

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: P145758

Luminaire Tested: **LDRL-SLL-E05-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145758
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-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11366.2 lumens
Efficiency: N/A
Efficacy: 89.3 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 - G3

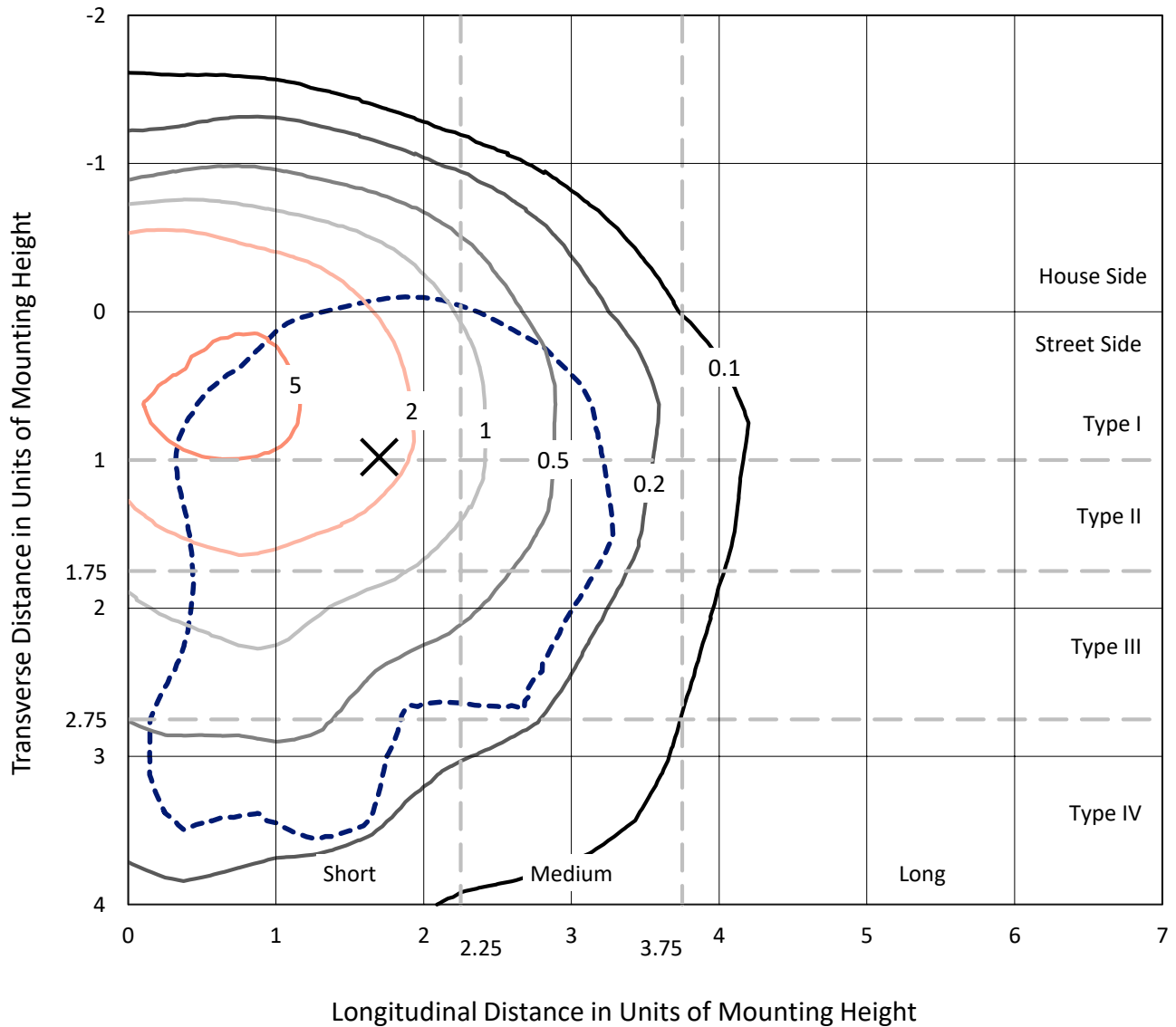
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

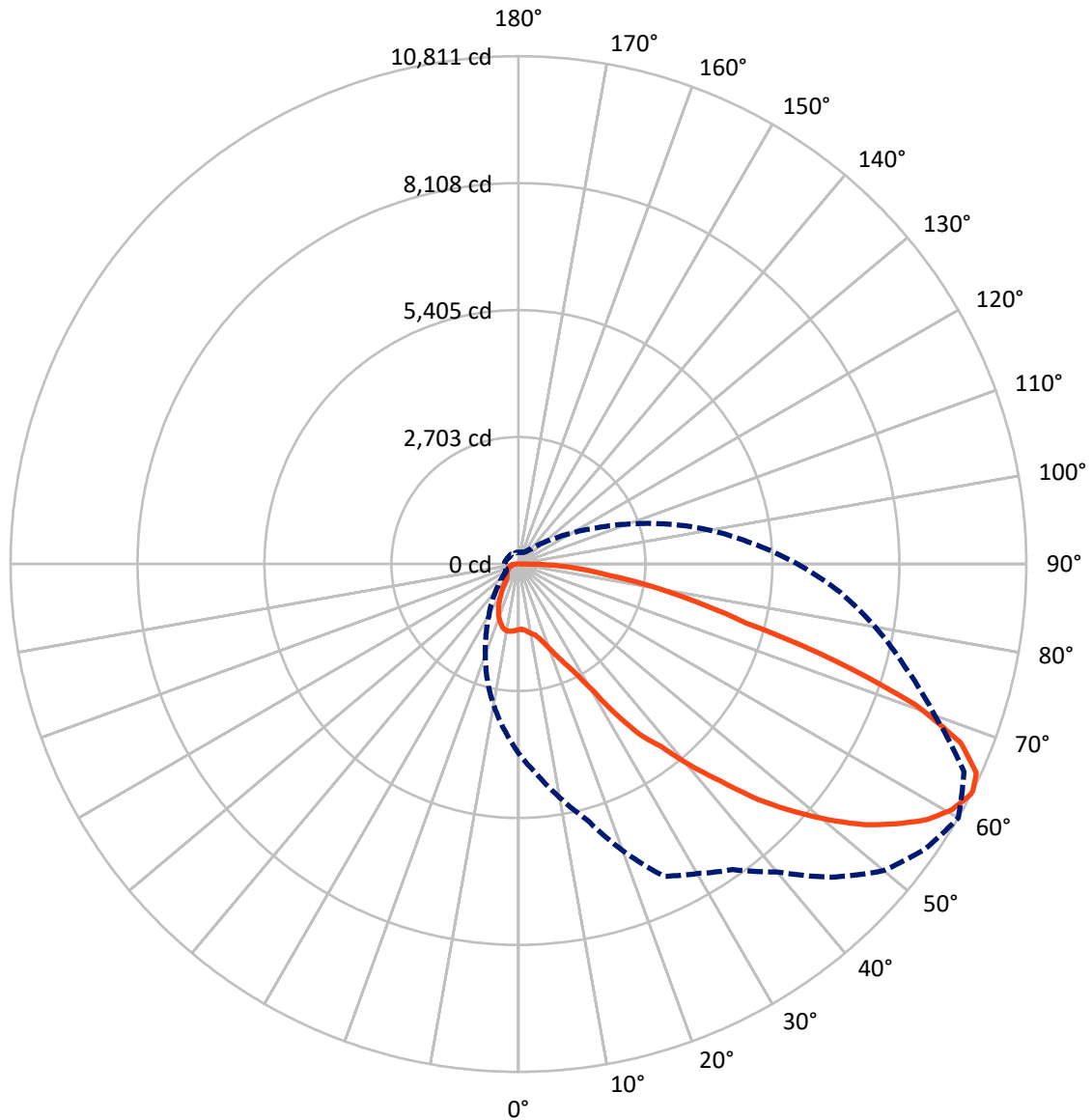
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.1 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	2379.3	0.0	2379.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8986.9	0.0	8986.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	11366.2	0.0	11366.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.1	1.2
10°-20°	427.9	3.8
20°-30°	756.7	6.7
30°-40°	1194.6	10.5
40°-50°	1756.7	15.5
50°-60°	2314.0	20.4
60°-70°	2579.2	22.7
70°-80°	1694.6	14.9
80°-90°	505.3	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°	11366.2	100.0
0°-180°	11366.2	100.0



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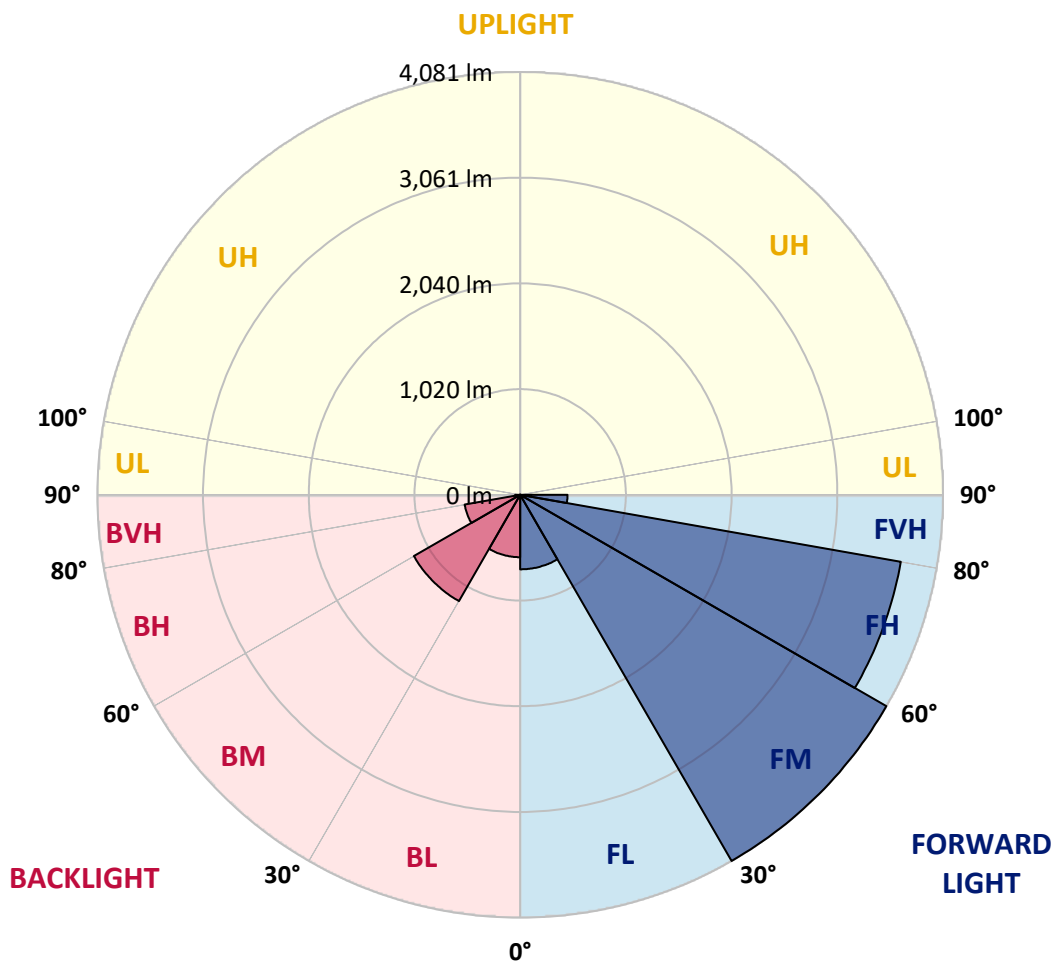
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	719.4	6.3			
FM	(30°-60°)	4080.8	35.9			
FH	(60°-80°)	3730.0	32.8			G2/5000
FVH	(80°-90°)	456.7	4.0			G3/500
BL	(0°-30°)	602.3	5.3	B2/1000		
BM	(30°-60°)	1184.6	10.4	B2/2500		
BH	(60°-80°)	543.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1394.3	1395.1	1392.6	1391.7	1390.1	1390.9	1390.9	1389.2	1389.2	1390.1	1387.5
5°	1387.5	1389.2	1388.4	1390.1	1391.7	1394.3	1396.8	1399.3	1401.9	1405.2	1406.1
7.5°	1379.9	1385.0	1385.8	1390.9	1396.8	1403.6	1412.0	1421.3	1433.9	1437.3	1444.9
10°	1384.1	1393.4	1398.5	1408.6	1417.9	1430.6	1445.8	1455.0	1471.1	1477.0	1488.0
12.5°	1417.1	1423.8	1430.6	1442.4	1455.9	1471.9	1488.8	1503.1	1520.0	1525.9	1530.2
15°	1479.5	1486.3	1493.9	1505.7	1520.0	1539.4	1563.9	1581.6	1601.9	1617.1	1628.1
17.5°	1566.4	1566.4	1584.2	1587.5	1615.4	1644.9	1675.3	1709.9	1731.0	1743.7	1763.9
20°	1691.4	1691.4	1715.0	1726.0	1749.6	1787.6	1828.9	1866.9	1897.3	1922.6	1941.2
22.5°	1907.4	1898.1	1918.4	1915.9	1944.6	2001.1	2041.6	2062.7	2103.2	2118.4	2142.9
25°	2158.1	2191.0	2212.9	2212.9	2224.8	2283.0	2316.8	2332.8	2369.9	2359.0	2384.3
27.5°	2465.3	2553.9	2635.8	2669.5	2653.5	2717.7	2729.5	2744.7	2740.4	2714.3	2706.7
30°	2767.4	2923.6	3051.0	3128.7	3218.1	3342.2	3342.2	3362.5	3318.6	3246.0	3202.9
32.5°	2976.8	3177.6	3372.6	3533.8	3685.7	3875.6	3955.8	4067.2	4085.8	4113.6	4017.4
35°	3148.9	3430.8	3640.1	3882.4	4068.0	4260.5	4474.0	4667.3	4795.6	4774.5	4736.5
37.5°	3267.1	3629.2	3921.2	4205.6	4488.3	4708.6	4911.2	5163.5	5409.1	5458.1	5355.1
40°	3349.8	3769.3	4171.0	4520.4	4875.7	5206.6	5453.0	5723.9	6108.8	6271.7	6187.3
42.5°	3389.5	3879.0	4327.1	4771.9	5221.8	5639.5	5948.4	6319.8	6776.4	7054.9	6962.1
45°	3406.3	3946.5	4453.7	4960.1	5500.3	6016.0	6414.3	6835.5	7349.5	7796.8	7813.7
47.5°	3402.1	3982.8	4540.7	5094.3	5718.9	6319.0	6853.2	7330.9	7913.3	8383.4	8558.1
50°	3390.3	3995.5	4593.0	5175.4	5856.5	6540.9	7142.7	7710.7	8361.4	8956.4	9222.3
52.5°	3389.5	3998.0	4619.2	5220.1	5937.5	6676.8	7324.2	7995.1	8708.3	9330.3	9744.7
55°	3409.7	4013.2	4647.9	5251.3	5981.4	6753.6	7426.3	8173.2	8859.4	9565.8	10100.9
57.5°	3491.6	4084.1	4716.2	5304.5	6030.3	6814.4	7505.6	8224.7	8904.1	9663.7	10307.7
60°	3671.4	4216.6	4835.2	5402.4	6157.8	6973.9	7580.7	8152.1	8819.7	9635.8	10337.2
62.5°	3951.6	4429.3	5001.5	5583.0	6416.9	7276.9	7612.0	7985.8	8611.2	9475.5	10209.8
63°	4023.3	4485.8	5045.4	5632.8	6492.0	7334.3	7609.4	7942.0	8553.8	9428.2	10152.4
65°	4322.9	4747.4	5249.6	5870.8	6833.8	7516.6	7517.4	7683.7	8261.0	9167.4	9916.9
67.5°	4773.6	5178.7	5567.0	6184.8	7211.9	7607.7	7244.8	7119.1	7629.7	8615.5	9319.3
70°	5074.1	5574.6	5792.3	6267.5	7263.4	7497.2	6813.5	6394.1	6817.8	7641.5	8266.9
72.5°	5081.7	5652.2	5715.5	5914.7	6781.5	6968.8	6070.8	5502.8	5757.7	6448.9	6778.1
75°	4539.0	5256.4	5126.4	5053.0	5522.2	5602.4	4910.3	4674.0	5000.6	5409.1	5244.6
77.5°	3374.3	4328.0	4063.8	3751.5	3922.0	3933.8	3955.8	4401.4	4802.3	4969.4	4729.7
80°	2093.9	3179.3	2976.8	2461.9	2527.8	2721.9	3304.2	4091.7	4530.5	4650.4	4171.0
82.5°	1262.6	2338.7	2230.7	1878.7	1961.4	2445.0	3089.0	3306.8	3454.5	3443.5	2948.1
85°	925.0	1588.4	1735.2	1761.4	2055.1	2374.1	2360.6	2199.4	2109.1	1855.9	1584.2
87.5°	291.2	819.5	972.3	1133.5	1241.5	1174.8	1155.4	998.4	714.9	604.3	664.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1387.5	1390.9	1392.6	1391.7	1392.6	1392.6	1397.6	1396.0	1397.6	1396.8	1401.9
5°	1408.6	1413.7	1417.9	1417.9	1418.7	1420.4	1427.2	1427.2	1430.6	1437.3	1440.7
7.5°	1450.0	1456.7	1457.6	1459.3	1464.3	1461.8	1466.0	1467.7	1470.2	1473.6	1477.8
10°	1493.0	1502.3	1502.3	1501.5	1502.3	1495.6	1498.1	1493.0	1493.9	1498.9	1504.0
12.5°	1541.1	1546.2	1542.8	1540.3	1540.3	1527.6	1525.9	1519.2	1515.8	1516.7	1518.3
15°	1637.3	1633.1	1632.3	1628.1	1612.9	1603.6	1596.8	1575.7	1564.8	1558.9	1548.7
17.5°	1765.6	1768.2	1763.9	1759.7	1737.8	1706.5	1693.0	1670.3	1655.1	1639.9	1621.3
20°	1953.0	1936.1	1934.4	1920.9	1890.5	1846.7	1813.7	1776.6	1755.5	1733.6	1714.1
22.5°	2159.8	2142.0	2130.2	2104.1	2059.3	2003.6	1948.8	1901.5	1869.4	1853.4	1839.9
25°	2389.3	2379.2	2359.8	2293.1	2257.7	2193.5	2133.6	2087.2	2050.9	2037.4	2013.8
27.5°	2664.5	2672.1	2635.8	2573.3	2528.6	2438.3	2386.8	2306.6	2276.2	2227.3	2196.9
30°	3165.8	3116.9	3055.2	2959.9	2869.6	2748.0	2662.8	2579.2	2534.5	2468.7	2387.7
32.5°	3985.3	3798.8	3633.4	3430.8	3239.2	3083.9	2960.7	2855.2	2786.9	2678.0	2540.4
35°	4646.2	4466.4	4192.9	3898.4	3646.9	3447.7	3292.4	3192.8	3056.1	2882.2	2683.0
37.5°	5130.6	4923.8	4668.1	4442.8	4168.5	3946.5	3736.3	3529.6	3337.1	3073.8	2819.8
40°	5917.2	5637.0	5215.9	4950.0	4725.5	4425.0	4228.4	3949.9	3657.0	3317.7	2949.7
42.5°	6695.4	6324.0	5942.5	5637.0	5318.0	4992.2	4722.1	4348.2	3959.2	3519.4	3066.2
45°	7599.3	7144.4	6645.6	6218.5	5891.1	5507.9	5161.8	4702.7	4206.5	3684.9	3167.5
47.5°	8311.6	7860.9	7298.0	6867.6	6426.1	5994.0	5545.0	4978.7	4390.4	3819.9	3262.0
50°	8994.4	8559.8	7961.4	7433.0	6925.8	6404.2	5861.5	5174.5	4534.8	3925.4	3337.1
52.5°	9607.1	9220.6	8574.1	7942.8	7375.6	6774.7	6102.1	5357.7	4673.2	4034.3	3396.2
55°	10126.2	9764.1	9184.3	8398.6	7754.6	7089.5	6329.1	5524.8	4819.2	4148.2	3439.3
57.5°	10474.8	10265.5	9646.0	8799.4	8066.0	7357.9	6500.4	5692.7	4955.9	4219.1	3457.8
60°	10636.8	10609.0	10084.8	9161.5	8342.9	7567.2	6716.5	5870.8	5046.2	4251.2	3431.7
62.5°	10603.1	10802.2	10419.1	9409.7	8519.2	7698.0	6854.9	5947.6	5023.4	4173.5	3316.0
63°	10571.8	10810.7	10466.3	9434.1	8533.6	7710.7	6868.4	5938.3	5002.3	4138.9	3276.4
65°	10343.1	10711.1	10478.1	9390.2	8467.8	7674.4	6807.6	5792.3	4792.2	3921.2	3051.9
67.5°	9782.7	10151.5	10022.4	8906.6	8041.5	7284.5	6383.1	5295.2	4277.3	3458.7	2635.8
70°	8625.6	8955.6	8801.1	7819.6	7016.1	6479.3	5622.7	4403.9	3484.8	2780.1	2006.2
72.5°	6822.8	7054.9	7088.7	6308.8	5693.6	5371.2	4529.7	3321.9	2545.5	1936.1	1302.3
75°	5052.1	4998.1	5009.1	4573.6	4322.9	4187.0	3386.1	2278.8	1715.0	1183.3	772.3
77.5°	4246.1	3857.9	3527.0	3406.3	3114.3	3029.9	2233.2	1398.5	1001.0	708.1	439.7
80°	3452.8	2864.5	2383.4	2169.9	2056.0	2072.8	1235.6	745.2	524.1	385.7	275.1
82.5°	2360.6	1913.3	1509.1	1310.7	1290.5	1309.9	642.3	365.4	276.8	222.0	173.0
85°	1396.0	1314.1	1173.1	1041.5	995.9	940.2	477.7	261.6	142.6	118.2	97.1
87.5°	603.5	741.0	758.7	755.4	703.0	564.6	175.6	67.5	59.9	30.4	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1401.9	1402.7	1401.0	1402.7	1408.6	1408.6	1407.8	1409.5	1410.3	1415.4	1413.7
5°	1444.1	1444.9	1445.8	1451.7	1455.9	1460.9	1459.3	1460.9	1464.3	1465.2	1466.9
7.5°	1482.9	1488.0	1494.7	1497.2	1504.8	1506.5	1514.1	1515.0	1516.7	1513.3	1509.9
10°	1509.9	1515.0	1523.4	1527.6	1541.1	1542.8	1548.7	1550.4	1553.8	1551.3	1548.7
12.5°	1523.4	1527.6	1536.9	1545.3	1563.9	1569.8	1580.0	1585.9	1590.1	1587.5	1579.1
15°	1551.3	1550.4	1555.5	1562.2	1579.1	1590.1	1604.4	1612.0	1617.1	1612.9	1601.9
17.5°	1615.4	1603.6	1603.6	1599.4	1612.0	1614.6	1620.5	1624.7	1623.0	1610.3	1592.6
20°	1704.0	1686.3	1675.3	1665.2	1661.0	1639.9	1628.9	1613.7	1600.2	1577.4	1557.2
22.5°	1818.8	1806.1	1780.8	1758.0	1726.0	1682.9	1636.5	1596.8	1567.3	1536.1	1501.5
25°	1992.7	1964.0	1927.7	1873.7	1832.3	1756.3	1678.7	1603.6	1540.3	1491.3	1433.1
27.5°	2156.4	2095.6	2027.3	1942.9	1866.9	1765.6	1666.9	1580.0	1497.2	1418.7	1352.1
30°	2293.1	2187.6	2076.2	1958.1	1850.0	1727.6	1612.9	1514.1	1420.4	1327.6	1264.3
32.5°	2396.1	2244.2	2095.6	1944.6	1811.2	1667.7	1536.1	1430.6	1324.2	1226.3	1152.9
35°	2488.9	2283.8	2089.7	1908.3	1750.4	1591.8	1450.0	1331.8	1215.3	1110.7	1026.3
37.5°	2555.6	2297.3	2064.4	1855.9	1672.8	1498.9	1345.3	1219.6	1094.7	988.3	895.5
40°	2607.1	2290.6	2016.3	1775.8	1566.4	1385.8	1235.6	1103.9	979.0	872.7	775.6
42.5°	2641.7	2265.3	1943.7	1684.6	1477.8	1288.8	1141.9	1003.5	878.6	767.2	660.0
45°	2686.4	2255.1	1899.0	1616.2	1397.6	1206.9	1049.9	914.9	784.9	668.4	566.3
47.5°	2728.6	2249.2	1862.7	1559.7	1325.1	1132.6	977.3	835.6	704.7	590.8	498.0
50°	2753.9	2240.0	1824.7	1491.3	1244.0	1056.7	908.1	764.7	633.0	524.1	441.4
52.5°	2761.5	2221.4	1774.9	1413.7	1174.0	991.7	837.2	693.8	567.2	469.3	392.5
55°	2755.6	2185.1	1707.4	1350.4	1102.3	920.0	765.5	626.2	511.5	419.5	357.9
57.5°	2726.9	2112.5	1620.5	1270.2	1020.4	829.6	677.7	550.3	448.2	374.7	327.5
60°	2662.8	2007.9	1514.1	1158.0	903.1	722.5	579.0	469.3	383.2	330.0	298.8
62.5°	2522.7	1856.8	1359.7	999.3	746.1	579.8	454.9	373.9	315.7	287.8	269.2
63°	2481.3	1804.5	1314.1	957.1	719.1	547.8	427.1	353.6	301.3	278.5	263.3
65°	2263.6	1563.1	1110.7	769.7	557.0	415.2	325.8	277.7	249.8	241.4	237.2
67.5°	1855.1	1216.2	781.5	516.5	373.9	287.0	240.5	222.0	211.8	211.0	213.5
70°	1310.7	806.9	483.6	330.8	257.4	216.9	199.2	190.7	185.7	187.4	192.4
72.5°	852.4	473.5	305.5	242.2	209.3	190.7	178.1	175.6	173.9	172.2	173.9
75°	450.7	296.2	231.3	202.6	183.1	168.0	159.5	156.1	157.0	157.0	157.0
77.5°	279.4	225.3	197.5	178.9	163.7	148.5	140.1	137.6	138.4	140.1	140.9
80°	214.4	196.6	173.9	160.4	138.4	125.8	121.5	120.7	122.4	122.4	124.9
82.5°	157.0	151.9	143.5	126.6	109.7	101.3	100.4	103.8	100.4	99.6	101.3
85°	92.0	86.1	93.7	80.2	73.4	68.4	71.7	78.5	81.9	77.6	76.0
87.5°	29.5	20.3	29.5	32.9	29.5	25.3	32.1	38.0	38.8	37.1	42.2
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: P145758

CATALOG NUMBER: LDRL-SLL-E05-E-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1412.8	1418.7	1412.8	1415.4	1414.5	1412.8	1415.4	1412.0	1410.3	1415.4	1414.5
5°	1466.0	1466.9	1459.3	1460.1	1459.3	1452.5	1452.5	1449.1	1444.9	1445.8	1444.1
7.5°	1509.1	1507.4	1501.5	1498.9	1491.3	1486.3	1482.9	1477.8	1474.5	1471.1	1469.4
10°	1542.0	1537.8	1533.5	1525.9	1518.3	1514.1	1504.8	1497.2	1494.7	1489.6	1486.3
12.5°	1570.7	1563.1	1556.3	1547.0	1537.8	1531.0	1520.0	1514.1	1509.9	1503.1	1498.1
15°	1586.7	1572.4	1559.7	1545.3	1535.2	1525.1	1512.4	1509.9	1504.0	1497.2	1488.0
17.5°	1567.3	1547.0	1523.4	1508.2	1493.0	1477.8	1465.2	1465.2	1462.6	1455.0	1439.0
20°	1527.6	1497.2	1469.4	1444.9	1429.7	1407.8	1400.2	1388.4	1379.9	1366.4	1346.2
22.5°	1462.6	1430.6	1394.3	1369.8	1343.6	1319.2	1304.0	1285.4	1278.6	1256.7	1229.7
25°	1390.1	1343.6	1304.8	1272.7	1236.4	1207.8	1186.7	1161.3	1144.5	1123.4	1089.6
27.5°	1304.0	1255.9	1212.0	1176.5	1138.5	1098.9	1060.1	1030.5	1000.1	975.7	956.2
30°	1211.1	1161.3	1107.3	1066.0	1022.1	972.3	940.2	900.5	876.9	849.9	824.6
32.5°	1089.6	1045.7	982.4	934.3	880.3	841.5	815.3	777.3	749.5	726.7	712.3
35°	956.2	890.4	827.1	790.8	753.7	722.5	686.2	656.6	638.1	614.4	601.8
37.5°	811.1	734.3	680.3	648.2	610.2	595.0	572.2	554.5	537.6	521.6	511.5
40°	681.1	610.2	561.3	534.2	508.9	492.0	477.7	470.1	459.1	446.5	438.9
42.5°	573.1	516.5	468.4	443.1	423.7	422.0	412.7	406.8	402.6	395.0	383.2
45°	488.7	437.2	395.8	375.6	367.1	368.0	368.0	362.9	362.9	360.4	352.8
47.5°	432.1	385.7	355.3	341.8	338.4	339.3	336.8	335.1	335.9	335.1	330.8
50°	388.2	348.6	323.2	318.2	317.3	316.5	313.1	310.6	309.7	311.4	310.6
52.5°	343.5	310.6	296.2	294.6	295.4	295.4	294.6	293.7	295.4	297.1	294.6
55°	318.2	294.6	285.3	285.3	285.3	285.3	284.4	283.6	286.1	288.6	284.4
57.5°	294.6	277.7	274.3	274.3	274.3	272.6	272.6	273.5	276.8	281.9	276.8
60°	276.8	268.4	268.4	269.2	268.4	265.0	262.5	262.5	266.7	273.5	269.2
62.5°	259.9	255.7	257.4	256.6	254.9	250.7	247.3	247.3	252.4	259.1	260.8
63°	255.7	252.4	254.0	253.2	251.5	248.1	244.8	244.8	249.0	255.7	258.3
65°	237.2	238.0	238.8	239.7	238.8	238.0	233.8	232.1	235.5	240.5	243.9
67.5°	215.2	216.9	218.6	222.8	221.1	221.1	218.6	216.9	217.7	220.3	222.8
70°	195.0	196.6	199.2	200.9	201.7	202.6	200.9	198.3	199.2	200.0	201.7
72.5°	175.6	177.2	178.9	182.3	182.3	182.3	180.6	178.9	179.8	181.5	183.1
75°	157.8	158.7	160.4	162.9	163.7	162.0	162.0	160.4	161.2	163.7	165.4
77.5°	140.1	138.4	139.3	140.9	143.5	143.5	144.3	143.5	145.2	146.9	148.5
80°	119.8	118.2	116.5	117.3	120.7	124.9	129.1	129.1	131.7	132.5	135.0
82.5°	95.4	93.7	92.8	95.4	94.5	100.4	109.7	114.8	118.2	121.5	123.2
85°	74.3	70.1	71.7	71.7	70.1	79.3	87.8	94.5	95.4	100.4	101.3
87.5°	43.9	42.2	40.5	38.8	44.7	54.0	61.6	64.1	65.8	68.4	70.9
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: P145758

CATALOG NUMBER: LDRL-SLL-E05-E-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1407.8	1414.5	1412.8	1412.0	1412.8	1412.0	1409.5	1410.3	1408.6	1409.5	1407.8
5°	1434.8	1438.2	1435.6	1431.4	1431.4	1425.5	1421.3	1417.9	1413.7	1412.0	1408.6
7.5°	1460.9	1458.4	1455.0	1447.4	1443.2	1435.6	1429.7	1423.0	1418.7	1413.7	1407.8
10°	1477.0	1471.9	1465.2	1455.9	1444.1	1437.3	1428.9	1418.7	1413.7	1411.2	1405.2
12.5°	1484.6	1471.1	1460.1	1443.2	1426.3	1413.7	1404.4	1394.3	1391.7	1388.4	1384.1
15°	1466.9	1447.4	1419.6	1396.8	1374.9	1357.1	1349.5	1338.6	1336.0	1335.2	1334.3
17.5°	1406.9	1377.4	1350.4	1320.0	1300.6	1284.6	1277.8	1275.3	1271.1	1269.4	1270.2
20°	1310.7	1285.4	1258.4	1248.3	1225.5	1221.3	1211.1	1204.4	1196.8	1194.2	1190.0
22.5°	1198.5	1167.2	1150.4	1142.8	1133.5	1111.5	1106.5	1099.7	1089.6	1082.0	1080.3
25°	1067.6	1042.3	1041.5	1023.8	1016.2	1004.3	990.8	982.4	976.5	967.2	960.5
27.5°	934.3	925.0	909.0	895.5	890.4	883.7	863.4	859.2	852.4	844.8	837.2
30°	810.2	803.5	788.3	775.6	768.0	754.5	735.1	736.8	723.3	713.2	706.4
32.5°	689.5	684.5	670.1	666.8	642.3	635.5	615.3	600.1	586.6	576.4	568.0
35°	580.7	567.2	568.0	552.8	539.3	519.1	498.0	478.5	467.6	462.5	454.9
37.5°	502.2	489.5	476.9	460.0	444.8	430.4	417.8	411.9	405.1	406.8	407.6
40°	431.3	422.0	412.7	400.9	391.6	385.7	382.3	382.3	383.2	387.4	390.8
42.5°	380.6	373.0	368.0	363.8	365.4	365.4	368.0	372.2	376.4	382.3	385.7
45°	346.9	342.7	341.0	342.7	347.7	351.9	357.9	364.6	371.4	377.3	379.8
47.5°	326.6	324.1	324.1	328.3	335.9	342.7	351.9	358.7	366.3	371.4	373.0
50°	304.7	303.8	303.8	307.2	314.0	322.4	331.7	338.4	345.2	349.4	351.1
52.5°	292.0	289.5	288.6	292.9	298.8	307.2	316.5	323.2	328.3	331.7	332.5
55°	281.0	278.5	276.8	281.9	288.6	296.2	307.2	314.8	319.9	324.1	327.5
57.5°	271.8	269.2	267.5	273.5	280.2	289.5	298.8	307.2	314.0	319.0	322.4
60°	264.2	260.8	259.1	265.9	272.6	281.9	291.2	300.5	309.7	315.7	317.3
62.5°	254.9	252.4	249.8	254.0	257.4	264.2	272.6	281.9	290.3	296.2	296.2
63°	252.4	251.5	248.1	251.5	254.9	260.8	269.2	277.7	286.1	292.9	292.0
65°	241.4	241.4	239.7	243.1	246.4	252.4	259.1	268.4	276.0	281.0	281.9
67.5°	223.7	224.5	226.2	229.6	236.3	242.2	249.8	258.3	265.0	268.4	270.1
70°	203.4	205.1	208.5	213.5	219.4	224.5	229.6	238.0	243.9	247.3	249.0
72.5°	184.0	188.2	190.7	195.0	198.3	203.4	207.6	216.1	221.1	223.7	227.9
75°	166.3	169.6	171.3	173.9	177.2	178.9	184.0	187.4	194.1	197.5	202.6
77.5°	149.4	151.1	153.6	157.8	158.7	161.2	162.9	168.0	171.3	174.7	178.9
80°	134.2	135.9	139.3	141.8	142.6	144.3	145.2	144.3	143.5	140.9	144.3
82.5°	120.7	122.4	126.6	129.1	131.7	131.7	130.8	121.5	117.3	119.0	121.5
85°	99.6	101.3	105.5	110.6	111.4	110.6	111.4	102.1	96.2	93.7	96.2
87.5°	62.5	60.8	75.1	81.9	76.8	78.5	79.3	74.3	69.2	59.1	61.6
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: P145758
 CATALOG NUMBER: LDRL-SLL-E05-E-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	0°
2.5°	1409.5	1403.6	1404.4	1406.1	1406.1	1408.6	1405.2	1401.0	1403.6	1399.3	1398.5	2.5°
5°	1408.6	1401.0	1401.0	1402.7	1401.0	1402.7	1400.2	1396.0	1398.5	1393.4	1392.6	5°
7.5°	1405.2	1401.0	1402.7	1404.4	1401.9	1402.7	1401.9	1396.0	1396.8	1394.3	1388.4	7.5°
10°	1403.6	1401.0	1404.4	1409.5	1409.5	1410.3	1407.8	1401.0	1396.8	1394.3	1389.2	10°
12.5°	1385.8	1389.2	1396.0	1407.8	1412.0	1418.7	1422.1	1418.7	1420.4	1417.1	1415.4	12.5°
15°	1335.2	1343.6	1354.6	1372.3	1385.0	1400.2	1418.7	1427.2	1443.2	1455.9	1464.3	15°
17.5°	1274.4	1280.3	1292.2	1312.4	1328.4	1358.8	1384.1	1412.8	1444.1	1477.8	1507.4	17.5°
20°	1199.3	1195.1	1213.7	1235.6	1263.5	1297.2	1334.3	1377.4	1428.9	1482.9	1534.4	20°
22.5°	1088.7	1088.7	1108.2	1134.3	1168.1	1206.9	1258.4	1304.8	1372.3	1450.8	1526.8	22.5°
25°	962.1	964.7	978.2	1007.7	1031.4	1087.1	1135.2	1195.1	1276.1	1362.2	1463.5	25°
27.5°	827.1	844.0	840.6	871.8	903.1	957.9	1023.8	1084.5	1174.8	1266.8	1382.5	27.5°
30°	704.7	702.2	701.4	738.5	769.7	819.5	873.5	950.3	1041.5	1159.6	1293.0	30°
32.5°	552.8	562.1	568.8	590.8	624.6	671.0	729.2	809.4	919.1	1038.1	1188.3	32.5°
35°	456.6	459.1	468.4	481.1	510.6	549.4	610.2	681.1	777.3	900.5	1060.1	35°
37.5°	409.3	411.9	422.0	433.8	454.9	483.6	525.0	579.8	668.4	783.2	931.8	37.5°
40°	394.1	396.7	402.6	413.6	433.0	457.4	490.4	532.6	596.7	686.2	816.1	40°
42.5°	387.4	387.4	388.2	396.7	416.1	444.8	480.2	518.2	565.5	633.0	738.5	42.5°
45°	379.8	379.8	379.0	384.9	400.1	433.0	476.0	522.4	573.9	632.1	714.9	45°
47.5°	373.0	371.4	369.7	372.2	384.9	418.6	468.4	525.0	590.8	663.4	746.9	47.5°
50°	349.4	349.4	348.6	349.4	361.2	396.7	454.1	522.4	606.0	699.7	800.9	50°
52.5°	332.5	333.4	334.2	334.2	343.5	379.8	443.1	523.3	622.9	735.1	863.4	52.5°
55°	328.3	330.0	330.0	328.3	335.9	368.8	433.0	520.7	634.7	774.8	930.1	55°
57.5°	323.2	324.1	324.9	323.2	328.3	357.0	418.6	508.9	631.3	790.0	979.9	57.5°
60°	316.5	313.1	312.3	309.7	313.1	335.9	393.3	483.6	611.0	783.2	996.8	60°
62.5°	297.9	295.4	292.9	290.3	292.9	309.7	365.4	452.4	577.3	756.2	983.2	62.5°
63°	293.7	292.0	289.5	287.0	287.0	305.5	356.2	444.8	568.8	748.6	978.2	63°
65°	281.9	281.0	279.4	276.8	276.0	290.3	335.1	410.2	529.2	714.9	946.1	65°
67.5°	268.4	268.4	267.5	264.2	259.9	268.4	299.6	358.7	460.0	627.9	866.8	67.5°
70°	249.0	249.0	248.1	246.4	241.4	247.3	267.5	306.4	379.0	513.1	726.7	70°
72.5°	229.6	229.6	232.1	231.3	232.1	232.9	243.1	264.2	308.1	399.2	549.4	72.5°
75°	204.2	208.5	209.3	211.0	211.8	211.0	216.1	228.7	254.0	306.4	400.9	75°
77.5°	183.1	189.1	188.2	186.5	185.7	186.5	185.7	191.6	210.2	243.1	297.1	77.5°
80°	151.1	157.0	157.0	156.1	154.5	156.1	154.5	160.4	175.6	204.2	236.3	80°
82.5°	124.1	128.3	130.8	132.5	130.8	137.6	137.6	135.9	147.7	173.0	199.2	82.5°
85°	99.6	103.8	106.3	109.7	111.4	109.7	108.9	107.2	113.9	134.2	151.9	85°
87.5°	63.3	66.7	66.7	67.5	67.5	70.1	65.0	59.1	54.0	76.8	80.2	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: P145758

NUMBER: LDRL-SLL-E05-E-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
1396.0	1396.0	1396.8	1394.3	1396.8	1396.8	1394.3
1390.1	1388.4	1388.4	1387.5	1389.2	1388.4	1387.5
1385.0	1385.0	1381.6	1379.1	1378.2	1381.6	1379.9
1383.3	1381.6	1380.8	1379.1	1379.9	1382.5	1384.1
1413.7	1407.8	1409.5	1408.6	1409.5	1412.0	1417.1
1469.4	1469.4	1473.6	1464.3	1468.5	1472.8	1479.5
1531.8	1547.0	1554.6	1553.8	1555.5	1558.9	1566.4
1585.0	1633.1	1666.9	1675.3	1698.1	1703.2	1691.4
1608.6	1694.7	1770.7	1821.3	1877.9	1900.7	1907.4
1560.5	1684.6	1809.5	1926.0	2037.4	2101.5	2158.1
1510.7	1657.6	1823.9	1997.7	2179.2	2342.9	2465.3
1441.5	1635.7	1860.2	2094.8	2335.3	2563.2	2767.4
1365.6	1600.2	1863.5	2148.8	2445.9	2729.5	2976.8
1256.7	1517.5	1809.5	2140.4	2484.7	2840.0	3148.9
1131.8	1385.8	1713.3	2091.4	2482.2	2896.6	3267.1
998.4	1258.4	1602.7	2007.9	2449.3	2914.3	3349.8
898.0	1155.4	1493.0	1928.5	2400.3	2902.5	3389.5
846.5	1066.8	1403.6	1850.9	2345.5	2873.8	3406.3
856.7	1043.2	1350.4	1786.7	2296.5	2842.6	3402.1
913.2	1078.6	1349.5	1763.1	2265.3	2813.9	3390.3
998.4	1158.8	1398.5	1790.9	2282.2	2811.3	3389.5
1094.7	1271.1	1516.7	1866.1	2353.9	2856.9	3409.7
1187.5	1407.8	1668.6	2034.0	2489.8	2970.8	3491.6
1242.4	1532.7	1863.5	2271.2	2699.1	3170.9	3671.4
1255.0	1607.8	2036.6	2504.1	2986.0	3460.4	3951.6
1254.2	1615.4	2066.1	2552.2	3044.3	3527.0	4023.3
1234.8	1630.6	2145.4	2710.9	3278.1	3813.2	4322.9
1174.0	1603.6	2189.3	2858.6	3510.2	4128.8	4773.6
1034.7	1480.4	2137.8	2906.7	3648.6	4338.1	5074.1
810.2	1221.3	1845.8	2656.9	3461.2	4150.7	5081.7
569.7	863.4	1420.4	2181.7	2829.1	3507.6	4539.0
396.7	559.6	922.5	1467.7	2041.6	2559.0	3374.3
290.3	372.2	552.8	877.8	1239.0	1599.4	2093.9
223.7	268.4	353.6	530.0	699.7	895.5	1262.6
157.0	177.2	218.6	327.5	469.3	640.6	925.0
68.4	80.2	105.5	193.3	317.3	305.5	291.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)