6	32.9	38.4	42.7	38.4	26.3	38.4	31.8	39.5	77.8	87.7
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	0°
2.5°	1815.0	1808.4	1808.4	1807.3	1808.4	1806.2	1801.9	1801.9	1805.1	1804.0	1804.0	2.5°
5°	1853.4	1844.6	1842.4	1841.3	1841.3	1835.8	1829.3	1826.0	1824.9	1820.5	1817.2	5°
7.5°	1903.8	1898.3	1901.6	1895.0	1892.8	1891.7	1883.0	1876.4	1866.5	1862.1	1845.7	7.5°
10°	1945.4	1942.1	1950.9	1949.8	1950.9	1950.9	1938.9	1932.3	1918.0	1910.4	1889.5	10°
12.5°	1981.6	1983.8	2000.2	2000.2	2003.5	2007.9	2001.3	1987.1	1981.6	1973.9	1952.0	12.5°
15°	2073.7	2082.4	2094.5	2114.2	2119.7	2120.8	2126.3	2114.2	2100.0	2080.2	2053.9	15°
17.5°	2198.6	2216.2	2256.7	2285.2	2290.7	2296.2	2292.9	2290.7	2264.4	2247.9	2220.5	17.5°
20°	2355.3	2398.1	2455.1	2494.5	2512.1	2514.3	2536.2	2520.8	2496.7	2463.9	2424.4	20°
22.5°	2530.7	2602.0	2674.3	2732.4	2766.4	2781.7	2804.7	2782.8	2751.0	2731.3	2678.7	22.5°
25°	2770.7	2848.6	2931.9	2977.9	3064.5	3089.7	3102.8	3096.3	3063.4	3077.6	3029.4	25°
27.5°	3099.5	3166.4	3283.7	3341.8	3422.9	3470.0	3460.1	3514.9	3524.8	3558.8	3564.3	27.5°
30°	3457.9	3568.6	3726.5	3843.7	3967.6	4047.6	4111.2	4159.4	4215.3	4309.6	4366.5	30°
32.5°	3844.8	4004.9	4206.5	4455.3	4718.4	4933.2	5175.4	5217.1	5342.0	5305.8	5281.7	32.5°
35°	4275.6	4477.2	4735.9	5062.5	5445.0	5800.1	6033.6	6150.9	6200.2	6227.6	6061.0	35°
37.5°	4852.1	5125.0	5413.2	5769.5	6062.1	6394.2	6662.7	6954.2	7088.0	7024.4	6705.5	37.5°
40°	5491.1	5746.4	6136.6	6428.2	6773.4	7320.3	7684.2	8034.9	8144.5	7933.0	7433.2	40°
42.5°	6132.2	6483.0	6906.0	7320.3	7717.1	8212.5	8694.7	9041.1	9161.6	8799.9	8207.0	42.5°
45°	6703.3	7152.6	7650.2	8075.5	8630.1	9277.8	9868.6	10147.0	10125.0	9544.1	8876.7	45°
47.5°	7200.9	7783.9	8345.1	8918.3	9477.3	10208.3	10793.6	11113.6	10886.8	10276.3	9520.0	47.5°
50°	7611.9	8316.6	8993.9	9652.7	10338.8	11115.8	11680.3	11976.2	11631.0	10858.3	10013.2	50°
52.5°	7924.2	8797.8	9578.1	10314.6	11134.5	11974.0	12476.0	12654.7	12116.5	11308.7	10382.6	52.5°
55°	8219.1	9206.6	10070.2	10906.5	11926.9	12679.9	13150.1	13117.2	12422.3	11504.9	10613.9	55°
57.5°	8441.5	9555.1	10474.7	11427.1	12526.4	13330.9	13602.7	13385.7	12549.4	11563.0	10680.7	57.5°
60°	8722.1	9826.9	10834.2	11897.3	13096.3	13777.0	13813.1	13424.1	12513.3	11453.4	10586.5	60°
62.5°	8901.9	9996.8	11063.2	12219.5	13530.4	14028.0	13769.3	13258.6	12305.0	11182.7	10370.5	62.5°
63°	8919.4	10013.2	11081.9	12251.3	13591.7	14038.9	13728.8	13184.0	12243.6	11108.2	10313.6	63°
65°	8840.5	9966.1	10996.4	12194.3	13607.1	13909.6	13431.7	12878.2	11905.0	10727.8	9978.2	65°
67.5°	8289.2	9459.8	10442.9	11566.3	13015.2	13182.9	12704.0	12102.3	11188.2	9908.0	9244.9	67.5°
70°	7301.7	8414.1	9111.2	10154.6	11429.3	11629.9	11201.3	10735.5	9923.4	8853.7	8303.5	70°
72.5°	5882.3	6975.1	7393.8	8192.8	9205.5	9161.6	8860.2	8802.1	8374.7	7477.1	7146.1	72.5°
75°	4397.2	5437.4	5613.8	5939.3	6504.9	6490.6	6560.8	6810.7	7024.4	6493.9	6069.8	75°
77.5°	2900.1	3934.7	4044.3	4423.5	4580.3	5009.9	5514.1	6142.1	6453.4	6236.4	5715.7	77.5°
80°	1604.6	2691.8	2669.9	2817.9	3095.2	3719.9	4483.8	5416.5	6039.1	5883.4	5313.5	80°
82.5°	834.1	1701.0	1675.8	1702.1	1959.7	2484.7	3065.6	3828.4	4471.8	4486.0	4294.2	82.5°
85°	620.3	1221.0	1293.3	1352.5	1523.5	1706.5	1812.8	2057.2	2410.1	2739.0	2856.2	85°
87.5°	228.0	733.2	913.0	980.9	985.3	962.3	783.7	862.6	784.8	928.3	1296.6	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°
1812.8	1812.8	1812.8	1812.8	1812.8	1812.8	1812.8
1806.2	1806.2	1805.1	1807.3	1808.4	1811.7	1810.6
1813.9	1810.6	1807.3	1805.1	1803.0	1804.0	1801.9
1833.6	1822.7	1813.9	1806.2	1799.7	1798.6	1792.0
1877.5	1857.8	1841.3	1829.3	1816.1	1809.5	1797.5
1933.4	1911.5	1890.6	1873.1	1857.8	1849.0	1840.2
2030.9	1999.1	1973.9	1955.3	1940.0	1930.1	1921.3
2175.6	2136.1	2097.8	2061.6	2057.2	2034.2	2034.2
2375.1	2321.4	2272.1	2241.4	2227.1	2196.4	2196.4
2651.3	2598.7	2525.2	2488.0	2491.3	2464.9	2477.0
3008.6	2964.7	2889.1	2873.8	2873.8	2845.3	2802.5
3544.5	3529.2	3445.9	3466.7	3422.9	3316.6	3201.5
4340.2	4340.2	4179.1	4062.9	3962.1	3796.6	3593.9
5137.0	5032.9	4786.3	4589.0	4379.7	4126.5	3865.7
5810.0	5532.7	5282.8	5041.7	4727.1	4455.3	4089.3
6377.7	6114.7	5828.6	5461.5	5092.1	4712.9	4242.7
7081.4	6761.3	6331.7	5870.3	5416.5	4894.8	4350.1
7724.8	7323.6	6781.1	6196.9	5619.3	5037.3	4401.6
8329.8	7812.4	7142.8	6441.3	5783.7	5125.0	4423.5
8899.7	8205.9	7426.6	6615.6	5896.6	5172.1	4418.1
9275.6	8494.2	7605.3	6720.8	5964.5	5188.6	4402.7
9511.3	8670.6	7710.5	6778.9	5998.5	5191.8	4401.6
9643.9	8770.4	7767.5	6819.4	6035.8	5211.6	4427.9
9746.9	8849.3	7831.1	6888.5	6124.6	5303.6	4534.2
9844.5	9056.4	7996.6	7015.6	6279.1	5475.7	4767.7
9885.0	9449.9	8333.0	7250.2	6495.0	5751.9	5131.6
9881.7	9524.4	8430.6	7314.8	6552.0	5825.3	5224.7
9762.3	9761.2	8874.5	7623.9	6817.2	6165.1	5613.8
9408.2	9879.5	9365.5	8031.6	7229.4	6725.2	6199.1
8848.2	9735.9	9432.4	8139.0	7522.0	7239.2	6589.3
7883.7	9049.8	8806.5	7680.9	7422.3	7340.0	6599.1
6376.6	7275.4	7171.3	6561.9	6657.2	6826.0	5894.4
5137.0	5108.6	5093.2	4871.8	5277.3	5620.4	4381.9
4290.9	3534.7	3282.6	3197.1	3865.7	4128.7	2719.2
4011.4	3175.2	2547.2	2439.7	2896.8	3037.1	1639.6
3065.6	3083.1	2668.8	2287.4	2253.4	2062.7	1201.2
1500.5	1525.7	1612.2	1472.0	1262.6	1064.2	378.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)