

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: P146061

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146061  
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-E05-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
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

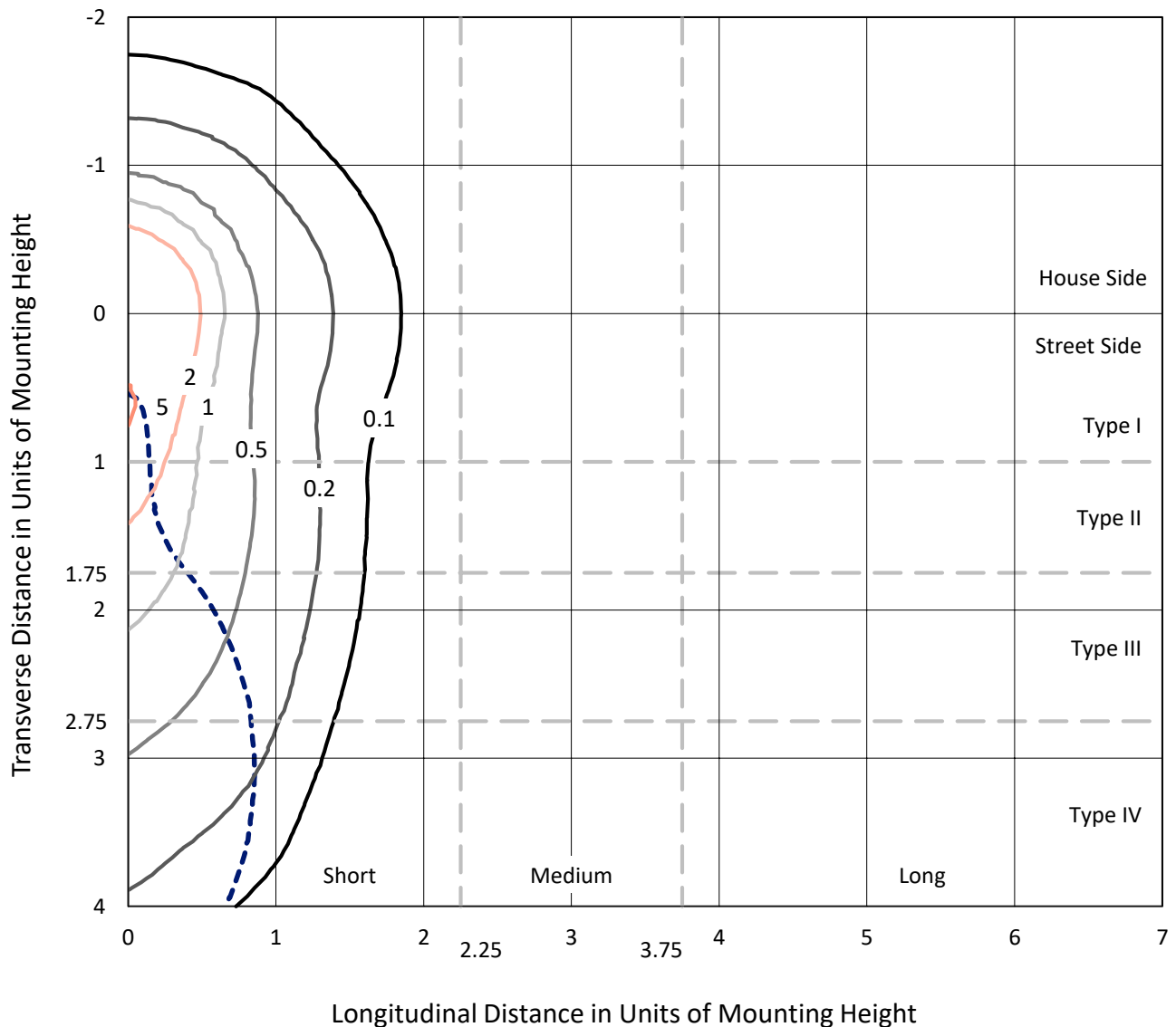
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P146061  
 CATALOG NUMBER: LDRL-SLR-E05-E-7050

### Iso-Footcandle Lines of Horizontal Illumination

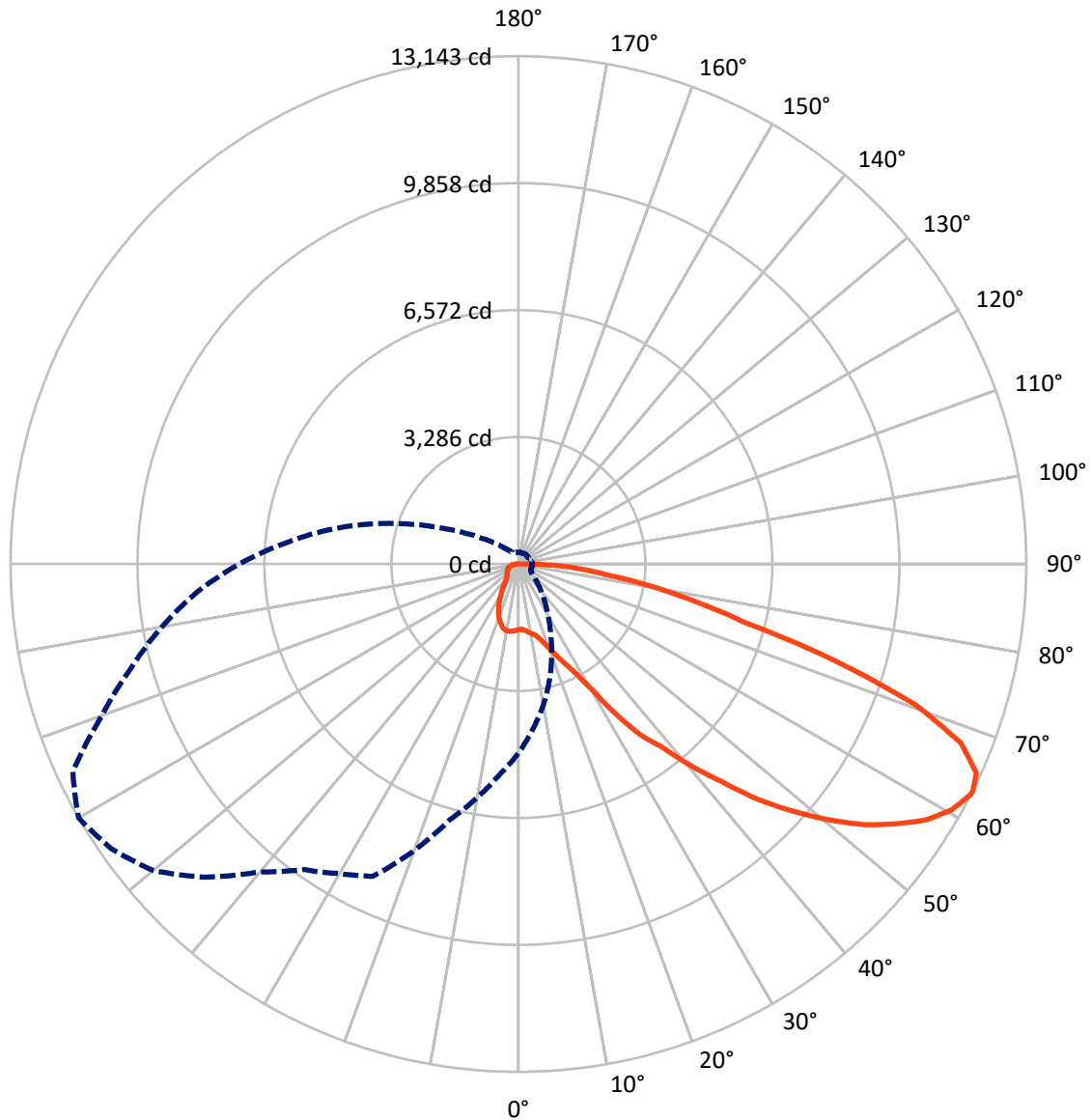
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P146061  
CATALOG NUMBER: LDRL-SLR-E05-E-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P146061

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2892.7	0.0	2892.7
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	10926.1	0.0	10926.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	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**



REPORT NUMBER: P146061

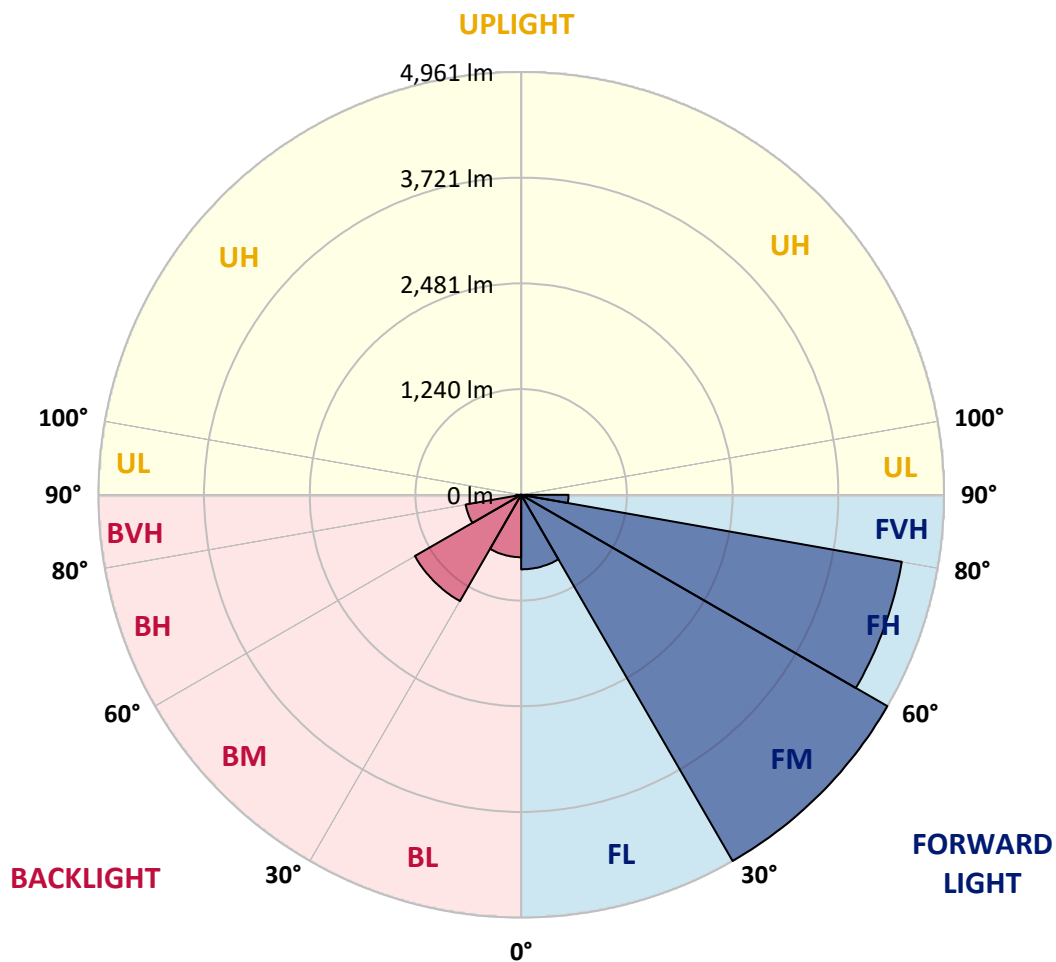
CATALOG NUMBER: LDRL-SLR-E05-E-7050

**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





REPORT NUMBER: P146061

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

**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	1698.2	1698.2	1695.1	1698.2	1697.2	1697.2	1700.3	1701.3	1706.4	1703.3
5°	1686.9	1687.9	1689.0	1686.9	1687.9	1687.9	1690.0	1693.1	1694.1	1700.3	1697.2
7.5°	1677.7	1679.7	1675.6	1676.7	1679.7	1683.8	1683.8	1687.9	1695.1	1698.2	1697.2
10°	1682.8	1680.8	1677.7	1676.7	1678.7	1679.7	1681.8	1689.0	1695.1	1698.2	1703.3
12.5°	1722.8	1716.7	1713.6	1712.6	1713.6	1711.5	1718.7	1720.8	1722.8	1726.9	1724.9
15°	1798.8	1790.6	1785.4	1780.3	1791.6	1786.4	1786.4	1780.3	1770.0	1754.6	1735.1
17.5°	1904.5	1895.2	1891.1	1889.1	1890.1	1880.9	1862.4	1832.6	1796.7	1755.7	1717.7
20°	2056.3	2070.7	2064.5	2036.8	2026.6	1985.5	1927.0	1865.5	1802.9	1737.2	1674.6
22.5°	2319.0	2310.8	2283.1	2214.3	2152.8	2060.4	1955.8	1856.2	1763.9	1668.4	1586.4
25°	2623.8	2555.0	2477.0	2341.6	2200.0	2048.1	1897.3	1779.3	1656.1	1551.5	1453.0
27.5°	2997.3	2848.5	2649.4	2428.8	2217.4	2015.3	1836.7	1680.8	1540.2	1428.3	1318.5
30°	3364.6	3116.3	2839.2	2546.8	2261.5	1988.6	1752.6	1572.0	1409.9	1266.2	1155.4
32.5°	3619.1	3318.4	2973.7	2612.5	2265.6	1945.5	1660.2	1444.8	1262.1	1117.4	984.0
35°	3828.4	3452.8	3020.9	2602.2	2200.0	1844.9	1527.9	1288.8	1094.9	945.0	828.1
37.5°	3972.1	3521.6	3017.8	2542.7	2083.0	1684.9	1376.0	1132.8	952.2	812.7	704.9
40°	4072.6	3543.1	2977.8	2441.1	1948.6	1529.9	1213.9	992.2	834.2	725.5	647.5
42.5°	4120.8	3528.8	2918.2	2344.7	1815.2	1404.7	1091.8	897.8	769.6	687.5	630.0
45°	4141.4	3493.9	2851.5	2250.2	1706.4	1297.0	1029.2	869.1	768.6	697.8	635.2
47.5°	4136.2	3455.9	2792.0	2172.3	1641.8	1268.3	1041.5	908.1	806.5	718.3	638.2
50°	4121.9	3421.0	2754.1	2143.5	1640.7	1311.4	1110.2	973.8	850.6	736.7	635.2
52.5°	4120.8	3418.0	2774.6	2177.4	1700.3	1408.8	1213.9	1049.7	893.7	757.3	636.2
55°	4145.5	3473.4	2861.8	2268.7	1843.9	1545.3	1330.9	1130.8	942.0	771.6	633.1
57.5°	4245.0	3611.9	3027.0	2472.9	2028.6	1711.5	1443.7	1191.3	960.4	767.5	618.7
60°	4463.6	3855.1	3281.5	2761.2	2265.6	1863.4	1510.4	1211.8	952.2	742.9	588.0
62.5°	4804.2	4207.0	3630.4	3044.5	2476.0	1954.7	1525.8	1195.4	919.4	701.9	550.0
63°	4891.4	4288.1	3701.2	3102.9	2511.9	1964.0	1524.8	1189.3	910.2	691.6	540.8
65°	5255.7	4635.9	3985.4	3295.9	2608.4	1982.4	1501.2	1150.3	869.1	643.4	498.7
67.5°	5803.7	5019.7	4267.6	3475.4	2661.7	1949.6	1427.3	1053.8	763.4	559.2	436.1
70°	6168.9	5274.2	4435.9	3533.9	2599.1	1799.8	1258.0	883.5	623.9	460.7	372.5
72.5°	6178.2	5046.4	4208.1	3230.2	2244.1	1484.8	985.1	668.0	485.3	374.5	321.2
75°	5518.4	4264.5	3439.5	2652.5	1726.9	1049.7	692.6	487.4	372.5	308.9	278.1
77.5°	4102.4	3111.2	2482.1	1784.4	1121.5	680.3	482.3	361.2	295.5	255.5	232.9
80°	2545.8	1944.5	1506.3	1067.1	672.1	452.5	353.0	287.3	248.3	213.4	195.0
82.5°	1535.1	1088.7	850.6	644.4	429.9	326.3	271.9	242.2	210.4	179.6	165.2
85°	1124.6	778.8	570.5	398.1	265.8	215.5	190.9	184.7	163.2	138.5	130.3
87.5°	354.0	371.5	385.8	235.0	128.3	97.5	83.1	97.5	93.4	65.7	71.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P146061  
 CATALOG NUMBER: LDRL-SLR-E05-E-7050

**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°	1708.5	1712.6	1709.5	1709.5	1707.4	1706.4	1713.6	1711.5	1713.6	1712.6	1714.6
5°	1702.3	1705.4	1703.3	1705.4	1703.3	1703.3	1712.6	1712.6	1716.7	1718.7	1723.9
7.5°	1704.4	1705.4	1704.4	1707.4	1705.4	1703.3	1708.5	1711.5	1718.7	1724.9	1730.0
10°	1711.5	1714.6	1713.6	1713.6	1707.4	1703.3	1706.4	1708.5	1715.6	1718.7	1724.9
12.5°	1729.0	1724.9	1716.7	1711.5	1697.2	1689.0	1684.9	1682.8	1687.9	1692.0	1695.1
15°	1724.9	1702.3	1683.8	1668.4	1646.9	1633.6	1623.3	1622.3	1623.3	1624.3	1627.4
17.5°	1682.8	1652.0	1615.1	1595.6	1571.0	1556.6	1549.4	1544.3	1543.3	1545.3	1550.4
20°	1622.3	1577.1	1536.1	1502.2	1475.5	1453.0	1458.1	1446.8	1451.9	1455.0	1464.3
22.5°	1529.9	1467.3	1420.1	1379.1	1347.3	1323.7	1323.7	1313.4	1315.5	1324.7	1337.0
25°	1380.1	1321.6	1253.9	1225.2	1189.3	1172.8	1169.8	1167.7	1175.9	1187.2	1194.4
27.5°	1244.7	1164.6	1097.9	1060.0	1022.0	1026.1	1005.6	1017.9	1027.1	1036.4	1044.6
30°	1062.0	996.3	935.8	897.8	852.7	853.7	856.8	858.9	867.1	879.4	895.8
32.5°	886.6	815.8	759.3	718.3	691.6	683.4	672.1	690.6	700.8	713.1	729.6
35°	741.9	668.0	620.8	584.9	569.5	558.2	555.1	553.1	562.3	568.5	581.8
37.5°	638.2	588.0	553.1	527.4	513.1	500.7	497.7	495.6	494.6	492.5	500.7
40°	596.2	556.1	526.4	502.8	489.5	482.3	479.2	475.1	471.0	465.9	464.8
42.5°	583.9	540.8	505.9	482.3	472.0	471.0	471.0	468.9	464.8	457.6	452.5
45°	578.7	526.4	486.4	467.9	460.7	461.7	461.7	461.7	458.7	451.5	443.3
47.5°	569.5	508.9	467.9	452.5	449.4	451.5	453.5	453.5	451.5	445.3	436.1
50°	552.0	482.3	439.2	424.8	423.8	424.8	424.8	426.9	424.8	419.7	411.5
52.5°	538.7	461.7	417.6	406.3	406.3	405.3	404.3	404.3	403.3	399.2	393.0
55°	526.4	448.4	408.4	399.2	401.2	401.2	399.2	398.1	394.0	388.9	382.7
57.5°	508.9	434.0	399.2	393.0	395.1	394.0	393.0	392.0	387.9	381.7	373.5
60°	478.2	408.4	380.7	376.6	379.7	380.7	384.8	385.8	383.8	376.6	365.3
62.5°	444.3	376.6	356.1	353.0	356.1	359.1	362.2	360.2	360.2	353.0	342.7
63°	433.0	371.5	348.9	348.9	352.0	355.0	357.1	355.0	356.1	347.8	337.6
65°	407.4	353.0	335.5	336.6	339.6	341.7	342.7	342.7	341.7	335.5	326.3
67.5°	364.3	326.3	316.0	321.2	325.3	326.3	326.3	328.4	326.3	322.2	314.0
70°	325.3	300.6	293.5	299.6	301.7	302.7	302.7	302.7	300.6	296.5	289.4
72.5°	295.5	283.2	282.2	281.2	282.2	279.1	279.1	277.0	271.9	268.8	262.7
75°	262.7	256.5	257.6	256.5	254.5	253.4	248.3	246.3	240.1	236.0	227.8
77.5°	225.7	226.8	225.7	226.8	228.8	229.8	222.7	217.5	212.4	208.3	204.2
80°	187.8	189.8	187.8	189.8	190.9	190.9	183.7	175.5	171.4	174.4	175.5
82.5°	167.3	167.3	159.0	161.1	159.0	156.0	150.8	147.8	144.7	142.6	147.8
85°	132.4	133.4	135.4	133.4	129.3	126.2	121.1	117.0	113.9	117.0	124.2
87.5°	79.0	85.2	82.1	82.1	81.1	81.1	77.0	74.9	71.8	84.1	90.3
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: P146061

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

**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°	1713.6	1716.7	1717.7	1716.7	1717.7	1719.8	1711.5	1719.8	1720.8	1714.6	1716.7
5°	1728.0	1733.1	1740.3	1740.3	1745.4	1748.5	1744.4	1755.7	1757.7	1756.7	1761.8
7.5°	1738.2	1745.4	1754.6	1759.8	1769.0	1773.1	1776.2	1786.4	1788.5	1792.6	1796.7
10°	1737.2	1747.5	1755.7	1770.0	1781.3	1789.5	1795.7	1807.0	1811.1	1817.2	1820.3
12.5°	1707.4	1718.7	1734.1	1754.6	1775.2	1788.5	1804.9	1821.3	1827.5	1835.7	1840.8
15°	1640.7	1650.0	1671.5	1698.2	1725.9	1759.8	1783.4	1809.0	1820.3	1828.5	1835.7
17.5°	1553.5	1561.7	1581.2	1604.8	1641.8	1674.6	1710.5	1749.5	1769.0	1778.2	1781.3
20°	1472.5	1484.8	1489.9	1517.6	1529.9	1562.8	1593.5	1636.6	1661.3	1677.7	1687.9
22.5°	1345.2	1351.4	1378.1	1389.3	1398.6	1419.1	1457.1	1495.0	1527.9	1554.5	1562.8
25°	1204.6	1221.1	1235.4	1244.7	1266.2	1267.2	1298.0	1324.7	1365.7	1391.4	1411.9
27.5°	1049.7	1074.3	1082.5	1088.7	1105.1	1124.6	1135.9	1162.6	1186.2	1215.9	1252.9
30°	893.7	917.3	933.8	943.0	958.4	976.9	985.1	1002.5	1033.3	1066.1	1094.9
32.5°	748.0	772.7	780.9	810.6	814.7	832.2	838.3	866.0	883.5	911.2	945.0
35°	605.4	631.1	655.7	672.1	690.6	689.5	706.0	731.6	747.0	775.7	798.3
37.5°	507.9	523.3	540.8	559.2	579.7	595.1	610.5	621.8	634.1	653.6	674.2
40°	464.8	468.9	476.1	487.4	501.8	513.1	524.3	533.6	542.8	558.2	571.5
42.5°	447.4	444.3	444.3	442.3	447.4	453.5	462.8	465.9	480.2	489.5	494.6
45°	435.1	427.9	422.8	416.6	414.5	416.6	421.7	428.9	438.1	441.2	441.2
47.5°	427.9	416.6	408.4	399.2	394.0	394.0	397.1	402.2	407.4	408.4	407.4
50°	403.3	392.0	381.7	373.5	369.4	369.4	370.4	377.6	378.6	376.6	377.6
52.5°	384.8	373.5	363.2	356.1	350.9	352.0	355.0	358.1	361.2	359.1	357.1
55°	373.5	360.2	350.9	342.7	336.6	338.6	341.7	345.8	350.9	347.8	344.8
57.5°	363.2	352.0	340.7	332.5	325.3	327.3	330.4	336.6	342.7	336.6	332.5
60°	354.0	342.7	331.4	323.2	315.0	317.1	321.2	327.3	332.5	324.2	319.1
62.5°	331.4	321.2	313.0	308.9	303.7	306.8	309.9	317.1	315.0	306.8	300.6
63°	327.3	317.1	309.9	305.8	301.7	305.8	306.8	314.0	310.9	302.7	297.6
65°	315.0	306.8	299.6	295.5	291.4	293.5	293.5	296.5	292.4	286.3	282.2
67.5°	303.7	294.5	287.3	279.1	275.0	272.9	271.9	270.9	267.8	264.7	263.7
70°	279.1	272.9	266.8	259.6	253.4	249.3	247.3	245.2	243.2	242.2	241.1
72.5°	252.4	247.3	241.1	237.0	231.9	228.8	223.7	222.7	220.6	218.6	217.5
75°	223.7	217.5	215.5	211.4	208.3	206.2	202.1	201.1	199.1	196.0	195.0
77.5°	198.0	196.0	192.9	191.9	186.8	183.7	181.6	180.6	178.5	176.5	174.4
80°	176.5	175.5	173.4	172.4	169.3	165.2	163.2	164.2	161.1	160.1	157.0
82.5°	159.0	160.1	160.1	157.0	153.9	148.8	146.7	149.8	147.8	143.7	139.6
85°	135.4	134.4	135.4	134.4	128.3	123.1	121.1	123.1	122.1	115.9	114.9
87.5°	96.5	95.4	93.4	99.5	91.3	73.9	75.9	86.2	83.1	80.0	78.0
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: P146061

CATALOG NUMBER: LDRL-SLR-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°	1720.8	1717.7	1719.8	1720.8	1717.7	1724.9	1717.7	1718.7	1720.8	1714.6	1713.6
5°	1765.9	1765.9	1774.1	1775.2	1774.1	1783.4	1782.3	1783.4	1781.3	1780.3	1776.2
7.5°	1802.9	1807.0	1813.1	1822.4	1825.4	1832.6	1834.7	1835.7	1839.8	1843.9	1841.9
10°	1829.5	1840.8	1846.0	1855.2	1864.4	1869.6	1874.7	1882.9	1886.0	1889.1	1885.0
12.5°	1848.0	1861.4	1869.6	1880.9	1892.1	1900.3	1909.6	1919.8	1930.1	1933.2	1928.1
15°	1838.8	1854.2	1866.5	1878.8	1896.2	1911.6	1929.1	1947.5	1960.9	1966.0	1959.9
17.5°	1781.3	1796.7	1815.2	1833.7	1852.1	1880.9	1905.5	1936.3	1957.8	1973.2	1975.3
20°	1702.3	1711.5	1738.2	1756.7	1786.4	1820.3	1857.3	1893.2	1917.8	1945.5	1961.9
22.5°	1585.3	1603.8	1633.6	1665.4	1695.1	1739.2	1778.2	1825.4	1867.5	1905.5	1941.4
25°	1442.7	1468.4	1503.2	1547.4	1586.4	1633.6	1690.0	1742.3	1813.1	1872.6	1949.6
27.5°	1288.8	1336.0	1384.2	1430.4	1473.5	1526.8	1585.3	1643.8	1724.9	1820.3	1920.9
30°	1143.1	1182.1	1242.6	1296.0	1346.3	1411.9	1472.5	1537.1	1614.1	1726.9	1840.8
32.5°	991.2	1023.0	1070.2	1135.9	1194.4	1271.3	1324.7	1401.7	1490.9	1610.0	1739.2
35°	834.2	878.3	916.3	961.5	1005.6	1082.5	1162.6	1247.7	1350.4	1477.6	1619.2
37.5°	695.7	723.4	741.9	788.0	827.0	892.7	986.1	1088.7	1201.6	1330.9	1482.7
40°	580.8	598.2	618.7	649.5	682.4	741.9	828.1	943.0	1061.0	1190.3	1342.1
42.5°	501.8	513.1	515.1	538.7	569.5	628.0	696.7	802.4	932.7	1068.2	1220.0
45°	447.4	447.4	446.4	456.6	481.2	531.5	594.1	688.5	812.7	954.3	1112.3
47.5°	409.4	412.5	411.5	415.6	432.0	468.9	525.4	605.4	718.3	856.8	1015.8
50°	380.7	384.8	385.8	386.8	393.0	423.8	472.0	536.7	637.2	769.6	929.7
52.5°	358.1	359.1	359.1	358.1	360.2	377.6	417.6	477.1	570.5	689.5	843.5
55°	345.8	346.8	346.8	346.8	346.8	358.1	386.8	435.1	510.0	621.8	761.4
57.5°	331.4	331.4	333.5	333.5	333.5	337.6	358.1	398.1	455.6	544.9	669.0
60°	319.1	322.2	326.3	327.3	326.3	326.3	336.6	363.2	401.2	465.9	570.5
62.5°	300.6	304.8	309.9	311.9	313.0	310.9	316.0	327.3	349.9	383.8	454.6
63°	297.6	301.7	305.8	307.8	308.9	306.8	310.9	320.1	338.6	366.3	429.9
65°	284.2	289.4	290.4	291.4	290.4	289.4	288.3	288.3	293.5	303.7	337.6
67.5°	265.8	268.8	268.8	270.9	265.8	263.7	261.7	259.6	256.5	257.6	269.9
70°	244.2	246.3	245.2	244.2	242.2	239.1	237.0	234.0	227.8	225.7	231.9
72.5°	219.6	221.6	221.6	221.6	217.5	215.5	213.4	211.4	209.3	211.4	213.4
75°	197.0	197.0	199.1	198.0	195.0	192.9	191.9	190.9	190.9	190.9	189.8
77.5°	175.5	174.4	174.4	171.4	169.3	168.3	170.3	171.4	170.3	168.3	167.3
80°	157.0	151.9	146.7	142.6	141.6	143.7	145.7	151.9	148.8	148.8	146.7
82.5°	133.4	122.1	114.9	115.9	112.9	113.9	115.9	123.1	121.1	122.1	126.2
85°	106.7	96.5	85.2	87.2	87.2	85.2	90.3	92.3	94.4	99.5	95.4
87.5°	74.9	65.7	54.4	47.2	49.3	51.3	53.4	51.3	45.1	47.2	46.2
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: P146061  
 CATALOG NUMBER: LDRL-SLR-E05-E-7050

**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	1712.6	1712.6	1705.4	1703.3	1705.4	1704.4	1704.4	1698.2	1699.2	1697.2
5°	1774.1	1776.2	1770.0	1764.9	1757.7	1756.7	1755.7	1751.6	1747.5	1739.2	1735.1
7.5°	1840.8	1831.6	1829.5	1820.3	1817.2	1809.0	1802.9	1796.7	1791.6	1787.5	1784.4
10°	1882.9	1875.7	1873.7	1857.3	1852.1	1841.9	1835.7	1828.5	1822.4	1816.2	1815.2
12.5°	1920.9	1908.6	1901.4	1878.8	1868.5	1857.3	1852.1	1846.0	1843.9	1842.9	1847.0
15°	1950.6	1933.2	1919.8	1899.3	1891.1	1885.0	1886.0	1882.9	1895.2	1902.4	1915.7
17.5°	1970.1	1962.9	1959.9	1944.5	1949.6	1949.6	1964.0	1971.1	1993.7	2012.2	2030.7
20°	1980.4	1993.7	2019.4	2024.5	2036.8	2050.2	2071.7	2084.0	2107.6	2134.3	2160.0
22.5°	1989.6	2046.1	2098.4	2137.4	2165.1	2195.9	2211.3	2236.9	2253.3	2272.8	2311.8
25°	2040.9	2135.3	2227.7	2278.0	2343.6	2387.7	2422.6	2448.3	2477.0	2493.4	2537.6
27.5°	2026.6	2146.6	2269.7	2362.1	2464.7	2547.8	2621.7	2671.0	2707.9	2767.4	2804.3
30°	1960.9	2100.4	2249.2	2380.6	2524.2	2659.7	2787.9	2902.9	3001.4	3081.4	3135.8
32.5°	1867.5	2027.6	2202.0	2364.1	2547.8	2728.4	2913.1	3088.6	3255.8	3388.2	3471.3
35°	1762.8	1935.2	2128.1	2320.0	2540.6	2776.6	3026.0	3262.0	3504.2	3715.5	3881.8
37.5°	1635.6	1822.4	2033.7	2256.4	2509.9	2793.1	3107.0	3428.2	3737.1	4057.2	4291.2
40°	1502.2	1684.9	1904.5	2158.9	2451.4	2784.9	3169.6	3586.2	4033.6	4446.1	4802.2
42.5°	1388.3	1566.9	1796.7	2048.1	2363.1	2754.1	3211.7	3727.8	4278.9	4813.5	5286.5
45°	1276.5	1467.3	1699.2	1965.0	2308.7	2741.8	3266.1	3851.0	4480.0	5114.1	5717.5
47.5°	1188.2	1377.0	1611.0	1896.2	2264.6	2734.6	3317.4	3965.9	4644.2	5337.8	6053.0
50°	1104.1	1284.7	1512.5	1813.1	2218.4	2723.3	3348.2	4057.2	4772.4	5513.3	6291.1
52.5°	1017.9	1205.7	1427.3	1718.7	2157.9	2700.7	3357.4	4129.0	4904.8	5681.5	6513.7
55°	930.7	1118.5	1340.1	1641.8	2075.8	2656.6	3350.2	4181.4	5043.3	5859.1	6716.9
57.5°	824.0	1008.7	1240.6	1544.3	1970.1	2568.3	3315.3	4204.0	5129.5	6025.3	6921.1
60°	703.9	878.3	1097.9	1407.8	1840.8	2441.1	3237.4	4172.1	5168.5	6135.1	7137.6
62.5°	553.1	704.9	907.1	1214.9	1653.1	2257.4	3067.0	4031.6	5074.1	6107.4	7231.0
63°	519.2	665.9	874.2	1163.6	1597.6	2193.8	3016.8	3983.3	5032.0	6081.7	7219.7
65°	396.1	504.8	677.2	935.8	1350.4	1900.3	2752.0	3710.4	4767.3	5826.2	7042.2
67.5°	292.4	348.9	454.6	628.0	950.2	1478.6	2255.4	3204.5	4205.0	5200.3	6437.8
70°	242.2	263.7	313.0	402.2	588.0	981.0	1593.5	2439.1	3380.0	4236.8	5354.2
72.5°	216.5	231.9	254.5	294.5	371.5	575.6	1036.4	1583.3	2353.9	3094.7	4038.8
75°	193.9	204.2	222.7	246.3	281.2	360.2	547.9	938.9	1438.6	2085.0	2770.5
77.5°	170.3	180.6	199.1	217.5	240.1	274.0	339.6	534.6	860.9	1217.0	1700.3
80°	147.8	152.9	168.3	195.0	211.4	239.1	260.6	334.5	468.9	637.2	906.1
82.5°	122.1	123.1	133.4	153.9	174.4	184.7	190.9	210.4	269.9	336.6	444.3
85°	87.2	83.1	89.3	97.5	113.9	104.7	111.8	118.0	143.7	173.4	318.1
87.5°	39.0	30.8	35.9	40.0	35.9	24.6	35.9	29.8	36.9	72.9	82.1
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: P146061  
 CATALOG NUMBER: LDRL-SLR-E05-E-7050

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°	1699.2	1693.1	1693.1	1692.0	1693.1	1691.0	1686.9	1686.9	1690.0	1689.0	1689.0	2.5°
5°	1735.1	1726.9	1724.9	1723.9	1723.9	1718.7	1712.6	1709.5	1708.5	1704.4	1701.3	5°
7.5°	1782.3	1777.2	1780.3	1774.1	1772.1	1771.1	1762.8	1756.7	1747.5	1743.4	1728.0	7.5°
10°	1821.3	1818.3	1826.5	1825.4	1826.5	1826.5	1815.2	1809.0	1795.7	1788.5	1769.0	10°
12.5°	1855.2	1857.3	1872.6	1872.6	1875.7	1879.8	1873.7	1860.3	1855.2	1848.0	1827.5	12.5°
15°	1941.4	1949.6	1960.9	1979.4	1984.5	1985.5	1990.6	1979.4	1966.0	1947.5	1922.9	15°
17.5°	2058.4	2074.8	2112.8	2139.4	2144.6	2149.7	2146.6	2144.6	2119.9	2104.5	2078.9	17.5°
20°	2205.1	2245.1	2298.5	2335.4	2351.8	2353.9	2374.4	2360.0	2337.5	2306.7	2269.7	20°
22.5°	2369.3	2436.0	2503.7	2558.1	2589.9	2604.3	2625.8	2605.3	2575.5	2557.1	2507.8	22.5°
25°	2594.0	2666.8	2744.8	2787.9	2869.0	2892.6	2904.9	2898.7	2868.0	2881.3	2836.2	25°
27.5°	2901.8	2964.4	3074.2	3128.6	3204.5	3248.6	3239.4	3290.7	3300.0	3331.8	3336.9	27.5°
30°	3237.4	3341.0	3488.8	3598.6	3714.5	3789.4	3848.9	3894.1	3946.4	4034.6	4088.0	30°
32.5°	3599.6	3749.4	3938.2	4171.1	4417.4	4618.5	4845.3	4884.3	5001.2	4967.4	4944.8	32.5°
35°	4002.8	4191.6	4433.8	4739.6	5097.7	5430.2	5648.7	5758.5	5804.7	5830.3	5674.4	35°
37.5°	4542.6	4798.1	5067.9	5401.4	5675.4	5986.3	6237.7	6510.6	6635.8	6576.3	6277.7	37.5°
40°	5140.8	5379.9	5745.2	6018.1	6341.3	6853.4	7194.0	7522.4	7625.0	7427.0	6959.0	40°
42.5°	5741.1	6069.4	6465.5	6853.4	7224.8	7688.6	8140.1	8464.3	8577.2	8238.6	7683.5	42.5°
45°	6275.7	6696.4	7162.2	7560.3	8079.6	8686.0	9239.1	9499.7	9479.2	8935.3	8310.4	45°
47.5°	6741.5	7287.4	7812.8	8349.4	8872.7	9557.1	10105.1	10404.7	10192.3	9620.8	8912.8	47.5°
50°	7126.3	7786.1	8420.2	9036.9	9679.3	10406.8	10935.2	11212.3	10889.0	10165.6	9374.5	50°
52.5°	7418.7	8236.5	8967.1	9656.7	10424.2	11210.2	11680.2	11847.4	11343.6	10587.4	9720.3	52.5°
55°	7694.8	8619.3	9427.9	10210.8	11166.1	11871.0	12311.2	12280.4	11629.9	10771.0	9936.8	55°
57.5°	7903.1	8945.6	9806.5	10698.2	11727.4	12480.5	12735.0	12531.8	11748.9	10825.4	9999.4	57.5°
60°	8165.7	9200.1	10143.1	11138.4	12260.9	12898.1	12932.0	12567.7	11715.0	10722.8	9911.2	60°
62.5°	8334.0	9359.1	10357.5	11440.0	12667.3	13133.1	12891.0	12412.8	11520.1	10469.4	9709.0	62.5°
63°	8350.4	9374.5	10375.0	11469.8	12724.7	13143.4	12853.0	12343.0	11462.6	10399.6	9655.7	63°
65°	8276.6	9330.4	10294.9	11416.4	12739.1	13022.3	12574.9	12056.7	11145.6	10043.5	9341.7	65°
67.5°	7760.4	8856.3	9776.7	10828.5	12185.0	12342.0	11893.6	11330.3	10474.5	9276.0	8655.2	67.5°
70°	6835.9	7877.4	8530.0	9506.9	10700.2	10888.0	10486.8	10050.7	9290.4	8288.9	7773.8	70°
72.5°	5507.1	6530.1	6922.1	7670.1	8618.3	8577.2	8295.0	8240.7	7840.5	7000.1	6690.2	72.5°
75°	4116.7	5090.5	5255.7	5560.5	6089.9	6076.6	6142.3	6376.2	6576.3	6079.7	5682.6	75°
77.5°	2715.1	3683.7	3786.3	4141.4	4288.1	4690.3	5162.3	5750.3	6041.7	5838.5	5351.1	77.5°
80°	1502.2	2520.1	2499.6	2638.1	2897.7	3482.6	4197.8	5071.0	5653.8	5508.1	4974.6	80°
82.5°	780.9	1592.5	1568.9	1593.5	1834.7	2326.2	2870.0	3584.2	4186.5	4199.8	4020.3	82.5°
85°	580.8	1143.1	1210.8	1266.2	1426.3	1597.6	1697.2	1926.0	2256.4	2564.2	2674.0	85°
87.5°	213.4	686.5	854.7	918.4	922.5	900.9	733.7	807.5	734.7	869.1	1213.9	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: P146061

NUMBER: LDRL-SLR-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
1691.0	1691.0	1690.0	1692.0	1693.1	1696.2	1695.1
1698.2	1695.1	1692.0	1690.0	1687.9	1689.0	1686.9
1716.7	1706.4	1698.2	1691.0	1684.9	1683.8	1677.7
1757.7	1739.2	1723.9	1712.6	1700.3	1694.1	1682.8
1810.0	1789.5	1770.0	1753.6	1739.2	1731.0	1722.8
1901.4	1871.6	1848.0	1830.6	1816.2	1807.0	1798.8
2036.8	1999.9	1964.0	1930.1	1926.0	1904.5	1904.5
2223.6	2173.3	2127.1	2098.4	2085.0	2056.3	2056.3
2482.1	2432.9	2364.1	2329.3	2332.3	2307.7	2319.0
2816.7	2775.6	2704.8	2690.4	2690.4	2663.8	2623.8
3318.4	3304.1	3226.1	3245.6	3204.5	3105.0	2997.3
4063.4	4063.4	3912.5	3803.8	3709.4	3554.4	3364.6
4809.4	4711.9	4481.0	4296.3	4100.3	3863.3	3619.1
5439.4	5179.8	4945.8	4720.1	4425.6	4171.1	3828.4
5970.9	5724.6	5456.8	5113.1	4767.3	4412.3	3972.1
6629.7	6330.0	5927.8	5495.8	5071.0	4582.6	4072.6
7232.0	6856.4	6348.5	5801.6	5260.8	4716.0	4120.8
7798.4	7314.1	6687.1	6030.4	5414.8	4798.1	4141.4
8332.0	7682.5	6952.9	6193.6	5520.4	4842.2	4136.2
8683.9	7952.3	7120.1	6292.1	5584.1	4857.6	4121.9
8904.5	8117.5	7218.7	6346.5	5615.9	4860.7	4120.8
9028.7	8210.9	7272.0	6384.4	5650.8	4879.1	4145.5
9125.2	8284.8	7331.5	6449.1	5733.9	4965.3	4245.0
9216.5	8478.7	7486.5	6568.1	5878.6	5126.4	4463.6
9254.4	8847.1	7801.5	6787.7	6080.7	5385.0	4804.2
9251.4	8916.9	7892.8	6848.2	6134.1	5453.8	4891.4
9139.5	9138.5	8308.4	7137.6	6382.4	5771.8	5255.7
8808.1	9249.3	8768.1	7519.3	6768.2	6296.2	5803.7
8283.7	9114.9	8830.7	7619.9	7042.2	6777.4	6168.9
7380.8	8472.6	8244.8	7190.9	6948.8	6871.8	6178.2
5969.9	6811.3	6713.8	6143.3	6232.6	6390.6	5518.4
4809.4	4782.7	4768.3	4561.0	4940.7	5261.9	4102.4
4017.2	3309.2	3073.2	2993.1	3619.1	3865.3	2545.8
3755.5	2972.6	2384.7	2284.1	2712.0	2843.3	1535.1
2870.0	2886.4	2498.6	2141.5	2109.7	1931.1	1124.6
1404.7	1428.3	1509.4	1378.1	1182.1	996.3	354.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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