

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: P145809

Luminaire Tested: **LDRC-SLL-E04-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145809
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: LDRC-SLL-E04-E-7030
Description: RC LED ROADWAY SMALL CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9840.2 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

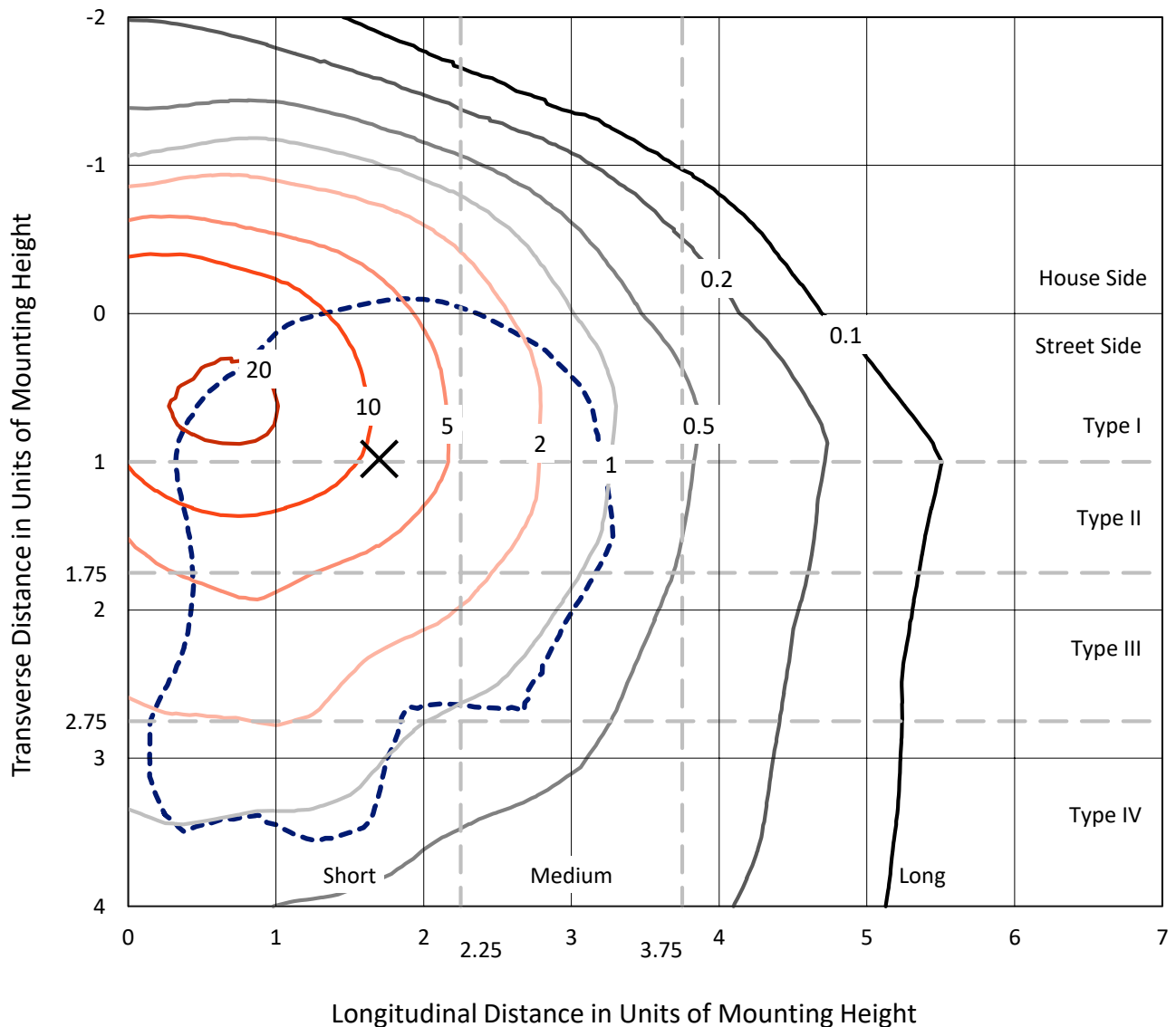
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

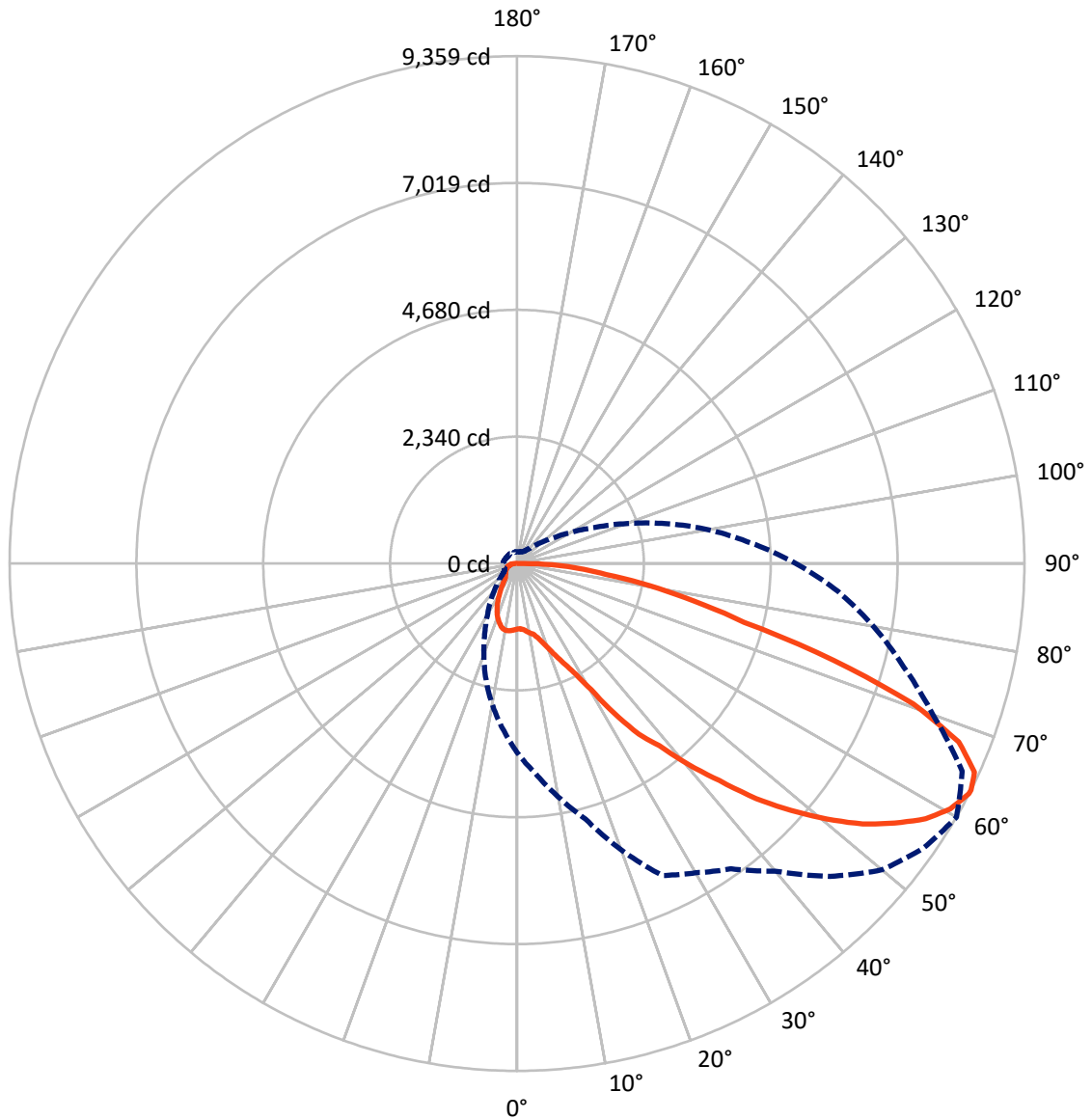
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.8	0.0	2059.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7780.4	0.0	7780.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	9840.2	0.0	9840.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.2
10°-20°	370.4	3.8
20°-30°	655.1	6.7
30°-40°	1034.2	10.5
40°-50°	1520.8	15.5
50°-60°	2003.4	20.4
60°-70°	2232.9	22.7
70°-80°	1467.1	14.9
80°-90°	437.5	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°	9840.2	100.0
0°-180°	9840.2	100.0



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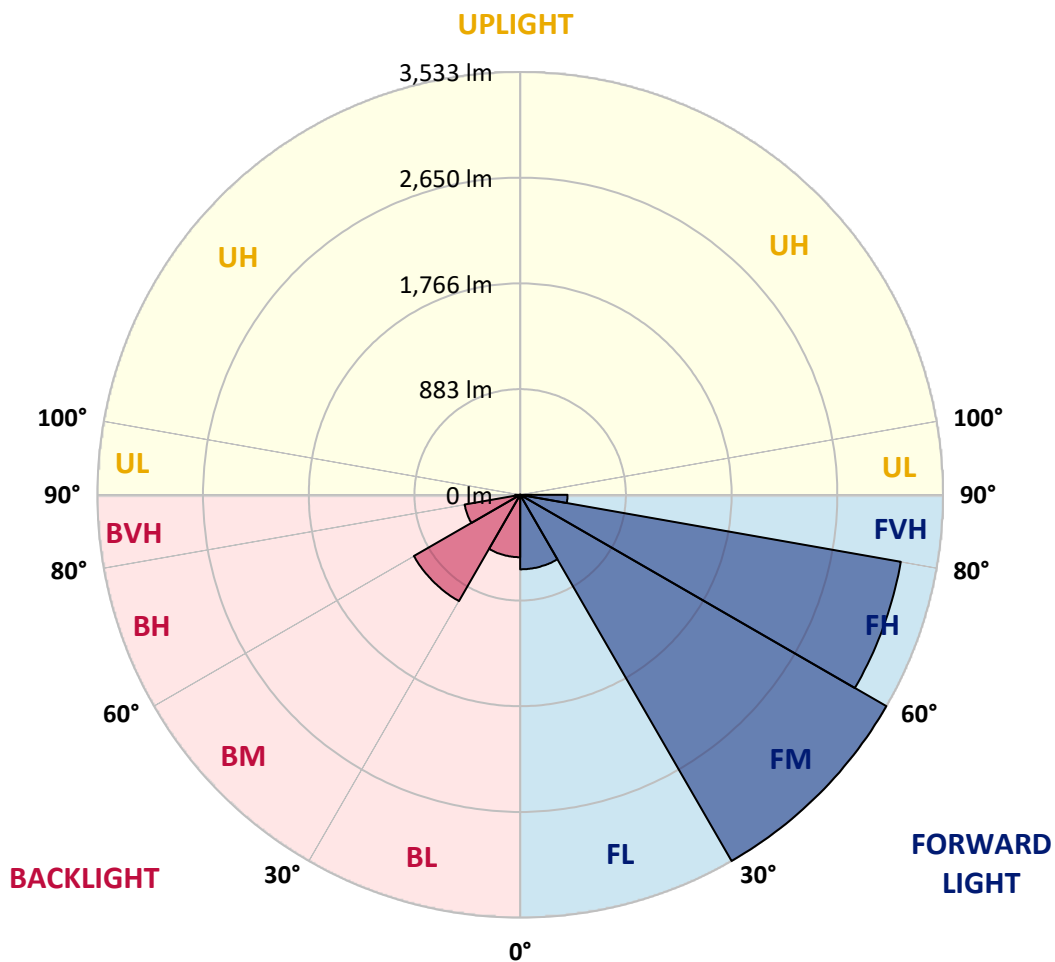
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.8	6.3			
FM	(30°-60°)	3532.9	35.9			
FH	(60°-80°)	3229.3	32.8			G2/5000
FVH	(80°-90°)	395.4	4.0			G3/500
BL	(0°-30°)	521.4	5.3	B2/1000		
BM	(30°-60°)	1025.5	10.4	B2/2500		
BH	(60°-80°)	470.8	4.8	B1/500		G1/500
BVH	(80°-90°)	42.1	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1207.1	1207.8	1205.6	1204.9	1203.4	1204.2	1204.2	1202.7	1202.7	1203.4	1201.2
5°	1201.2	1202.7	1202.0	1203.4	1204.9	1207.1	1209.3	1211.5	1213.7	1216.6	1217.3
7.5°	1194.7	1199.0	1199.8	1204.2	1209.3	1215.1	1222.4	1230.5	1241.4	1244.3	1250.9
10°	1198.3	1206.4	1210.7	1219.5	1227.5	1238.5	1251.7	1259.7	1273.6	1278.7	1288.2
12.5°	1226.8	1232.7	1238.5	1248.7	1260.4	1274.3	1288.9	1301.3	1316.0	1321.1	1324.7
15°	1280.9	1286.7	1293.3	1303.5	1316.0	1332.8	1354.0	1369.3	1386.8	1400.0	1409.5
17.5°	1356.1	1356.1	1371.5	1374.4	1398.5	1424.1	1450.4	1480.4	1498.6	1509.6	1527.1
20°	1464.3	1464.3	1484.7	1494.2	1514.7	1547.6	1583.4	1616.3	1642.6	1664.5	1680.6
22.5°	1651.3	1643.3	1660.8	1658.6	1683.5	1732.4	1767.5	1785.8	1820.9	1834.0	1855.2
25°	1868.3	1896.8	1915.8	1915.8	1926.1	1976.5	2005.7	2019.6	2051.8	2042.3	2064.2
27.5°	2134.3	2211.0	2281.9	2311.1	2297.3	2352.8	2363.0	2376.2	2372.5	2349.9	2343.3
30°	2395.9	2531.1	2641.4	2708.6	2786.1	2893.5	2893.5	2911.0	2873.0	2810.2	2772.9
32.5°	2577.1	2751.0	2919.8	3059.4	3190.9	3355.3	3424.7	3521.1	3537.2	3561.3	3478.0
35°	2726.2	2970.2	3151.4	3361.1	3521.9	3688.5	3873.3	4040.7	4151.7	4133.5	4100.6
37.5°	2828.5	3141.9	3394.7	3641.0	3885.8	4076.5	4251.8	4470.3	4682.9	4725.3	4636.2
40°	2900.1	3263.2	3611.0	3913.5	4221.1	4507.6	4720.9	4955.5	5288.7	5429.7	5356.6
42.5°	2934.4	3358.2	3746.2	4131.3	4520.7	4882.4	5149.8	5471.3	5866.6	6107.8	6027.4
45°	2949.0	3416.7	3855.8	4294.2	4761.8	5208.3	5553.2	5917.8	6362.8	6750.0	6764.6
47.5°	2945.4	3448.1	3931.1	4410.4	4951.1	5470.6	5933.1	6346.7	6850.9	7257.8	7409.1
50°	2935.1	3459.0	3976.4	4480.5	5070.2	5662.8	6183.7	6675.5	7238.8	7754.0	7984.1
52.5°	2934.4	3461.2	3999.0	4519.3	5140.3	5780.4	6340.8	6921.7	7539.2	8077.7	8436.4
55°	2951.9	3474.4	4023.9	4546.3	5178.3	5846.9	6429.3	7075.9	7670.0	8281.5	8744.8
57.5°	3022.8	3535.8	4083.0	4592.3	5220.7	5899.5	6497.9	7120.5	7708.7	8366.3	8923.8
60°	3178.5	3650.5	4186.1	4677.1	5331.0	6037.6	6563.0	7057.6	7635.6	8342.2	8949.4
62.5°	3421.0	3834.6	4330.0	4833.4	5555.4	6299.9	6590.0	6913.7	7455.1	8203.3	8839.0
63°	3483.2	3883.6	4368.0	4876.6	5620.4	6349.6	6587.8	6875.7	7405.4	8162.4	8789.4
65°	3742.5	4110.1	4544.8	5082.6	5916.3	6507.4	6508.2	6652.1	7151.9	7936.6	8585.5
67.5°	4132.7	4483.5	4819.6	5354.4	6243.7	6586.4	6272.2	6163.3	6605.3	7458.8	8068.2
70°	4392.8	4826.1	5014.7	5426.0	6288.2	6490.6	5898.8	5535.6	5902.4	6615.6	7157.0
72.5°	4399.4	4893.4	4948.2	5120.6	5871.0	6033.2	5255.8	4764.0	4984.7	5583.1	5868.1
75°	3929.6	4550.7	4438.2	4374.6	4780.8	4850.3	4251.1	4046.5	4329.3	4682.9	4540.4
77.5°	2921.3	3746.9	3518.2	3247.9	3395.5	3405.7	3424.7	3810.5	4157.6	4302.2	4094.7
80°	1812.8	2752.5	2577.1	2131.4	2188.4	2356.4	2860.6	3542.3	3922.3	4026.0	3611.0
82.5°	1093.1	2024.7	1931.2	1626.5	1698.1	2116.8	2674.3	2862.8	2990.7	2981.2	2552.3
85°	800.8	1375.1	1502.3	1524.9	1779.2	2055.4	2043.7	1904.2	1826.0	1606.8	1371.5
87.5°	252.1	709.5	841.7	981.3	1074.8	1017.1	1000.3	864.4	618.9	523.2	575.0
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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1201.2	1204.2	1205.6	1204.9	1205.6	1205.6	1210.0	1208.5	1210.0	1209.3	1213.7
5°	1219.5	1223.9	1227.5	1227.5	1228.3	1229.7	1235.6	1235.6	1238.5	1244.3	1247.3
7.5°	1255.3	1261.2	1261.9	1263.3	1267.7	1265.5	1269.2	1270.7	1272.8	1275.8	1279.4
10°	1292.6	1300.6	1300.6	1299.9	1300.6	1294.8	1297.0	1292.6	1293.3	1297.7	1302.1
12.5°	1334.2	1338.6	1335.7	1333.5	1333.5	1322.5	1321.1	1315.2	1312.3	1313.0	1314.5
15°	1417.5	1413.9	1413.1	1409.5	1396.3	1388.3	1382.4	1364.2	1354.7	1349.6	1340.8
17.5°	1528.6	1530.8	1527.1	1523.5	1504.5	1477.4	1465.7	1446.0	1432.9	1419.7	1403.6
20°	1690.8	1676.2	1674.7	1663.0	1636.7	1598.7	1570.2	1538.1	1519.8	1500.8	1484.0
22.5°	1869.8	1854.5	1844.2	1821.6	1782.9	1734.6	1687.1	1646.2	1618.5	1604.6	1592.9
25°	2068.6	2059.8	2043.0	1985.3	1954.6	1899.0	1847.2	1807.0	1775.6	1763.9	1743.4
27.5°	2306.8	2313.3	2281.9	2227.8	2189.1	2110.9	2066.4	1996.9	1970.6	1928.3	1902.0
30°	2740.8	2698.4	2645.1	2562.5	2484.3	2379.1	2305.3	2233.0	2194.2	2137.2	2067.1
32.5°	3450.3	3288.8	3145.6	2970.2	2804.4	2669.9	2563.2	2471.9	2412.7	2318.4	2199.3
35°	4022.4	3866.8	3630.0	3375.0	3157.3	2984.8	2850.4	2764.2	2645.8	2495.3	2322.8
37.5°	4441.8	4262.8	4041.4	3846.3	3608.8	3416.7	3234.7	3055.7	2889.1	2661.1	2441.2
40°	5122.8	4880.2	4515.6	4285.4	4091.1	3831.0	3660.7	3419.6	3166.0	2872.3	2553.7
42.5°	5796.5	5475.0	5144.7	4880.2	4604.0	4322.0	4088.2	3764.5	3427.6	3046.9	2654.6
45°	6579.0	6185.2	5753.4	5383.7	5100.1	4768.4	4468.8	4071.4	3641.7	3190.2	2742.2
47.5°	7195.7	6805.6	6318.2	5945.5	5563.4	5189.3	4800.6	4310.3	3801.0	3307.1	2824.1
50°	7786.9	7410.6	6892.5	6435.1	5996.0	5544.4	5074.6	4479.8	3925.9	3398.4	2889.1
52.5°	8317.3	7982.7	7423.0	6876.4	6385.4	5865.2	5282.8	4638.4	4045.8	3492.7	2940.3
55°	8766.7	8453.2	7951.3	7271.0	6713.5	6137.7	5479.4	4783.0	4172.2	3591.3	2977.5
57.5°	9068.5	8887.3	8350.9	7618.1	6983.1	6370.1	5627.7	4928.4	4290.6	3652.7	2993.6
60°	9208.8	9184.7	8730.9	7931.5	7222.8	6551.3	5814.8	5082.6	4368.7	3680.4	2970.9
62.5°	9179.5	9352.0	9020.2	8146.4	7375.5	6664.5	5934.6	5149.1	4349.0	3613.2	2870.8
63°	9152.5	9359.3	9061.2	8167.5	7387.9	6675.5	5946.3	5141.1	4330.7	3583.3	2836.5
65°	8954.5	9273.1	9071.4	8129.5	7330.9	6644.1	5893.7	5014.7	4148.8	3394.7	2642.1
67.5°	8469.3	8788.6	8676.8	7710.9	6961.9	6306.5	5526.1	4584.3	3703.1	2994.3	2281.9
70°	7467.6	7753.2	7619.5	6769.8	6074.1	5609.4	4867.8	3812.7	3017.0	2406.9	1736.8
72.5°	5906.8	6107.8	6137.0	5461.8	4929.2	4650.0	3921.6	2876.0	2203.7	1676.2	1127.4
75°	4373.9	4327.1	4336.6	3959.6	3742.5	3624.9	2931.5	1972.8	1484.7	1024.4	668.6
77.5°	3676.1	3339.9	3053.5	2949.0	2696.2	2623.1	1933.4	1210.7	866.6	613.0	380.7
80°	2989.2	2479.9	2063.4	1878.6	1779.9	1794.6	1069.7	645.2	453.8	333.9	238.2
82.5°	2043.7	1656.5	1306.5	1134.7	1117.2	1134.0	556.0	316.4	239.7	192.2	149.8
85°	1208.5	1137.7	1015.6	901.7	862.2	814.0	413.6	226.5	123.5	102.3	84.0
87.5°	522.4	641.5	656.9	654.0	608.7	488.8	152.0	58.5	51.9	26.3	21.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1213.7	1214.4	1212.9	1214.4	1219.5	1219.5	1218.8	1220.2	1221.0	1225.4	1223.9
5°	1250.2	1250.9	1251.7	1256.8	1260.4	1264.8	1263.3	1264.8	1267.7	1268.5	1269.9
7.5°	1283.8	1288.2	1294.0	1296.2	1302.8	1304.3	1310.8	1311.6	1313.0	1310.1	1307.2
10°	1307.2	1311.6	1318.9	1322.5	1334.2	1335.7	1340.8	1342.3	1345.2	1343.0	1340.8
12.5°	1318.9	1322.5	1330.6	1337.9	1354.0	1359.1	1367.8	1372.9	1376.6	1374.4	1367.1
15°	1343.0	1342.3	1346.6	1352.5	1367.1	1376.6	1389.0	1395.6	1400.0	1396.3	1386.8
17.5°	1398.5	1388.3	1388.3	1384.6	1395.6	1397.8	1402.9	1406.6	1405.1	1394.1	1378.8
20°	1475.2	1459.9	1450.4	1441.6	1438.0	1419.7	1410.2	1397.1	1385.4	1365.6	1348.1
22.5°	1574.6	1563.7	1541.7	1522.0	1494.2	1457.0	1416.8	1382.4	1356.9	1329.8	1299.9
25°	1725.1	1700.3	1668.9	1622.1	1586.3	1520.5	1453.3	1388.3	1333.5	1291.1	1240.7
27.5°	1866.9	1814.3	1755.1	1682.0	1616.3	1528.6	1443.1	1367.8	1296.2	1228.3	1170.5
30°	1985.3	1893.9	1797.5	1695.2	1601.7	1495.7	1396.3	1310.8	1229.7	1149.4	1094.6
32.5°	2074.4	1942.9	1814.3	1683.5	1568.0	1443.8	1329.8	1238.5	1146.4	1061.7	998.1
35°	2154.8	1977.2	1809.2	1652.1	1515.4	1378.1	1255.3	1153.0	1052.2	961.6	888.5
37.5°	2212.5	1988.9	1787.2	1606.8	1448.2	1297.7	1164.7	1055.8	947.7	855.6	775.3
40°	2257.1	1983.1	1745.6	1537.4	1356.1	1199.8	1069.7	955.7	847.6	755.5	671.5
42.5°	2287.0	1961.1	1682.8	1458.4	1279.4	1115.7	988.6	868.8	760.6	664.2	571.4
45°	2325.8	1952.4	1644.0	1399.3	1210.0	1044.9	909.0	792.1	679.5	578.7	490.3
47.5°	2362.3	1947.3	1612.6	1350.3	1147.2	980.6	846.1	723.4	610.1	511.5	431.1
50°	2384.2	1939.2	1579.7	1291.1	1077.0	914.8	786.2	662.0	548.0	453.8	382.1
52.5°	2390.8	1923.2	1536.6	1223.9	1016.4	858.5	724.8	600.6	491.0	406.3	339.8
55°	2385.7	1891.7	1478.2	1169.1	954.3	796.4	662.7	542.2	442.8	363.1	309.8
57.5°	2360.8	1828.9	1402.9	1099.7	883.4	718.3	586.7	476.4	388.0	324.4	283.5
60°	2305.3	1738.3	1310.8	1002.5	781.8	625.5	501.2	406.3	331.7	285.7	258.7
62.5°	2184.0	1607.5	1177.1	865.1	645.9	502.0	393.8	323.7	273.3	249.2	233.1
63°	2148.2	1562.2	1137.7	828.6	622.5	474.2	369.7	306.2	260.9	241.1	228.0
65°	1959.7	1353.2	961.6	666.4	482.2	359.5	282.0	240.4	216.3	209.0	205.3
67.5°	1606.0	1052.9	676.6	447.2	323.7	248.4	208.2	192.2	183.4	182.7	184.9
70°	1134.7	698.5	418.7	286.4	222.9	187.8	172.4	165.1	160.7	162.2	166.6
72.5°	738.0	409.9	264.5	209.7	181.2	165.1	154.2	152.0	150.5	149.1	150.5
75°	390.2	256.5	200.2	175.4	158.6	145.4	138.1	135.2	135.9	135.9	135.9
77.5°	241.9	195.1	171.0	154.9	141.8	128.6	121.3	119.1	119.8	121.3	122.0
80°	185.6	170.2	150.5	138.8	119.8	108.9	105.2	104.5	105.9	105.9	108.1
82.5°	135.9	131.5	124.2	109.6	95.0	87.7	87.0	89.9	87.0	86.2	87.7
85°	79.6	74.5	81.1	69.4	63.6	59.2	62.1	68.0	70.9	67.2	65.8
87.5°	25.6	17.5	25.6	28.5	25.6	21.9	27.8	32.9	33.6	32.1	36.5
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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 CATALOG NUMBER: LDRC-SLL-E04-E-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1223.2	1228.3	1223.2	1225.4	1224.6	1223.2	1225.4	1222.4	1221.0	1225.4	1224.6
5°	1269.2	1269.9	1263.3	1264.1	1263.3	1257.5	1257.5	1254.6	1250.9	1251.7	1250.2
7.5°	1306.5	1305.0	1299.9	1297.7	1291.1	1286.7	1283.8	1279.4	1276.5	1273.6	1272.1
10°	1335.0	1331.3	1327.6	1321.1	1314.5	1310.8	1302.8	1296.2	1294.0	1289.7	1286.7
12.5°	1359.8	1353.2	1347.4	1339.3	1331.3	1325.5	1316.0	1310.8	1307.2	1301.3	1297.0
15°	1373.7	1361.3	1350.3	1337.9	1329.1	1320.3	1309.4	1307.2	1302.1	1296.2	1288.2
17.5°	1356.9	1339.3	1318.9	1305.7	1292.6	1279.4	1268.5	1268.5	1266.3	1259.7	1245.8
20°	1322.5	1296.2	1272.1	1250.9	1237.8	1218.8	1212.2	1202.0	1194.7	1183.0	1165.4
22.5°	1266.3	1238.5	1207.1	1185.9	1163.2	1142.1	1128.9	1112.8	1107.0	1088.0	1064.6
25°	1203.4	1163.2	1129.6	1101.9	1070.4	1045.6	1027.3	1005.4	990.8	972.5	943.3
27.5°	1128.9	1087.3	1049.3	1018.6	985.7	951.3	917.7	892.2	865.9	844.7	827.9
30°	1048.5	1005.4	958.7	922.8	884.9	841.7	814.0	779.6	759.2	735.8	713.9
32.5°	943.3	905.3	850.5	808.9	762.1	728.5	705.8	673.0	648.8	629.1	616.7
35°	827.9	770.9	716.1	684.6	652.5	625.5	594.0	568.5	552.4	531.9	521.0
37.5°	702.2	635.7	588.9	561.2	528.3	515.1	495.4	480.1	465.4	451.6	442.8
40°	589.7	528.3	485.9	462.5	440.6	426.0	413.6	407.0	397.5	386.5	380.0
42.5°	496.1	447.2	405.5	383.6	366.8	365.3	357.3	352.2	348.5	342.0	331.7
45°	423.1	378.5	342.7	325.2	317.8	318.6	318.6	314.2	314.2	312.0	305.4
47.5°	374.1	333.9	307.6	295.9	293.0	293.7	291.5	290.1	290.8	290.1	286.4
50°	336.1	301.8	279.9	275.5	274.7	274.0	271.1	268.9	268.2	269.6	268.9
52.5°	297.4	268.9	256.5	255.0	255.7	255.7	255.0	254.3	255.7	257.2	255.0
55°	275.5	255.0	247.0	247.0	247.0	247.0	246.2	245.5	247.7	249.9	246.2
57.5°	255.0	240.4	237.5	237.5	237.5	236.0	236.0	236.7	239.7	244.0	239.7
60°	239.7	232.4	232.4	233.1	232.4	229.4	227.2	227.2	230.9	236.7	233.1
62.5°	225.0	221.4	222.9	222.1	220.7	217.0	214.1	214.1	218.5	224.3	225.8
63°	221.4	218.5	219.9	219.2	217.7	214.8	211.9	211.9	215.6	221.4	223.6
65°	205.3	206.1	206.8	207.5	206.8	206.1	202.4	200.9	203.9	208.2	211.2
67.5°	186.3	187.8	189.2	192.9	191.4	191.4	189.2	187.8	188.5	190.7	192.9
70°	168.8	170.2	172.4	173.9	174.6	175.4	173.9	171.7	172.4	173.2	174.6
72.5°	152.0	153.4	154.9	157.8	157.8	157.8	156.4	154.9	155.6	157.1	158.6
75°	136.6	137.4	138.8	141.0	141.8	140.3	140.3	138.8	139.6	141.8	143.2
77.5°	121.3	119.8	120.6	122.0	124.2	124.2	124.9	124.2	125.7	127.1	128.6
80°	103.8	102.3	100.8	101.6	104.5	108.1	111.8	111.8	114.0	114.7	116.9
82.5°	82.6	81.1	80.4	82.6	81.8	87.0	95.0	99.4	102.3	105.2	106.7
85°	64.3	60.6	62.1	62.1	60.6	68.7	76.0	81.8	82.6	87.0	87.7
87.5°	38.0	36.5	35.1	33.6	38.7	46.8	53.3	55.5	57.0	59.2	61.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1218.8	1224.6	1223.2	1222.4	1223.2	1222.4	1220.2	1221.0	1219.5	1220.2	1218.8
5°	1242.2	1245.1	1242.9	1239.2	1239.2	1234.1	1230.5	1227.5	1223.9	1222.4	1219.5
7.5°	1264.8	1262.6	1259.7	1253.1	1249.5	1242.9	1237.8	1231.9	1228.3	1223.9	1218.8
10°	1278.7	1274.3	1268.5	1260.4	1250.2	1244.3	1237.0	1228.3	1223.9	1221.7	1216.6
12.5°	1285.3	1273.6	1264.1	1249.5	1234.8	1223.9	1215.9	1207.1	1204.9	1202.0	1198.3
15°	1269.9	1253.1	1229.0	1209.3	1190.3	1174.9	1168.4	1158.9	1156.7	1155.9	1155.2
17.5°	1218.0	1192.5	1169.1	1142.8	1126.0	1112.1	1106.2	1104.1	1100.4	1098.9	1099.7
20°	1134.7	1112.8	1089.4	1080.7	1060.9	1057.3	1048.5	1042.7	1036.1	1033.9	1030.3
22.5°	1037.6	1010.5	995.9	989.3	981.3	962.3	957.9	952.1	943.3	936.7	935.3
25°	924.3	902.4	901.7	886.3	879.7	869.5	857.8	850.5	845.4	837.4	831.5
27.5°	808.9	800.8	786.9	775.3	770.9	765.0	747.5	743.8	738.0	731.4	724.8
30°	701.5	695.6	682.5	671.5	664.9	653.2	636.4	637.9	626.2	617.4	611.6
32.5°	597.0	592.6	580.2	577.2	556.0	550.2	532.7	519.5	507.8	499.1	491.7
35°	502.7	491.0	491.7	478.6	466.9	449.4	431.1	414.3	404.8	400.4	393.8
37.5°	434.8	423.8	412.8	398.2	385.1	372.6	361.7	356.6	350.7	352.2	352.9
40°	373.4	365.3	357.3	347.1	339.0	333.9	331.0	331.0	331.7	335.4	338.3
42.5°	329.5	323.0	318.6	314.9	316.4	316.4	318.6	322.2	325.9	331.0	333.9
45°	300.3	296.7	295.2	296.7	301.0	304.7	309.8	315.7	321.5	326.6	328.8
47.5°	282.8	280.6	280.6	284.2	290.8	296.7	304.7	310.5	317.1	321.5	323.0
50°	263.8	263.0	263.0	266.0	271.8	279.1	287.2	293.0	298.8	302.5	304.0
52.5°	252.8	250.6	249.9	253.5	258.7	266.0	274.0	279.9	284.2	287.2	287.9
55°	243.3	241.1	239.7	244.0	249.9	256.5	266.0	272.5	276.9	280.6	283.5
57.5°	235.3	233.1	231.6	236.7	242.6	250.6	258.7	266.0	271.8	276.2	279.1
60°	228.7	225.8	224.3	230.2	236.0	244.0	252.1	260.1	268.2	273.3	274.7
62.5°	220.7	218.5	216.3	219.9	222.9	228.7	236.0	244.0	251.4	256.5	256.5
63°	218.5	217.7	214.8	217.7	220.7	225.8	233.1	240.4	247.7	253.5	252.8
65°	209.0	209.0	207.5	210.4	213.4	218.5	224.3	232.4	238.9	243.3	244.0
67.5°	193.6	194.4	195.8	198.7	204.6	209.7	216.3	223.6	229.4	232.4	233.8
70°	176.1	177.6	180.5	184.9	190.0	194.4	198.7	206.1	211.2	214.1	215.6
72.5°	159.3	162.9	165.1	168.8	171.7	176.1	179.7	187.1	191.4	193.6	197.3
75°	143.9	146.9	148.3	150.5	153.4	154.9	159.3	162.2	168.1	171.0	175.4
77.5°	129.3	130.8	133.0	136.6	137.4	139.6	141.0	145.4	148.3	151.3	154.9
80°	116.2	117.6	120.6	122.8	123.5	124.9	125.7	124.9	124.2	122.0	124.9
82.5°	104.5	105.9	109.6	111.8	114.0	114.0	113.3	105.2	101.6	103.0	105.2
85°	86.2	87.7	91.3	95.7	96.4	95.7	96.4	88.4	83.3	81.1	83.3
87.5°	54.1	52.6	65.0	70.9	66.5	68.0	68.7	64.3	59.9	51.1	53.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	0°
2.5°	1220.2	1215.1	1215.9	1217.3	1217.3	1219.5	1216.6	1212.9	1215.1	1211.5	1210.7	2.5°
5°	1219.5	1212.9	1212.9	1214.4	1212.9	1214.4	1212.2	1208.5	1210.7	1206.4	1205.6	5°
7.5°	1216.6	1212.9	1214.4	1215.9	1213.7	1214.4	1213.7	1208.5	1209.3	1207.1	1202.0	7.5°
10°	1215.1	1212.9	1215.9	1220.2	1220.2	1221.0	1218.8	1212.9	1209.3	1207.1	1202.7	10°
12.5°	1199.8	1202.7	1208.5	1218.8	1222.4	1228.3	1231.2	1228.3	1229.7	1226.8	1225.4	12.5°
15°	1155.9	1163.2	1172.7	1188.1	1199.0	1212.2	1228.3	1235.6	1249.5	1260.4	1267.7	15°
17.5°	1103.3	1108.4	1118.7	1136.2	1150.1	1176.4	1198.3	1223.2	1250.2	1279.4	1305.0	17.5°
20°	1038.3	1034.6	1050.7	1069.7	1093.8	1123.1	1155.2	1192.5	1237.0	1283.8	1328.4	20°
22.5°	942.6	942.6	959.4	982.0	1011.3	1044.9	1089.4	1129.6	1188.1	1256.0	1321.8	22.5°
25°	833.0	835.2	846.9	872.4	892.9	941.1	982.8	1034.6	1104.8	1179.3	1267.0	25°
27.5°	716.1	730.7	727.8	754.8	781.8	829.3	886.3	938.9	1017.1	1096.8	1196.9	27.5°
30°	610.1	607.9	607.2	639.3	666.4	709.5	756.3	822.7	901.7	1004.0	1119.4	30°
32.5°	478.6	486.6	492.5	511.5	540.7	580.9	631.3	700.7	795.7	898.7	1028.8	32.5°
35°	395.3	397.5	405.5	416.5	442.1	475.7	528.3	589.7	673.0	779.6	917.7	35°
37.5°	354.4	356.6	365.3	375.6	393.8	418.7	454.5	502.0	578.7	678.1	806.7	37.5°
40°	341.2	343.4	348.5	358.0	374.8	396.0	424.5	461.1	516.6	594.0	706.6	40°
42.5°	335.4	335.4	336.1	343.4	360.2	385.1	415.8	448.6	489.6	548.0	639.3	42.5°
45°	328.8	328.8	328.1	333.2	346.3	374.8	412.1	452.3	496.9	547.3	618.9	45°
47.5°	323.0	321.5	320.0	322.2	333.2	362.4	405.5	454.5	511.5	574.3	646.7	47.5°
50°	302.5	302.5	301.8	302.5	312.7	343.4	393.1	452.3	524.6	605.7	693.4	50°
52.5°	287.9	288.6	289.3	289.3	297.4	328.8	383.6	453.0	539.2	636.4	747.5	52.5°
55°	284.2	285.7	285.7	284.2	290.8	319.3	374.8	450.8	549.5	670.8	805.2	55°
57.5°	279.9	280.6	281.3	279.9	284.2	309.1	362.4	440.6	546.5	683.9	848.3	57.5°
60°	274.0	271.1	270.4	268.2	271.1	290.8	340.5	418.7	529.0	678.1	862.9	60°
62.5°	257.9	255.7	253.5	251.4	253.5	268.2	316.4	391.6	499.8	654.7	851.2	62.5°
63°	254.3	252.8	250.6	248.4	248.4	264.5	308.3	385.1	492.5	648.1	846.9	63°
65°	244.0	243.3	241.9	239.7	238.9	251.4	290.1	355.1	458.1	618.9	819.1	65°
67.5°	232.4	232.4	231.6	228.7	225.0	232.4	259.4	310.5	398.2	543.6	750.4	67.5°
70°	215.6	215.6	214.8	213.4	209.0	214.1	231.6	265.2	328.1	444.3	629.1	70°
72.5°	198.7	198.7	200.9	200.2	200.9	201.7	210.4	228.7	266.7	345.6	475.7	72.5°
75°	176.8	180.5	181.2	182.7	183.4	182.7	187.1	198.0	219.9	265.2	347.1	75°
77.5°	158.6	163.7	162.9	161.5	160.7	161.5	160.7	165.9	181.9	210.4	257.2	77.5°
80°	130.8	135.9	135.9	135.2	133.7	135.2	133.7	138.8	152.0	176.8	204.6	80°
82.5°	107.4	111.1	113.3	114.7	113.3	119.1	119.1	117.6	127.9	149.8	172.4	82.5°
85°	86.2	89.9	92.1	95.0	96.4	95.0	94.3	92.8	98.6	116.2	131.5	85°
87.5°	54.8	57.7	57.7	58.5	58.5	60.6	56.3	51.1	46.8	66.5	69.4	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°
1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
1208.5	1208.5	1209.3	1207.1	1209.3	1209.3	1207.1
1203.4	1202.0	1202.0	1201.2	1202.7	1202.0	1201.2
1199.0	1199.0	1196.1	1193.9	1193.2	1196.1	1194.7
1197.6	1196.1	1195.4	1193.9	1194.7	1196.9	1198.3
1223.9	1218.8	1220.2	1219.5	1220.2	1222.4	1226.8
1272.1	1272.1	1275.8	1267.7	1271.4	1275.0	1280.9
1326.2	1339.3	1345.9	1345.2	1346.6	1349.6	1356.1
1372.2	1413.9	1443.1	1450.4	1470.1	1474.5	1464.3
1392.7	1467.2	1533.0	1576.8	1625.8	1645.5	1651.3
1351.0	1458.4	1566.6	1667.4	1763.9	1819.4	1868.3
1307.9	1435.1	1579.0	1729.5	1886.6	2028.4	2134.3
1248.0	1416.1	1610.4	1813.5	2021.8	2219.1	2395.9
1182.2	1385.4	1613.3	1860.3	2117.5	2363.0	2577.1
1088.0	1313.8	1566.6	1853.0	2151.1	2458.7	2726.2
979.8	1199.8	1483.3	1810.6	2148.9	2507.7	2828.5
864.4	1089.4	1387.6	1738.3	2120.4	2523.0	2900.1
777.4	1000.3	1292.6	1669.6	2078.1	2512.8	2934.4
732.9	923.6	1215.1	1602.4	2030.6	2488.0	2949.0
741.6	903.1	1169.1	1546.9	1988.2	2460.9	2945.4
790.6	933.8	1168.4	1526.4	1961.1	2436.1	2935.1
864.4	1003.2	1210.7	1550.5	1975.8	2433.9	2934.4
947.7	1100.4	1313.0	1615.5	2037.9	2473.4	2951.9
1028.1	1218.8	1444.6	1760.9	2155.5	2572.0	3022.8
1075.6	1326.9	1613.3	1966.3	2336.7	2745.2	3178.5
1086.5	1391.9	1763.1	2167.9	2585.1	2995.8	3421.0
1085.8	1398.5	1788.7	2209.6	2635.6	3053.5	3483.2
1069.0	1411.7	1857.4	2346.9	2838.0	3301.2	3742.5
1016.4	1388.3	1895.4	2474.8	3038.9	3574.5	4132.7
895.8	1281.6	1850.8	2516.5	3158.7	3755.7	4392.8
701.5	1057.3	1598.0	2300.2	2996.5	3593.5	4399.4
493.2	747.5	1229.7	1888.8	2449.2	3036.7	3929.6
343.4	484.4	798.6	1270.7	1767.5	2215.4	2921.3
251.4	322.2	478.6	759.9	1072.6	1384.6	1812.8
193.6	232.4	306.2	458.9	605.7	775.3	1093.1
135.9	153.4	189.2	283.5	406.3	554.6	800.8
59.2	69.4	91.3	167.3	274.7	264.5	252.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)