

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: P145763

Luminaire Tested: **LDRL-SLL-F05-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145763  
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-F05-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9383.1 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

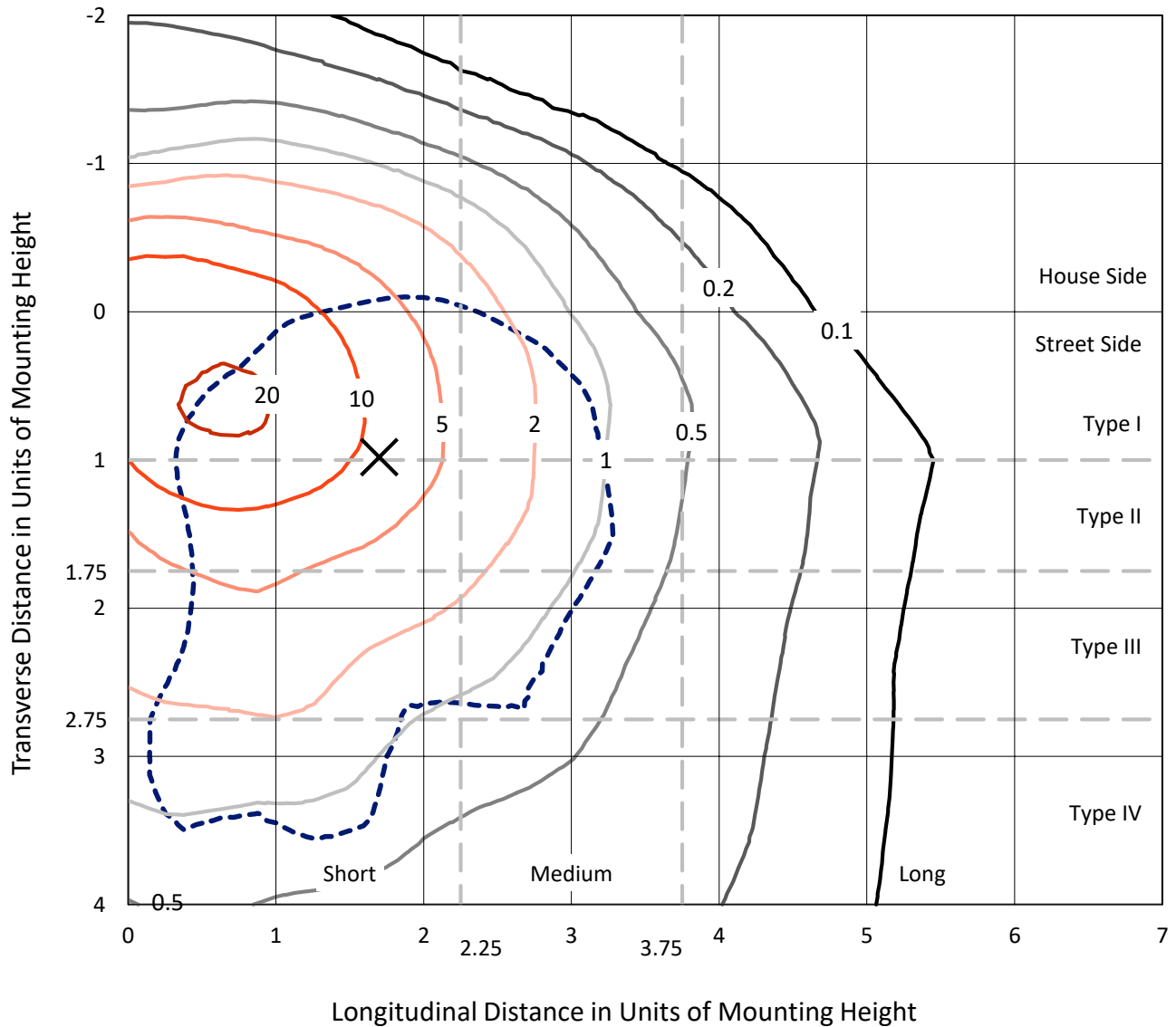
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P145763  
 CATALOG NUMBER: LDRL-SLL-F05-E-8030

### Iso-Footcandle Lines of Horizontal Illumination

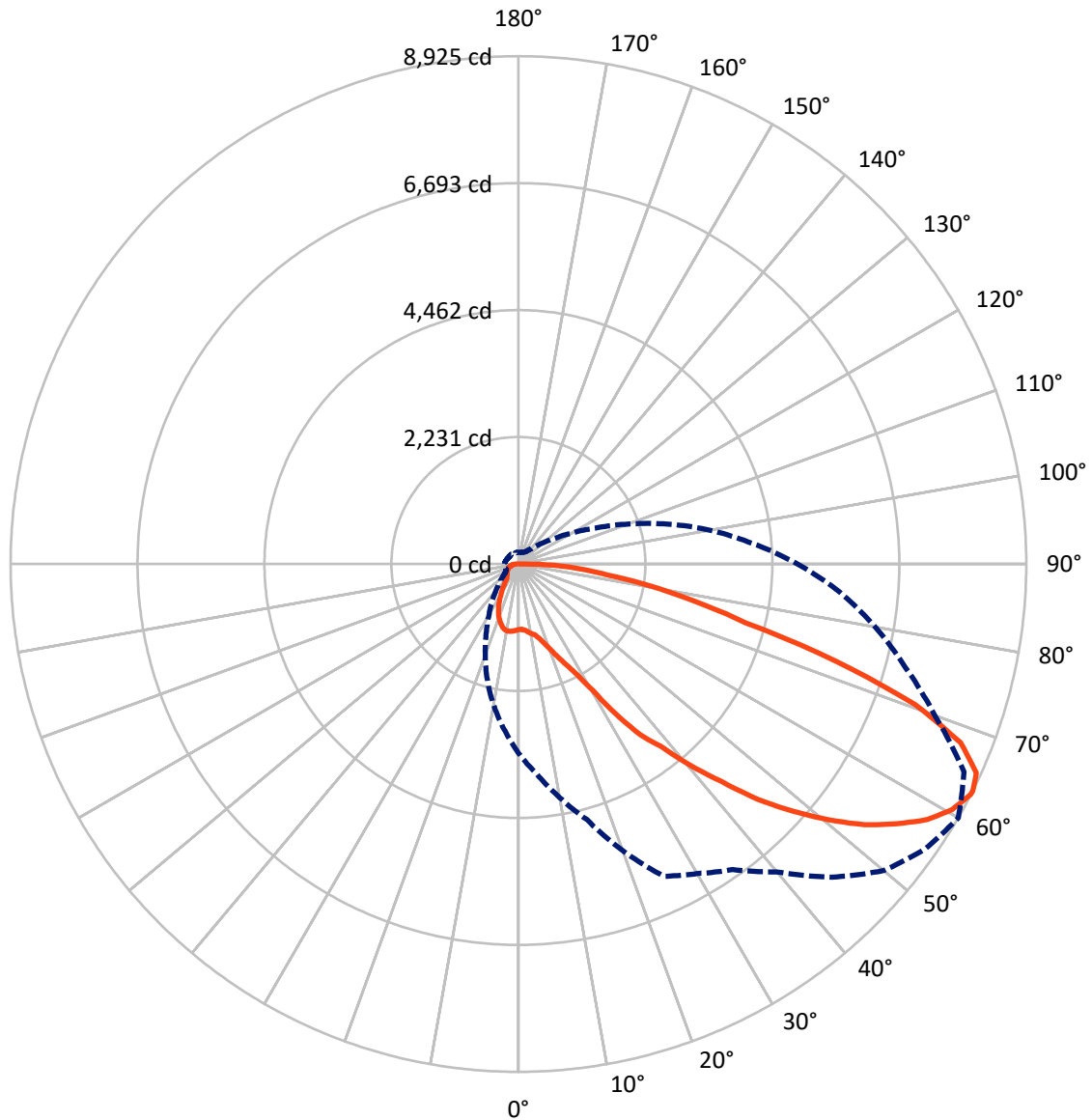
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.4 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145763  
CATALOG NUMBER: LDRL-SLL-F05-E-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P145763

CATALOG NUMBER: LDRL-SLL-F05-E-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1964.1	0.0	1964.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7418.9	0.0	7418.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9383.1	0.0	9383.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.2	1.2
10°-20°	353.2	3.8
20°-30°	624.7	6.7
30°-40°	986.2	10.5
40°-50°	1450.2	15.5
50°-60°	1910.3	20.4
60°-70°	2129.2	22.7
70°-80°	1398.9	14.9
80°-90°	417.2	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°	9383.1	100.0
0°-180°	9383.1	100.0

**Coefficient of Utilization**



REPORT NUMBER: P145763

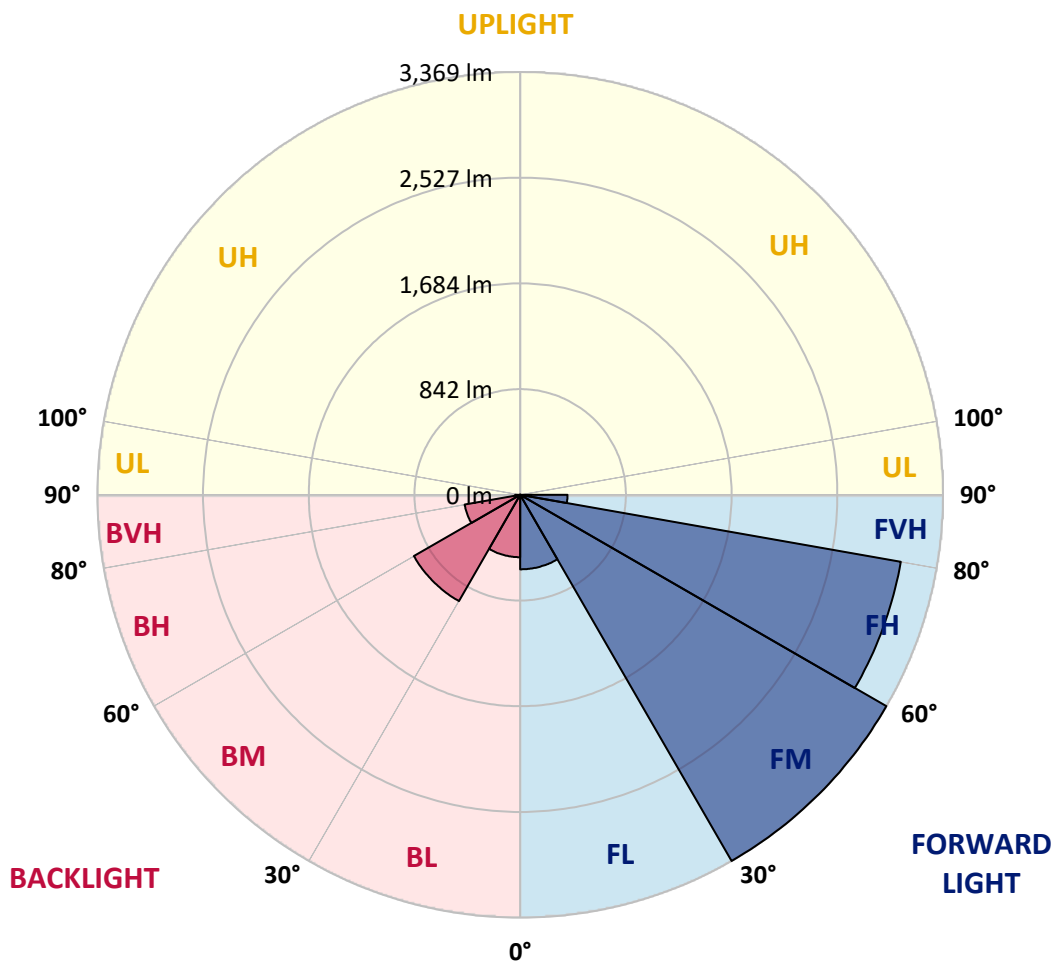
CATALOG NUMBER: LDRL-SLL-F05-E-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.9	6.3			
FM	(30°-60°)	3368.8	35.9			
FH	(60°-80°)	3079.2	32.8			G2/5000
FVH	(80°-90°)	377.0	4.0			G3/500
BL	(0°-30°)	497.2	5.3	B1/500		
BM	(30°-60°)	977.9	10.4	B1/1000		
BH	(60°-80°)	448.9	4.8	B1/500		G1/500
BVH	(80°-90°)	40.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P145763

CATALOG NUMBER: LDRL-SLL-F05-E-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1151.0	1151.7	1149.6	1148.9	1147.5	1148.2	1148.2	1146.8	1146.8	1147.5	1145.4
5°	1145.4	1146.8	1146.1	1147.5	1148.9	1151.0	1153.1	1155.2	1157.3	1160.1	1160.8
7.5°	1139.2	1143.3	1144.0	1148.2	1153.1	1158.7	1165.6	1173.3	1183.8	1186.5	1192.8
10°	1142.6	1150.3	1154.5	1162.9	1170.5	1181.0	1193.5	1201.2	1214.4	1219.3	1228.3
12.5°	1169.8	1175.4	1181.0	1190.7	1201.9	1215.1	1229.0	1240.9	1254.8	1259.7	1263.2
15°	1221.4	1227.0	1233.2	1243.0	1254.8	1270.8	1291.1	1305.7	1322.4	1334.9	1344.0
17.5°	1293.1	1293.1	1307.8	1310.6	1333.6	1357.9	1383.0	1411.6	1429.0	1439.5	1456.2
20°	1396.3	1396.3	1415.8	1424.8	1444.3	1475.7	1509.8	1541.2	1566.3	1587.2	1602.5
22.5°	1574.6	1567.0	1583.7	1581.6	1605.3	1652.0	1685.4	1702.8	1736.3	1748.8	1769.0
25°	1781.6	1808.7	1826.8	1826.8	1836.6	1884.7	1912.5	1925.8	1956.4	1947.4	1968.3
27.5°	2035.2	2108.3	2175.9	2203.8	2190.5	2243.5	2253.2	2265.8	2262.3	2240.7	2234.4
30°	2284.6	2413.5	2518.7	2582.8	2656.7	2759.1	2759.1	2775.8	2739.6	2679.6	2644.1
32.5°	2457.4	2623.2	2784.2	2917.2	3042.6	3199.4	3265.6	3357.6	3372.9	3395.9	3316.5
35°	2599.5	2832.2	3005.0	3205.0	3358.3	3517.1	3693.4	3852.9	3958.9	3941.4	3910.1
37.5°	2697.1	2996.0	3237.0	3471.8	3705.2	3887.1	4054.3	4262.6	4465.4	4505.8	4420.8
40°	2765.3	3111.6	3443.3	3731.7	4025.0	4298.2	4501.6	4725.3	5043.0	5177.4	5107.8
42.5°	2798.1	3202.2	3572.2	3939.3	4310.7	4655.6	4910.6	5217.2	5594.1	5824.0	5747.4
45°	2812.0	3257.9	3676.7	4094.7	4540.6	4966.3	5295.2	5642.9	6067.2	6436.4	6450.4
47.5°	2808.5	3287.9	3748.4	4205.5	4721.1	5216.5	5657.5	6051.8	6532.6	6920.7	7064.9
50°	2798.8	3298.3	3791.6	4272.4	4834.6	5399.7	5896.5	6365.4	6902.6	7393.8	7613.2
52.5°	2798.1	3300.4	3813.2	4309.3	4901.5	5511.9	6046.3	6600.2	7188.9	7702.4	8044.5
55°	2814.8	3313.0	3836.9	4335.1	4937.8	5575.3	6130.6	6747.2	7313.6	7896.8	8338.5
57.5°	2882.4	3371.5	3893.4	4379.0	4978.2	5625.4	6196.1	6789.7	7350.6	7977.6	8509.2
60°	3030.8	3480.9	3991.6	4459.8	5083.4	5757.1	6258.1	6729.8	7280.9	7954.6	8533.6
62.5°	3262.1	3656.5	4128.9	4608.9	5297.3	6007.3	6283.9	6592.5	7108.8	7822.3	8428.4
63°	3321.3	3703.1	4165.1	4650.0	5359.3	6054.6	6281.8	6556.3	7061.4	7783.2	8381.0
65°	3568.7	3919.1	4333.7	4846.5	5641.5	6205.1	6205.8	6343.1	6819.6	7567.9	8186.6
67.5°	3940.7	4275.2	4595.7	5105.7	5953.6	6280.4	5980.8	5877.0	6298.5	7112.3	7693.4
70°	4188.8	4601.9	4781.7	5174.0	5996.1	6189.1	5624.7	5278.5	5628.2	6308.2	6824.5
72.5°	4195.0	4666.0	4718.3	4882.7	5598.3	5752.9	5011.6	4542.7	4753.1	5323.8	5595.5
75°	3747.0	4339.3	4232.0	4171.4	4558.7	4624.9	4053.6	3858.5	4128.2	4465.4	4329.5
77.5°	2785.5	3572.9	3354.8	3097.0	3237.7	3247.5	3265.6	3633.5	3964.4	4102.4	3904.5
80°	1728.6	2624.6	2457.4	2032.4	2086.7	2247.0	2727.7	3377.8	3740.1	3839.0	3443.3
82.5°	1042.3	1930.7	1841.5	1550.9	1619.2	2018.4	2550.1	2729.8	2851.7	2842.7	2433.7
85°	763.6	1311.3	1432.5	1454.1	1696.6	1959.9	1948.8	1815.7	1741.1	1532.1	1307.8
87.5°	240.4	676.5	802.6	935.7	1024.9	969.9	953.8	824.2	590.1	498.9	548.3
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: P145763  
 CATALOG NUMBER: LDRL-SLL-F05-E-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1145.4	1148.2	1149.6	1148.9	1149.6	1149.6	1153.8	1152.4	1153.8	1153.1	1157.3
5°	1162.9	1167.0	1170.5	1170.5	1171.2	1172.6	1178.2	1178.2	1181.0	1186.5	1189.3
7.5°	1197.0	1202.6	1203.3	1204.7	1208.8	1206.7	1210.2	1211.6	1213.7	1216.5	1220.0
10°	1232.5	1240.2	1240.2	1239.5	1240.2	1234.6	1236.7	1232.5	1233.2	1237.4	1241.6
12.5°	1272.2	1276.4	1273.6	1271.5	1271.5	1261.1	1259.7	1254.1	1251.3	1252.0	1253.4
15°	1351.7	1348.2	1347.5	1344.0	1331.5	1323.8	1318.2	1300.8	1291.7	1286.9	1278.5
17.5°	1457.6	1459.7	1456.2	1452.7	1434.6	1408.8	1397.7	1378.8	1366.3	1353.8	1338.4
20°	1612.2	1598.3	1596.9	1585.8	1560.7	1524.5	1497.3	1466.6	1449.2	1431.1	1415.1
22.5°	1782.9	1768.3	1758.6	1737.0	1700.0	1654.1	1608.8	1569.7	1543.3	1530.0	1518.9
25°	1972.5	1964.1	1948.1	1893.0	1863.8	1810.8	1761.3	1723.0	1693.1	1681.9	1662.4
27.5°	2199.6	2205.9	2175.9	2124.3	2087.4	2012.9	1970.4	1904.2	1879.1	1838.7	1813.6
30°	2613.5	2573.0	2522.2	2443.5	2368.9	2268.6	2198.2	2129.2	2092.3	2038.0	1971.1
32.5°	3290.0	3136.0	2999.4	2832.2	2674.1	2545.9	2444.1	2357.1	2300.6	2210.7	2097.2
35°	3835.5	3687.1	3461.4	3218.2	3010.6	2846.2	2718.0	2635.8	2522.9	2379.4	2214.9
37.5°	4235.5	4064.8	3853.6	3667.6	3441.2	3257.9	3084.4	2913.7	2754.9	2537.5	2327.8
40°	4884.8	4653.5	4305.8	4086.4	3901.0	3653.0	3490.6	3260.7	3019.0	2738.9	2435.1
42.5°	5527.2	5220.6	4905.7	4653.5	4390.1	4121.2	3898.2	3589.6	3268.4	2905.4	2531.2
45°	6273.4	5897.9	5486.1	5133.5	4863.2	4546.9	4261.2	3882.2	3472.5	3041.9	2614.8
47.5°	6861.5	6489.4	6024.7	5669.3	5304.9	4948.2	4577.6	4110.0	3624.4	3153.4	2692.9
50°	7425.1	7066.3	6572.3	6136.1	5717.4	5286.8	4838.8	4271.7	3743.6	3240.5	2754.9
52.5°	7930.9	7611.8	7078.1	6557.0	6088.8	5592.7	5037.4	4422.9	3857.8	3330.4	2803.7
55°	8359.4	8060.5	7581.9	6933.2	6401.6	5852.6	5224.8	4560.8	3978.4	3424.5	2839.2
57.5°	8647.2	8474.4	7963.0	7264.2	6658.7	6074.1	5366.3	4699.5	4091.2	3483.0	2854.5
60°	8781.0	8758.0	8325.3	7563.1	6887.2	6246.9	5544.6	4846.5	4165.8	3509.5	2832.9
62.5°	8753.1	8917.5	8601.2	7767.9	7032.8	6354.9	5658.9	4909.9	4147.0	3445.4	2737.5
63°	8727.3	8924.5	8640.2	7788.1	7044.7	6365.4	5670.0	4902.2	4129.6	3416.8	2704.7
65°	8538.5	8842.3	8650.0	7751.9	6990.3	6335.4	5619.9	4781.7	3956.1	3237.0	2519.4
67.5°	8075.9	8380.3	8273.7	7352.7	6638.5	6013.5	5269.4	4371.3	3531.1	2855.2	2175.9
70°	7120.6	7393.1	7265.6	6455.3	5792.0	5348.8	4641.7	3635.6	2876.8	2295.0	1656.1
72.5°	5632.4	5824.0	5851.9	5208.1	4700.2	4434.0	3739.4	2742.4	2101.4	1598.3	1075.1
75°	4170.7	4126.1	4135.1	3775.6	3568.7	3456.5	2795.3	1881.2	1415.8	976.8	637.5
77.5°	3505.3	3184.8	2911.7	2812.0	2571.0	2501.3	1843.6	1154.5	826.3	584.6	363.0
80°	2850.3	2364.7	1967.6	1791.3	1697.2	1711.2	1020.0	615.2	432.7	318.4	227.1
82.5°	1948.8	1579.5	1245.8	1082.0	1065.3	1081.3	530.2	301.7	228.5	183.2	142.8
85°	1152.4	1084.8	968.5	859.8	822.1	776.2	394.4	216.0	117.7	97.5	80.1
87.5°	498.2	611.7	626.4	623.6	580.4	466.1	144.9	55.7	49.5	25.1	20.2
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: P145763

CATALOG NUMBER: LDRL-SLL-F05-E-8030

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1157.3	1158.0	1156.6	1158.0	1162.9	1162.9	1162.2	1163.5	1164.2	1168.4	1167.0
5°	1192.1	1192.8	1193.5	1198.4	1201.9	1206.0	1204.7	1206.0	1208.8	1209.5	1210.9
7.5°	1224.2	1228.3	1233.9	1236.0	1242.3	1243.7	1249.9	1250.6	1252.0	1249.2	1246.5
10°	1246.5	1250.6	1257.6	1261.1	1272.2	1273.6	1278.5	1279.9	1282.7	1280.6	1278.5
12.5°	1257.6	1261.1	1268.8	1275.7	1291.1	1295.9	1304.3	1309.2	1312.6	1310.6	1303.6
15°	1280.6	1279.9	1284.1	1289.7	1303.6	1312.6	1324.5	1330.8	1334.9	1331.5	1322.4
17.5°	1333.6	1323.8	1323.8	1320.3	1330.8	1332.9	1337.7	1341.2	1339.8	1329.4	1314.7
20°	1406.7	1392.1	1383.0	1374.7	1371.2	1353.8	1344.7	1332.2	1321.0	1302.2	1285.5
22.5°	1501.5	1491.0	1470.1	1451.3	1424.8	1389.3	1351.0	1318.2	1293.8	1268.1	1239.5
25°	1645.0	1621.3	1591.3	1546.8	1512.6	1449.9	1385.8	1323.8	1271.5	1231.1	1183.1
27.5°	1780.2	1730.0	1673.6	1603.9	1541.2	1457.6	1376.1	1304.3	1236.0	1171.2	1116.2
30°	1893.0	1805.9	1714.0	1616.4	1527.2	1426.2	1331.5	1249.9	1172.6	1096.0	1043.7
32.5°	1978.0	1852.6	1730.0	1605.3	1495.2	1376.7	1268.1	1181.0	1093.2	1012.4	951.7
35°	2054.7	1885.4	1725.1	1575.3	1445.0	1314.0	1197.0	1099.4	1003.3	916.9	847.2
37.5°	2109.7	1896.5	1704.2	1532.1	1380.9	1237.4	1110.6	1006.8	903.7	815.9	739.2
40°	2152.2	1890.9	1664.5	1465.9	1293.1	1144.0	1020.0	911.3	808.2	720.4	640.3
42.5°	2180.8	1870.0	1604.6	1390.7	1220.0	1063.9	942.7	828.4	725.3	633.3	544.8
45°	2217.7	1861.7	1567.7	1334.2	1153.8	996.3	866.7	755.3	648.0	551.8	467.5
47.5°	2252.5	1856.8	1537.7	1287.6	1093.9	935.0	806.8	689.8	581.8	487.7	411.1
50°	2273.4	1849.1	1506.3	1231.1	1027.0	872.3	749.7	631.2	522.6	432.7	364.4
52.5°	2279.7	1833.8	1465.2	1167.0	969.2	818.7	691.2	572.7	468.2	387.4	324.0
55°	2274.8	1803.8	1409.5	1114.8	909.9	759.4	631.9	517.0	422.2	346.3	295.4
57.5°	2251.2	1743.9	1337.7	1048.6	842.4	684.9	559.5	454.3	370.0	309.4	270.3
60°	2198.2	1657.5	1249.9	955.9	745.5	596.4	478.0	387.4	316.3	272.4	246.6
62.5°	2082.5	1532.8	1122.4	824.9	615.9	478.7	375.5	308.7	260.6	237.6	222.3
63°	2048.4	1489.6	1084.8	790.1	593.6	452.2	352.5	291.9	248.7	229.9	217.4
65°	1868.6	1290.4	916.9	635.4	459.8	342.8	268.9	229.2	206.2	199.3	195.8
67.5°	1531.4	1004.0	645.2	426.4	308.7	236.9	198.6	183.2	174.9	174.2	176.3
70°	1082.0	666.1	399.2	273.1	212.5	179.1	164.4	157.5	153.3	154.7	158.9
72.5°	703.7	390.9	252.2	200.0	172.8	157.5	147.0	144.9	143.5	142.1	143.5
75°	372.1	244.6	190.9	167.2	151.2	138.7	131.7	128.9	129.6	129.6	129.6
77.5°	230.6	186.0	163.0	147.7	135.2	122.6	115.7	113.6	114.3	115.7	116.4
80°	177.0	162.3	143.5	132.4	114.3	103.8	100.3	99.6	101.0	101.0	103.1
82.5°	129.6	125.4	118.4	104.5	90.6	83.6	82.9	85.7	82.9	82.2	83.6
85°	75.9	71.1	77.3	66.2	60.6	56.4	59.2	64.8	67.6	64.1	62.7
87.5°	24.4	16.7	24.4	27.2	24.4	20.9	26.5	31.4	32.0	30.7	34.8
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: P145763

CATALOG NUMBER: LDRL-SLL-F05-E-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1166.3	1171.2	1166.3	1168.4	1167.7	1166.3	1168.4	1165.6	1164.2	1168.4	1167.7
5°	1210.2	1210.9	1204.7	1205.4	1204.7	1199.1	1199.1	1196.3	1192.8	1193.5	1192.1
7.5°	1245.8	1244.4	1239.5	1237.4	1231.1	1227.0	1224.2	1220.0	1217.2	1214.4	1213.0
10°	1272.9	1269.5	1266.0	1259.7	1253.4	1249.9	1242.3	1236.0	1233.9	1229.7	1227.0
12.5°	1296.6	1290.4	1284.8	1277.1	1269.5	1263.9	1254.8	1249.9	1246.5	1240.9	1236.7
15°	1309.9	1298.0	1287.6	1275.7	1267.4	1259.0	1248.6	1246.5	1241.6	1236.0	1228.3
17.5°	1293.8	1277.1	1257.6	1245.1	1232.5	1220.0	1209.5	1209.5	1207.4	1201.2	1187.9
20°	1261.1	1236.0	1213.0	1192.8	1180.3	1162.2	1155.9	1146.1	1139.2	1128.0	1111.3
22.5°	1207.4	1181.0	1151.0	1130.8	1109.2	1089.0	1076.5	1061.1	1055.6	1037.4	1015.1
25°	1147.5	1109.2	1077.2	1050.7	1020.7	997.0	979.6	958.7	944.8	927.4	899.5
27.5°	1076.5	1036.7	1000.5	971.2	939.9	907.1	875.1	850.7	825.6	805.4	789.4
30°	999.8	958.7	914.1	880.0	843.7	802.6	776.2	743.4	723.9	701.6	680.7
32.5°	899.5	863.3	811.0	771.3	726.7	694.6	673.0	641.7	618.7	599.9	588.0
35°	789.4	735.1	682.8	652.8	622.2	596.4	566.4	542.1	526.7	507.2	496.8
37.5°	669.6	606.2	561.6	535.1	503.7	491.2	472.4	457.8	443.8	430.6	422.2
40°	562.3	503.7	463.3	441.0	420.1	406.2	394.4	388.1	379.0	368.6	362.3
42.5°	473.1	426.4	386.7	365.8	349.8	348.4	340.7	335.8	332.3	326.1	316.3
45°	403.4	360.9	326.8	310.0	303.1	303.8	303.8	299.6	299.6	297.5	291.2
47.5°	356.7	318.4	293.3	282.2	279.4	280.1	278.0	276.6	277.3	276.6	273.1
50°	320.5	287.8	266.8	262.7	262.0	261.3	258.5	256.4	255.7	257.1	256.4
52.5°	283.6	256.4	244.6	243.2	243.9	243.9	243.2	242.5	243.9	245.3	243.2
55°	262.7	243.2	235.5	235.5	235.5	235.5	234.8	234.1	236.2	238.3	234.8
57.5°	243.2	229.2	226.4	226.4	226.4	225.0	225.0	225.7	228.5	232.7	228.5
60°	228.5	221.6	221.6	222.3	221.6	218.8	216.7	216.7	220.2	225.7	222.3
62.5°	214.6	211.1	212.5	211.8	210.4	206.9	204.1	204.1	208.3	213.9	215.3
63°	211.1	208.3	209.7	209.0	207.6	204.8	202.1	202.1	205.5	211.1	213.2
65°	195.8	196.5	197.2	197.9	197.2	196.5	193.0	191.6	194.4	198.6	201.4
67.5°	177.7	179.1	180.5	183.9	182.5	182.5	180.5	179.1	179.8	181.8	183.9
70°	160.9	162.3	164.4	165.8	166.5	167.2	165.8	163.7	164.4	165.1	166.5
72.5°	144.9	146.3	147.7	150.5	150.5	150.5	149.1	147.7	148.4	149.8	151.2
75°	130.3	131.0	132.4	134.5	135.2	133.8	133.8	132.4	133.1	135.2	136.6
77.5°	115.7	114.3	115.0	116.4	118.4	118.4	119.1	118.4	119.8	121.2	122.6
80°	98.9	97.5	96.1	96.8	99.6	103.1	106.6	106.6	108.7	109.4	111.5
82.5°	78.7	77.3	76.6	78.7	78.0	82.9	90.6	94.8	97.5	100.3	101.7
85°	61.3	57.8	59.2	59.2	57.8	65.5	72.5	78.0	78.7	82.9	83.6
87.5°	36.2	34.8	33.4	32.0	36.9	44.6	50.9	53.0	54.3	56.4	58.5
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: P145763

CATALOG NUMBER: LDRL-SLL-F05-E-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1162.2	1167.7	1166.3	1165.6	1166.3	1165.6	1163.5	1164.2	1162.9	1163.5	1162.2
5°	1184.5	1187.2	1185.1	1181.7	1181.7	1176.8	1173.3	1170.5	1167.0	1165.6	1162.9
7.5°	1206.0	1204.0	1201.2	1194.9	1191.4	1185.1	1180.3	1174.7	1171.2	1167.0	1162.2
10°	1219.3	1215.1	1209.5	1201.9	1192.1	1186.5	1179.6	1171.2	1167.0	1164.9	1160.1
12.5°	1225.6	1214.4	1205.4	1191.4	1177.5	1167.0	1159.4	1151.0	1148.9	1146.1	1142.6
15°	1210.9	1194.9	1171.9	1153.1	1135.0	1120.4	1114.1	1105.0	1102.9	1102.2	1101.5
17.5°	1161.5	1137.1	1114.8	1089.7	1073.7	1060.4	1054.9	1052.8	1049.3	1047.9	1048.6
20°	1082.0	1061.1	1038.8	1030.5	1011.7	1008.2	999.8	994.2	988.0	985.9	982.4
22.5°	989.4	963.6	949.7	943.4	935.7	917.6	913.4	907.8	899.5	893.2	891.8
25°	881.4	860.5	859.8	845.1	838.9	829.1	818.0	811.0	806.1	798.5	792.9
27.5°	771.3	763.6	750.4	739.2	735.1	729.5	712.8	709.3	703.7	697.4	691.2
30°	668.9	663.3	650.8	640.3	634.0	622.9	606.9	608.3	597.1	588.7	583.2
32.5°	569.2	565.1	553.2	550.4	530.2	524.6	507.9	495.4	484.2	475.9	468.9
35°	479.4	468.2	468.9	456.4	445.2	428.5	411.1	395.0	386.0	381.8	375.5
37.5°	414.6	404.1	393.7	379.7	367.2	355.3	344.9	340.0	334.4	335.8	336.5
40°	356.0	348.4	340.7	330.9	323.3	318.4	315.6	315.6	316.3	319.8	322.6
42.5°	314.2	308.0	303.8	300.3	301.7	301.7	303.8	307.3	310.7	315.6	318.4
45°	286.4	282.9	281.5	282.9	287.1	290.5	295.4	301.0	306.6	311.4	313.5
47.5°	269.6	267.5	267.5	271.0	277.3	282.9	290.5	296.1	302.4	306.6	308.0
50°	251.5	250.8	250.8	253.6	259.2	266.2	273.8	279.4	285.0	288.4	289.8
52.5°	241.1	239.0	238.3	241.8	246.6	253.6	261.3	266.8	271.0	273.8	274.5
55°	232.0	229.9	228.5	232.7	238.3	244.6	253.6	259.9	264.1	267.5	270.3
57.5°	224.3	222.3	220.9	225.7	231.3	239.0	246.6	253.6	259.2	263.4	266.2
60°	218.1	215.3	213.9	219.5	225.0	232.7	240.4	248.0	255.7	260.6	262.0
62.5°	210.4	208.3	206.2	209.7	212.5	218.1	225.0	232.7	239.7	244.6	244.6
63°	208.3	207.6	204.8	207.6	210.4	215.3	222.3	229.2	236.2	241.8	241.1
65°	199.3	199.3	197.9	200.7	203.4	208.3	213.9	221.6	227.8	232.0	232.7
67.5°	184.6	185.3	186.7	189.5	195.1	200.0	206.2	213.2	218.8	221.6	223.0
70°	167.9	169.3	172.1	176.3	181.2	185.3	189.5	196.5	201.4	204.1	205.5
72.5°	151.9	155.4	157.5	160.9	163.7	167.9	171.4	178.4	182.5	184.6	188.1
75°	137.3	140.0	141.4	143.5	146.3	147.7	151.9	154.7	160.2	163.0	167.2
77.5°	123.3	124.7	126.8	130.3	131.0	133.1	134.5	138.7	141.4	144.2	147.7
80°	110.8	112.2	115.0	117.1	117.7	119.1	119.8	119.1	118.4	116.4	119.1
82.5°	99.6	101.0	104.5	106.6	108.7	108.7	108.0	100.3	96.8	98.2	100.3
85°	82.2	83.6	87.1	91.3	92.0	91.3	92.0	84.3	79.4	77.3	79.4
87.5°	51.6	50.2	62.0	67.6	63.4	64.8	65.5	61.3	57.1	48.8	50.9
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: P145763  
 CATALOG NUMBER: LDRL-SLL-F05-E-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	0°
2.5°	1163.5	1158.7	1159.4	1160.8	1160.8	1162.9	1160.1	1156.6	1158.7	1155.2	1154.5	2.5°
5°	1162.9	1156.6	1156.6	1158.0	1156.6	1158.0	1155.9	1152.4	1154.5	1150.3	1149.6	5°
7.5°	1160.1	1156.6	1158.0	1159.4	1157.3	1158.0	1157.3	1152.4	1153.1	1151.0	1146.1	7.5°
10°	1158.7	1156.6	1159.4	1163.5	1163.5	1164.2	1162.2	1156.6	1153.1	1151.0	1146.8	10°
12.5°	1144.0	1146.8	1152.4	1162.2	1165.6	1171.2	1174.0	1171.2	1172.6	1169.8	1168.4	12.5°
15°	1102.2	1109.2	1118.3	1132.9	1143.3	1155.9	1171.2	1178.2	1191.4	1201.9	1208.8	15°
17.5°	1052.1	1056.9	1066.7	1083.4	1096.7	1121.7	1142.6	1166.3	1192.1	1220.0	1244.4	17.5°
20°	990.1	986.6	1001.9	1020.0	1043.0	1070.9	1101.5	1137.1	1179.6	1224.2	1266.7	20°
22.5°	898.8	898.8	914.8	936.4	964.3	996.3	1038.8	1077.2	1132.9	1197.7	1260.4	22.5°
25°	794.3	796.4	807.5	831.9	851.4	897.4	937.1	986.6	1053.5	1124.5	1208.1	25°
27.5°	682.8	696.7	693.9	719.7	745.5	790.8	845.1	895.3	969.9	1045.8	1141.3	27.5°
30°	581.8	579.7	579.0	609.6	635.4	676.5	721.1	784.5	859.8	957.3	1067.4	30°
32.5°	456.4	464.0	469.6	487.7	515.6	553.9	602.0	668.2	758.7	857.0	981.0	32.5°
35°	376.9	379.0	386.7	397.1	421.5	453.6	503.7	562.3	641.7	743.4	875.1	35°
37.5°	337.9	340.0	348.4	358.1	375.5	399.2	433.4	478.7	551.8	646.6	769.2	37.5°
40°	325.4	327.5	332.3	341.4	357.4	377.6	404.8	439.6	492.6	566.4	673.7	40°
42.5°	319.8	319.8	320.5	327.5	343.5	367.2	396.4	427.8	466.8	522.6	609.6	42.5°
45°	313.5	313.5	312.8	317.7	330.3	357.4	393.0	431.3	473.8	521.9	590.1	45°
47.5°	308.0	306.6	305.2	307.3	317.7	345.6	386.7	433.4	487.7	547.6	616.6	47.5°
50°	288.4	288.4	287.8	288.4	298.2	327.5	374.8	431.3	500.3	577.6	661.2	50°
52.5°	274.5	275.2	275.9	275.9	283.6	313.5	365.8	432.0	514.2	606.9	712.8	52.5°
55°	271.0	272.4	272.4	271.0	277.3	304.5	357.4	429.9	523.9	639.6	767.8	55°
57.5°	266.8	267.5	268.2	266.8	271.0	294.7	345.6	420.1	521.2	652.1	808.9	57.5°
60°	261.3	258.5	257.8	255.7	258.5	277.3	324.7	399.2	504.4	646.6	822.8	60°
62.5°	245.9	243.9	241.8	239.7	241.8	255.7	301.7	373.5	476.6	624.3	811.7	62.5°
63°	242.5	241.1	239.0	236.9	236.9	252.2	294.0	367.2	469.6	618.0	807.5	63°
65°	232.7	232.0	230.6	228.5	227.8	239.7	276.6	338.6	436.9	590.1	781.0	65°
67.5°	221.6	221.6	220.9	218.1	214.6	221.6	247.3	296.1	379.7	518.4	715.5	67.5°
70°	205.5	205.5	204.8	203.4	199.3	204.1	220.9	252.9	312.8	423.6	599.9	70°
72.5°	189.5	189.5	191.6	190.9	191.6	192.3	200.7	218.1	254.3	329.6	453.6	72.5°
75°	168.6	172.1	172.8	174.2	174.9	174.2	178.4	188.8	209.7	252.9	330.9	75°
77.5°	151.2	156.1	155.4	154.0	153.3	154.0	153.3	158.2	173.5	200.7	245.3	77.5°
80°	124.7	129.6	129.6	128.9	127.5	128.9	127.5	132.4	144.9	168.6	195.1	80°
82.5°	102.4	105.9	108.0	109.4	108.0	113.6	113.6	112.2	121.9	142.8	164.4	82.5°
85°	82.2	85.7	87.8	90.6	92.0	90.6	89.9	88.5	94.1	110.8	125.4	85°
87.5°	52.3	55.0	55.0	55.7	55.7	57.8	53.6	48.8	44.6	63.4	66.2	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: P145763

NUMBER: LDRL-SLL-F05-E-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
1152.4	1152.4	1153.1	1151.0	1153.1	1153.1	1151.0
1147.5	1146.1	1146.1	1145.4	1146.8	1146.1	1145.4
1143.3	1143.3	1140.6	1138.5	1137.8	1140.6	1139.2
1141.9	1140.6	1139.9	1138.5	1139.2	1141.3	1142.6
1167.0	1162.2	1163.5	1162.9	1163.5	1165.6	1169.8
1213.0	1213.0	1216.5	1208.8	1212.3	1215.8	1221.4
1264.6	1277.1	1283.4	1282.7	1284.1	1286.9	1293.1
1308.5	1348.2	1376.1	1383.0	1401.8	1406.0	1396.3
1328.0	1399.0	1461.8	1503.6	1550.2	1569.0	1574.6
1288.3	1390.7	1493.8	1590.0	1681.9	1734.9	1781.6
1247.2	1368.4	1505.6	1649.2	1799.0	1934.1	2035.2
1190.0	1350.3	1535.6	1729.3	1927.9	2116.0	2284.6
1127.3	1321.0	1538.4	1773.9	2019.1	2253.2	2457.4
1037.4	1252.7	1493.8	1766.9	2051.2	2344.5	2599.5
934.3	1144.0	1414.4	1726.5	2049.1	2391.2	2697.1
824.2	1038.8	1323.1	1657.5	2021.9	2405.8	2765.3
741.3	953.8	1232.5	1592.0	1981.5	2396.1	2798.1
698.8	880.7	1158.7	1527.9	1936.2	2372.4	2812.0
707.2	861.2	1114.8	1475.0	1895.8	2346.6	2808.5
753.9	890.4	1114.1	1455.5	1870.0	2322.9	2798.8
824.2	956.6	1154.5	1478.5	1884.0	2320.8	2798.1
903.7	1049.3	1252.0	1540.5	1943.2	2358.4	2814.8
980.3	1162.2	1377.4	1679.1	2055.4	2452.5	2882.4
1025.6	1265.3	1538.4	1874.9	2228.2	2617.6	3030.8
1036.0	1327.3	1681.2	2067.2	2465.1	2856.6	3262.1
1035.3	1333.6	1705.6	2106.9	2513.1	2911.7	3321.3
1019.3	1346.1	1771.1	2237.9	2706.1	3147.9	3568.7
969.2	1323.8	1807.3	2359.8	2897.7	3408.4	3940.7
854.2	1222.1	1764.8	2399.6	3012.0	3581.2	4188.8
668.9	1008.2	1523.8	2193.3	2857.3	3426.5	4195.0
470.3	712.8	1172.6	1801.1	2335.5	2895.6	3747.0
327.5	461.9	761.5	1211.6	1685.4	2112.5	2785.5
239.7	307.3	456.4	724.6	1022.8	1320.3	1728.6
184.6	221.6	291.9	437.5	577.6	739.2	1042.3
129.6	146.3	180.5	270.3	387.4	528.8	763.6
56.4	66.2	87.1	159.6	262.0	252.2	240.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)