

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: P146051

Luminaire Tested: **LDRL-SLR-E04-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146051  
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-E04-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11055 lumens  
Efficiency: N/A  
Efficacy: 113.7 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

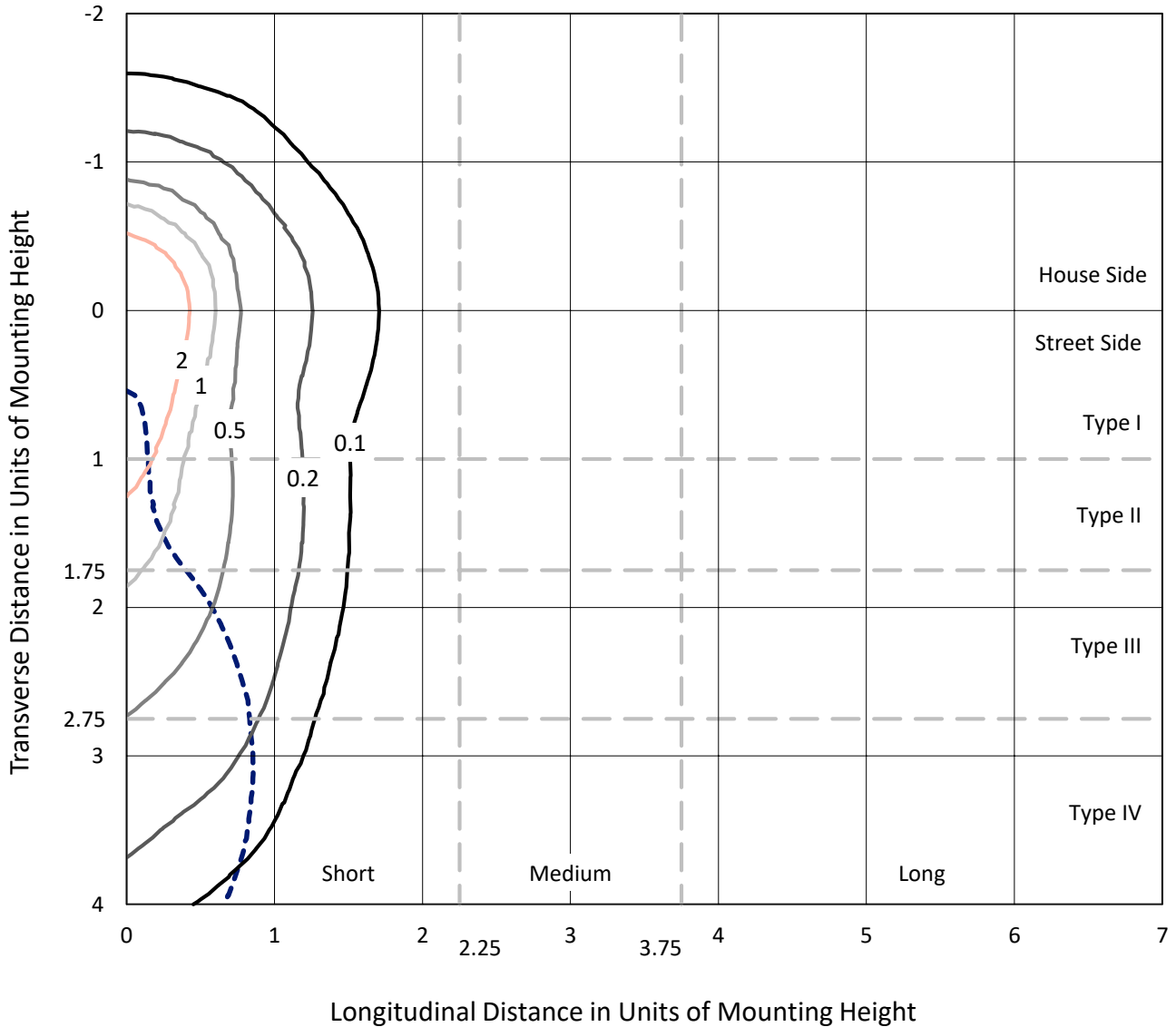
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

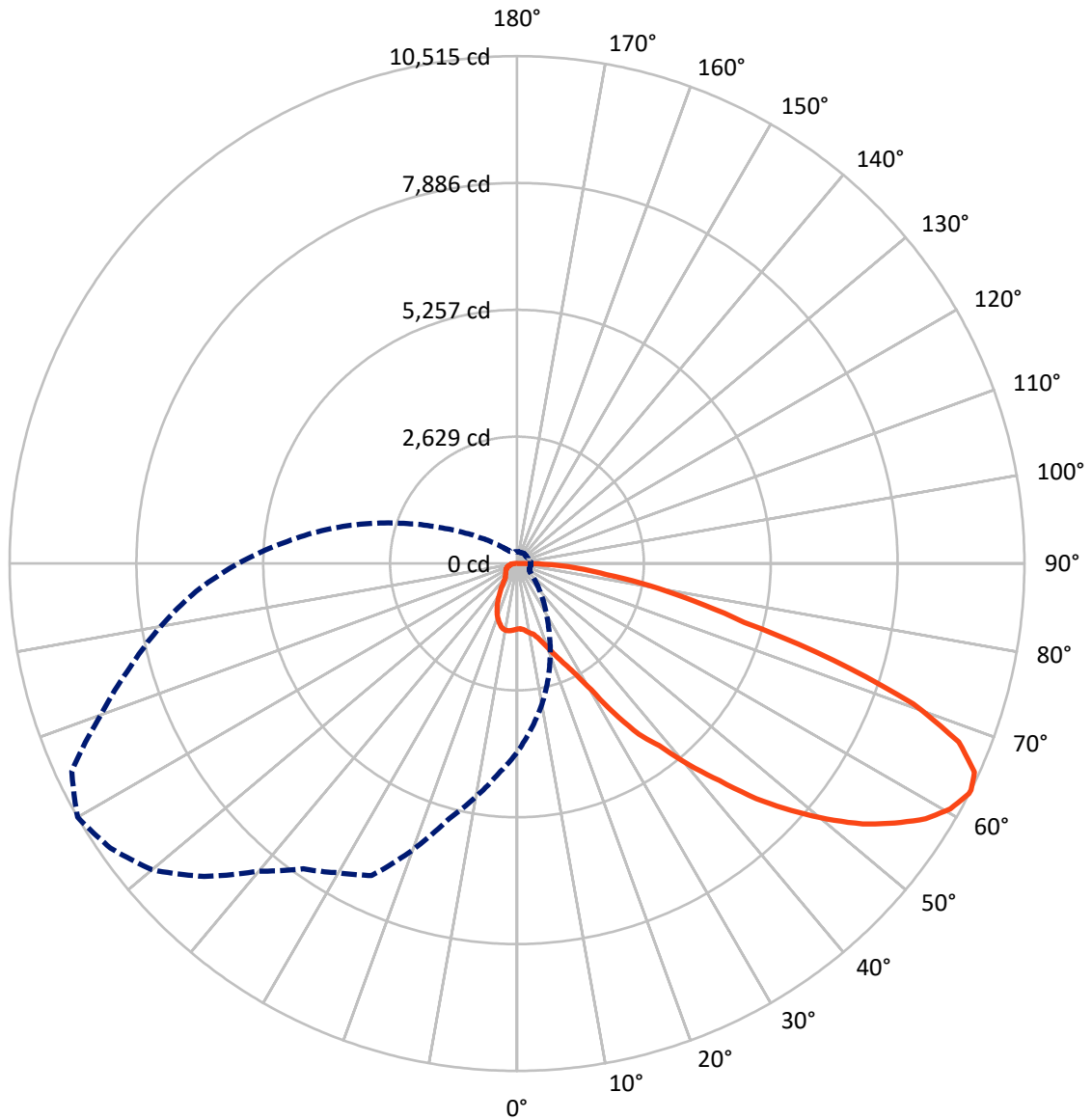
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2314.1	0.0	2314.1
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	8740.9	0.0	8740.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	11055.0	0.0	11055.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	1.2
10°-20°	416.2	3.8
20°-30°	736.0	6.7
30°-40°	1161.9	10.5
40°-50°	1708.6	15.5
50°-60°	2250.7	20.4
60°-70°	2508.6	22.7
70°-80°	1648.2	14.9
80°-90°	491.5	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°	11055.0	100.0
0°-180°	11055.0	100.0

**Coefficient of Utilization**



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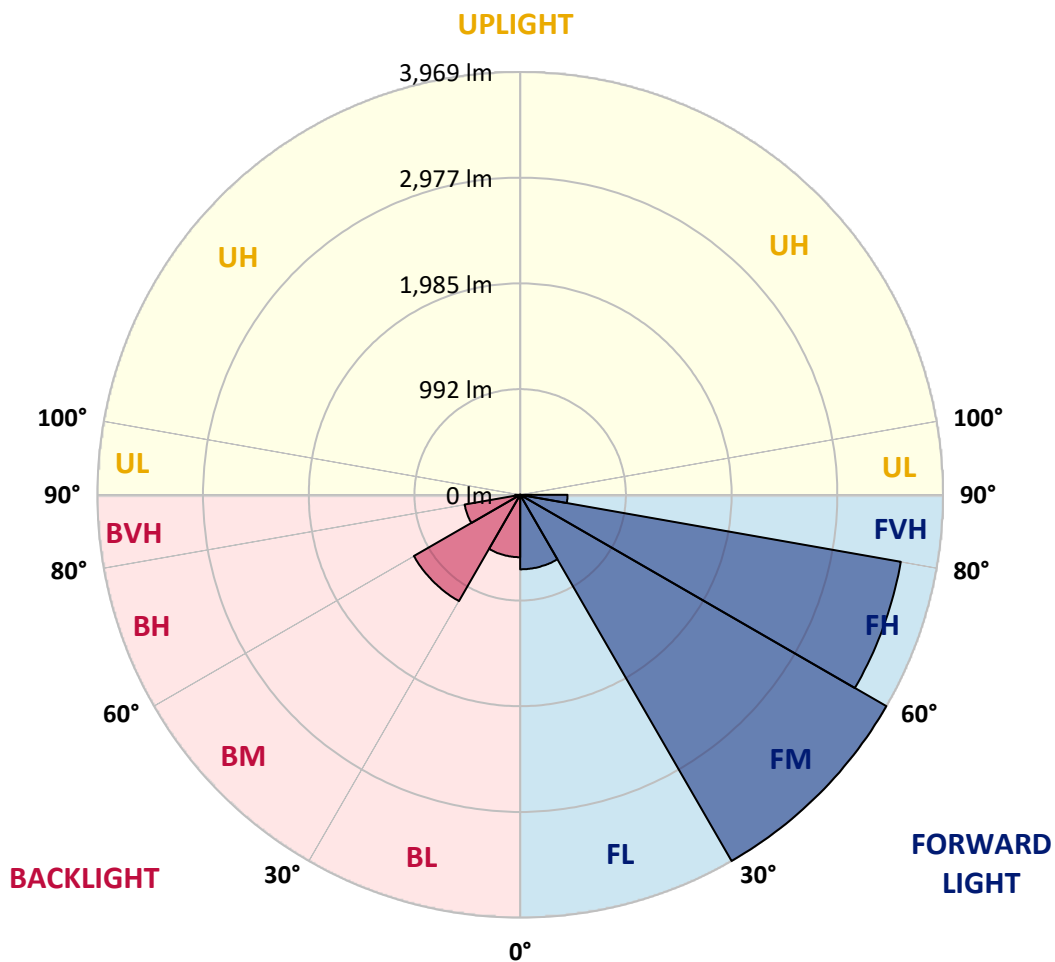
CATALOG NUMBER: LDRL-SLR-E04-E-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	699.7	6.3			
FM	(30°-60°)	3969.0	35.9			
FH	(60°-80°)	3627.9	32.8			G2/5000
FVH	(80°-90°)	444.2	4.0			G3/500
BL	(0°-30°)	585.8	5.3	B2/1000		
BM	(30°-60°)	1152.1	10.4	B2/2500		
BH	(60°-80°)	528.9	4.8	B2/1000		G2/1000
BVH	(80°-90°)	47.3	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°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1356.1	1358.6	1358.6	1356.1	1358.6	1357.7	1357.7	1360.2	1361.0	1365.1	1362.7
5°	1349.5	1350.4	1351.2	1349.5	1350.4	1350.4	1352.0	1354.5	1355.3	1360.2	1357.7
7.5°	1342.1	1343.8	1340.5	1341.3	1343.8	1347.1	1347.1	1350.4	1356.1	1358.6	1357.7
10°	1346.3	1344.6	1342.1	1341.3	1343.0	1343.8	1345.4	1351.2	1356.1	1358.6	1362.7
12.5°	1378.3	1373.3	1370.9	1370.1	1370.9	1369.2	1375.0	1376.6	1378.3	1381.5	1379.9
15°	1439.0	1432.4	1428.3	1424.2	1433.3	1429.2	1429.2	1424.2	1416.0	1403.7	1388.1
17.5°	1523.6	1516.2	1512.9	1511.2	1512.1	1504.7	1489.9	1466.1	1437.4	1404.5	1374.2
20°	1645.1	1656.5	1651.6	1629.5	1621.2	1588.4	1541.6	1492.4	1442.3	1389.8	1339.7
22.5°	1855.2	1848.6	1826.5	1771.5	1722.2	1648.3	1564.6	1485.0	1411.1	1334.8	1269.1
25°	2099.0	2044.0	1981.6	1873.3	1760.0	1638.5	1517.8	1423.4	1324.9	1241.2	1162.4
27.5°	2397.8	2278.8	2119.5	1943.0	1773.9	1612.2	1469.4	1344.6	1232.1	1142.7	1054.8
30°	2691.7	2493.0	2271.4	2037.4	1809.2	1590.9	1402.1	1257.6	1127.9	1013.0	924.3
32.5°	2895.3	2654.7	2378.9	2090.0	1812.5	1556.4	1328.2	1155.8	1009.7	893.9	787.2
35°	3062.7	2762.3	2416.7	2081.8	1760.0	1476.0	1222.3	1031.0	875.9	756.0	662.5
37.5°	3177.6	2817.3	2414.2	2034.2	1666.4	1347.9	1100.8	906.3	761.8	650.1	563.9
40°	3258.1	2834.5	2382.2	1952.9	1558.9	1223.9	971.1	793.8	667.4	580.4	518.0
42.5°	3296.7	2823.0	2334.6	1875.7	1452.1	1123.8	873.4	718.3	615.7	550.0	504.0
45°	3313.1	2795.1	2281.2	1800.2	1365.1	1037.6	823.3	695.3	614.8	558.2	508.1
47.5°	3309.0	2764.7	2233.6	1737.8	1313.4	1014.6	833.2	726.5	645.2	574.6	510.6
50°	3297.5	2736.8	2203.3	1714.8	1312.6	1049.1	888.2	779.0	680.5	589.4	508.1
52.5°	3296.7	2734.4	2219.7	1741.9	1360.2	1127.1	971.1	839.8	715.0	605.8	508.9
55°	3316.4	2778.7	2289.4	1815.0	1475.1	1236.3	1064.7	904.6	753.6	617.3	506.5
57.5°	3396.0	2889.5	2421.6	1978.3	1622.9	1369.2	1155.0	953.0	768.3	614.0	495.0
60°	3570.8	3084.1	2625.2	2209.0	1812.5	1490.7	1208.3	969.5	761.8	594.3	470.4
62.5°	3843.4	3365.6	2904.3	2435.6	1980.8	1563.8	1220.7	956.3	735.5	561.5	440.0
63°	3913.2	3430.5	2960.9	2482.4	2009.5	1571.2	1219.8	951.4	728.1	553.3	432.6
65°	4204.6	3708.8	3188.3	2636.7	2086.7	1585.9	1201.0	920.2	695.3	514.7	398.9
67.5°	4642.9	4015.8	3414.1	2780.3	2129.4	1559.7	1141.9	843.0	610.7	447.4	348.9
70°	4935.2	4219.3	3548.7	2827.1	2079.3	1439.8	1006.4	706.8	499.1	368.6	298.0
72.5°	4942.5	4037.1	3366.4	2584.1	1795.3	1187.8	788.0	534.4	388.3	299.6	256.9
75°	4414.7	3411.6	2751.6	2122.0	1381.5	839.8	554.1	389.9	298.0	247.1	222.5
77.5°	3281.9	2488.9	1985.7	1427.5	897.2	544.2	385.8	289.0	236.4	204.4	186.3
80°	2036.6	1555.6	1205.1	853.7	537.7	362.0	282.4	229.8	198.7	170.7	156.0
82.5°	1228.0	871.0	680.5	515.5	344.0	261.0	217.5	193.7	168.3	143.7	132.2
85°	899.7	623.1	456.4	318.5	212.6	172.4	152.7	147.8	130.5	110.8	104.3
87.5°	283.2	297.2	308.7	188.0	102.6	78.0	66.5	78.0	74.7	52.5	57.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1366.8	1370.1	1367.6	1367.6	1366.0	1365.1	1370.9	1369.2	1370.9	1370.1	1371.7
5°	1361.8	1364.3	1362.7	1364.3	1362.7	1362.7	1370.1	1370.1	1373.3	1375.0	1379.1
7.5°	1363.5	1364.3	1363.5	1366.0	1364.3	1362.7	1366.8	1369.2	1375.0	1379.9	1384.0
10°	1369.2	1371.7	1370.9	1370.9	1366.0	1362.7	1365.1	1366.8	1372.5	1375.0	1379.9
12.5°	1383.2	1379.9	1373.3	1369.2	1357.7	1351.2	1347.9	1346.3	1350.4	1353.6	1356.1
15°	1379.9	1361.8	1347.1	1334.8	1317.5	1306.8	1298.6	1297.8	1298.6	1299.5	1301.9
17.5°	1346.3	1321.6	1292.1	1276.5	1256.8	1245.3	1239.5	1235.4	1234.6	1236.3	1240.4
20°	1297.8	1261.7	1228.9	1201.8	1180.4	1162.4	1166.5	1157.4	1161.6	1164.0	1171.4
22.5°	1223.9	1173.9	1136.1	1103.3	1077.8	1058.9	1058.9	1050.7	1052.4	1059.8	1069.6
25°	1104.1	1057.3	1003.1	980.1	951.4	938.3	935.8	934.2	940.7	949.8	955.5
27.5°	995.7	931.7	878.3	848.0	817.6	820.9	804.5	814.3	821.7	829.1	835.7
30°	849.6	797.1	748.6	718.3	682.2	683.0	685.4	687.1	693.6	703.5	716.6
32.5°	709.2	652.6	607.5	574.6	553.3	546.7	537.7	552.5	560.7	570.5	583.6
35°	593.5	534.4	496.6	467.9	455.6	446.6	444.1	442.5	449.8	454.8	465.4
37.5°	510.6	470.4	442.5	421.9	410.4	400.6	398.1	396.5	395.7	394.0	400.6
40°	476.9	444.9	421.1	402.2	391.6	385.8	383.4	380.1	376.8	372.7	371.9
42.5°	467.1	432.6	404.7	385.8	377.6	376.8	376.8	375.1	371.9	366.1	362.0
45°	463.0	421.1	389.1	374.3	368.6	369.4	369.4	369.4	366.9	361.2	354.6
47.5°	455.6	407.2	374.3	362.0	359.5	361.2	362.8	362.8	361.2	356.3	348.9
50°	441.6	385.8	351.3	339.8	339.0	339.8	339.8	341.5	339.8	335.7	329.2
52.5°	431.0	369.4	334.1	325.1	325.1	324.2	323.4	323.4	322.6	319.3	314.4
55°	421.1	358.7	326.7	319.3	321.0	321.0	319.3	318.5	315.2	311.1	306.2
57.5°	407.2	347.2	319.3	314.4	316.0	315.2	314.4	313.6	310.3	305.4	298.8
60°	382.5	326.7	304.5	301.3	303.7	304.5	307.8	308.7	307.0	301.3	292.2
62.5°	355.4	301.3	284.8	282.4	284.8	287.3	289.8	288.1	288.1	282.4	274.2
63°	346.4	297.2	279.1	279.1	281.6	284.0	285.7	284.0	284.8	278.3	270.1
65°	325.9	282.4	268.4	269.3	271.7	273.4	274.2	274.2	273.4	268.4	261.0
67.5°	291.4	261.0	252.8	256.9	260.2	261.0	261.0	262.7	261.0	257.8	251.2
70°	260.2	240.5	234.8	239.7	241.3	242.2	242.2	242.2	240.5	237.2	231.5
72.5°	236.4	226.6	225.7	224.9	225.7	223.3	223.3	221.6	217.5	215.1	210.1
75°	210.1	205.2	206.0	205.2	203.6	202.8	198.7	197.0	192.1	188.8	182.2
77.5°	180.6	181.4	180.6	181.4	183.1	183.9	178.1	174.0	169.9	166.6	163.4
80°	150.2	151.9	150.2	151.9	152.7	152.7	146.9	140.4	137.1	139.6	140.4
82.5°	133.8	133.8	127.2	128.9	127.2	124.8	120.7	118.2	115.7	114.1	118.2
85°	105.9	106.7	108.4	106.7	103.4	101.0	96.9	93.6	91.1	93.6	99.3
87.5°	63.2	68.1	65.7	65.7	64.8	64.8	61.6	59.9	57.5	67.3	72.2
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°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1370.9	1373.3	1374.2	1373.3	1374.2	1375.8	1369.2	1375.8	1376.6	1371.7	1373.3
5°	1382.4	1386.5	1392.2	1392.2	1396.3	1398.8	1395.5	1404.5	1406.2	1405.4	1409.5
7.5°	1390.6	1396.3	1403.7	1407.8	1415.2	1418.5	1421.0	1429.2	1430.8	1434.1	1437.4
10°	1389.8	1398.0	1404.5	1416.0	1425.1	1431.6	1436.5	1445.6	1448.9	1453.8	1456.2
12.5°	1366.0	1375.0	1387.3	1403.7	1420.1	1430.8	1443.9	1457.1	1462.0	1468.6	1472.7
15°	1312.6	1320.0	1337.2	1358.6	1380.7	1407.8	1426.7	1447.2	1456.2	1462.8	1468.6
17.5°	1242.8	1249.4	1265.0	1283.9	1313.4	1339.7	1368.4	1399.6	1415.2	1422.6	1425.1
20°	1178.0	1187.8	1191.9	1214.1	1223.9	1250.2	1274.8	1309.3	1329.0	1342.1	1350.4
22.5°	1076.2	1081.1	1102.4	1111.5	1118.9	1135.3	1165.7	1196.0	1222.3	1243.6	1250.2
25°	963.7	976.9	988.3	995.7	1013.0	1013.8	1038.4	1059.8	1092.6	1113.1	1129.5
27.5°	839.8	859.5	866.0	871.0	884.1	899.7	908.7	930.1	948.9	972.7	1002.3
30°	715.0	733.9	747.0	754.4	766.7	781.5	788.0	802.0	826.6	852.9	875.9
32.5°	598.4	618.1	624.7	648.5	651.8	665.7	670.7	692.8	706.8	728.9	756.0
35°	484.3	504.8	524.5	537.7	552.5	551.6	564.8	585.3	597.6	620.6	638.6
37.5°	406.3	418.7	432.6	447.4	463.8	476.1	488.4	497.5	507.3	522.9	539.3
40°	371.9	375.1	380.9	389.9	401.4	410.4	419.5	426.9	434.2	446.6	457.2
42.5°	357.9	355.4	355.4	353.8	357.9	362.8	370.2	372.7	384.2	391.6	395.7
45°	348.1	342.3	338.2	333.3	331.6	333.3	337.4	343.1	350.5	353.0	353.0
47.5°	342.3	333.3	326.7	319.3	315.2	315.2	317.7	321.8	325.9	326.7	325.9
50°	322.6	313.6	305.4	298.8	295.5	295.5	296.3	302.1	302.9	301.3	302.1
52.5°	307.8	298.8	290.6	284.8	280.7	281.6	284.0	286.5	289.0	287.3	285.7
55°	298.8	288.1	280.7	274.2	269.3	270.9	273.4	276.6	280.7	278.3	275.8
57.5°	290.6	281.6	272.5	266.0	260.2	261.9	264.3	269.3	274.2	269.3	266.0
60°	283.2	274.2	265.1	258.6	252.0	253.7	256.9	261.9	266.0	259.4	255.3
62.5°	265.1	256.9	250.4	247.1	243.0	245.4	247.9	253.7	252.0	245.4	240.5
63°	261.9	253.7	247.9	244.6	241.3	244.6	245.4	251.2	248.7	242.2	238.1
65°	252.0	245.4	239.7	236.4	233.1	234.8	234.8	237.2	234.0	229.0	225.7
67.5°	243.0	235.6	229.8	223.3	220.0	218.4	217.5	216.7	214.3	211.8	211.0
70°	223.3	218.4	213.4	207.7	202.8	199.5	197.8	196.2	194.5	193.7	192.9
72.5°	201.9	197.8	192.9	189.6	185.5	183.1	179.0	178.1	176.5	174.8	174.0
75°	179.0	174.0	172.4	169.1	166.6	165.0	161.7	160.9	159.3	156.8	156.0
77.5°	158.4	156.8	154.3	153.5	149.4	146.9	145.3	144.5	142.8	141.2	139.6
80°	141.2	140.4	138.7	137.9	135.4	132.2	130.5	131.3	128.9	128.1	125.6
82.5°	127.2	128.1	128.1	125.6	123.1	119.0	117.4	119.8	118.2	114.9	111.6
85°	108.4	107.5	108.4	107.5	102.6	98.5	96.9	98.5	97.7	92.8	91.9
87.5°	77.2	76.3	74.7	79.6	73.1	59.1	60.7	69.0	66.5	64.0	62.4
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: P146051  
 CATALOG NUMBER: LDRL-SLR-E04-E-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1376.6	1374.2	1375.8	1376.6	1374.2	1379.9	1374.2	1375.0	1376.6	1371.7	1370.9
5°	1412.7	1412.7	1419.3	1420.1	1419.3	1426.7	1425.9	1426.7	1425.1	1424.2	1421.0
7.5°	1442.3	1445.6	1450.5	1457.9	1460.4	1466.1	1467.7	1468.6	1471.8	1475.1	1473.5
10°	1463.6	1472.7	1476.8	1484.2	1491.5	1495.7	1499.8	1506.3	1508.8	1511.2	1508.0
12.5°	1478.4	1489.1	1495.7	1504.7	1513.7	1520.3	1527.7	1535.9	1544.1	1546.5	1542.4
15°	1471.0	1483.3	1493.2	1503.0	1517.0	1529.3	1543.3	1558.0	1568.7	1572.8	1567.9
17.5°	1425.1	1437.4	1452.1	1466.9	1481.7	1504.7	1524.4	1549.0	1566.2	1578.6	1580.2
20°	1361.8	1369.2	1390.6	1405.4	1429.2	1456.2	1485.8	1514.5	1534.2	1556.4	1569.5
22.5°	1268.3	1283.0	1306.8	1332.3	1356.1	1391.4	1422.6	1460.4	1494.0	1524.4	1553.1
25°	1154.2	1174.7	1202.6	1237.9	1269.1	1306.8	1352.0	1393.9	1450.5	1498.1	1559.7
27.5°	1031.0	1068.8	1107.4	1144.3	1178.8	1221.5	1268.3	1315.1	1379.9	1456.2	1536.7
30°	914.5	945.7	994.1	1036.8	1077.0	1129.5	1178.0	1229.7	1291.3	1381.5	1472.7
32.5°	793.0	818.4	856.2	908.7	955.5	1017.1	1059.8	1121.3	1192.7	1288.0	1391.4
35°	667.4	702.7	733.0	769.2	804.5	866.0	930.1	998.2	1080.3	1182.1	1295.4
37.5°	556.6	578.7	593.5	630.4	661.6	714.2	788.9	871.0	961.3	1064.7	1186.2
40°	464.6	478.6	495.0	519.6	545.9	593.5	662.5	754.4	848.8	952.2	1073.7
42.5°	401.4	410.4	412.1	431.0	455.6	502.4	557.4	641.9	746.2	854.5	976.0
45°	357.9	357.9	357.1	365.3	385.0	425.2	475.3	550.8	650.1	763.4	889.8
47.5°	327.5	330.0	329.2	332.5	345.6	375.1	420.3	484.3	574.6	685.4	812.7
50°	304.5	307.8	308.7	309.5	314.4	339.0	377.6	429.3	509.8	615.7	743.7
52.5°	286.5	287.3	287.3	286.5	288.1	302.1	334.1	381.7	456.4	551.6	674.8
55°	276.6	277.5	277.5	277.5	277.5	286.5	309.5	348.1	408.0	497.5	609.1
57.5°	265.1	265.1	266.8	266.8	266.8	270.1	286.5	318.5	364.5	435.9	535.2
60°	255.3	257.8	261.0	261.9	261.0	261.0	269.3	290.6	321.0	372.7	456.4
62.5°	240.5	243.8	247.9	249.5	250.4	248.7	252.8	261.9	279.9	307.0	363.7
63°	238.1	241.3	244.6	246.3	247.1	245.4	248.7	256.1	270.9	293.1	344.0
65°	227.4	231.5	232.3	233.1	232.3	231.5	230.7	230.7	234.8	243.0	270.1
67.5°	212.6	215.1	215.1	216.7	212.6	211.0	209.3	207.7	205.2	206.0	215.9
70°	195.4	197.0	196.2	195.4	193.7	191.3	189.6	187.2	182.2	180.6	185.5
72.5°	175.7	177.3	177.3	177.3	174.0	172.4	170.7	169.1	167.5	169.1	170.7
75°	157.6	157.6	159.3	158.4	156.0	154.3	153.5	152.7	152.7	152.7	151.9
77.5°	140.4	139.6	139.6	137.1	135.4	134.6	136.3	137.1	136.3	134.6	133.8
80°	125.6	121.5	117.4	114.1	113.3	114.9	116.6	121.5	119.0	119.0	117.4
82.5°	106.7	97.7	91.9	92.8	90.3	91.1	92.8	98.5	96.9	97.7	101.0
85°	85.4	77.2	68.1	69.8	69.8	68.1	72.2	73.9	75.5	79.6	76.3
87.5°	59.9	52.5	43.5	37.8	39.4	41.0	42.7	41.0	36.1	37.8	36.9
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: P146051  
 CATALOG NUMBER: LDRL-SLR-E04-E-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
2.5°	1369.2	1370.1	1370.1	1364.3	1362.7	1364.3	1363.5	1363.5	1358.6	1359.4	1357.7
5°	1419.3	1421.0	1416.0	1411.9	1406.2	1405.4	1404.5	1401.2	1398.0	1391.4	1388.1
7.5°	1472.7	1465.3	1463.6	1456.2	1453.8	1447.2	1442.3	1437.4	1433.3	1430.0	1427.5
10°	1506.3	1500.6	1498.9	1485.8	1481.7	1473.5	1468.6	1462.8	1457.9	1453.0	1452.1
12.5°	1536.7	1526.8	1521.1	1503.0	1494.8	1485.8	1481.7	1476.8	1475.1	1474.3	1477.6
15°	1560.5	1546.5	1535.9	1519.5	1512.9	1508.0	1508.8	1506.3	1516.2	1521.9	1532.6
17.5°	1576.1	1570.4	1567.9	1555.6	1559.7	1559.7	1571.2	1576.9	1595.0	1609.8	1624.5
20°	1584.3	1595.0	1615.5	1619.6	1629.5	1640.1	1657.4	1667.2	1686.1	1707.4	1728.0
22.5°	1591.7	1636.8	1678.7	1709.9	1732.1	1756.7	1769.0	1789.5	1802.7	1818.3	1849.5
25°	1632.7	1708.3	1782.1	1822.4	1874.9	1910.2	1938.1	1958.6	1981.6	1994.7	2030.0
27.5°	1621.2	1717.3	1815.8	1889.7	1971.8	2038.3	2097.4	2136.8	2166.3	2213.9	2243.5
30°	1568.7	1680.4	1799.4	1904.5	2019.4	2127.7	2230.3	2322.3	2401.1	2465.1	2508.6
32.5°	1494.0	1622.1	1761.6	1891.3	2038.3	2182.7	2330.5	2470.9	2604.7	2710.6	2777.1
35°	1410.3	1548.2	1702.5	1856.0	2032.5	2221.3	2420.8	2609.6	2803.3	2972.4	3105.4
37.5°	1308.5	1457.9	1627.0	1805.1	2007.9	2234.4	2485.6	2742.6	2989.7	3245.8	3432.9
40°	1201.8	1347.9	1523.6	1727.1	1961.1	2227.9	2535.7	2869.0	3226.9	3556.9	3841.7
42.5°	1110.7	1253.5	1437.4	1638.5	1890.5	2203.3	2569.4	2982.3	3423.1	3850.8	4229.2
45°	1021.2	1173.9	1359.4	1572.0	1847.0	2193.4	2612.9	3080.8	3584.0	4091.3	4574.0
47.5°	950.6	1101.6	1288.8	1517.0	1811.7	2187.7	2653.9	3172.7	3715.3	4270.2	4842.4
50°	883.3	1027.7	1210.0	1450.5	1774.8	2178.6	2678.5	3245.8	3817.9	4410.6	5032.8
52.5°	814.3	964.5	1141.9	1375.0	1726.3	2160.6	2685.9	3303.2	3923.8	4545.2	5211.0
55°	744.5	894.8	1072.1	1313.4	1660.6	2125.3	2680.2	3345.1	4034.6	4687.2	5373.5
57.5°	659.2	806.9	992.4	1235.4	1576.1	2054.7	2652.3	3363.2	4103.6	4820.2	5536.9
60°	563.1	702.7	878.3	1126.3	1472.7	1952.9	2589.9	3337.7	4134.8	4908.1	5710.1
62.5°	442.5	563.9	725.7	971.9	1322.4	1805.9	2453.6	3225.3	4059.3	4885.9	5784.8
63°	415.4	532.8	699.4	930.9	1278.1	1755.1	2413.4	3186.7	4025.6	4865.4	5775.7
65°	316.9	403.9	541.8	748.6	1080.3	1520.3	2201.6	2968.3	3813.8	4661.0	5633.7
67.5°	234.0	279.1	363.7	502.4	760.1	1182.9	1804.3	2563.6	3364.0	4160.2	5150.2
70°	193.7	211.0	250.4	321.8	470.4	784.8	1274.8	1951.2	2704.0	3389.4	4283.4
72.5°	173.2	185.5	203.6	235.6	297.2	460.5	829.1	1266.6	1883.1	2475.8	3231.0
75°	155.1	163.4	178.1	197.0	224.9	288.1	438.4	751.1	1150.9	1668.0	2216.4
77.5°	136.3	144.5	159.3	174.0	192.1	219.2	271.7	427.7	688.7	973.6	1360.2
80°	118.2	122.3	134.6	156.0	169.1	191.3	208.5	267.6	375.1	509.8	724.8
82.5°	97.7	98.5	106.7	123.1	139.6	147.8	152.7	168.3	215.9	269.3	355.4
85°	69.8	66.5	71.4	78.0	91.1	83.7	89.5	94.4	114.9	138.7	254.5
87.5°	31.2	24.6	28.7	32.0	28.7	19.7	28.7	23.8	29.6	58.3	65.7
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: P146051  
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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	0°
2.5°	1359.4	1354.5	1354.5	1353.6	1354.5	1352.8	1349.5	1349.5	1352.0	1351.2	1351.2	2.5°
5°	1388.1	1381.5	1379.9	1379.1	1379.1	1375.0	1370.1	1367.6	1366.8	1363.5	1361.0	5°
7.5°	1425.9	1421.8	1424.2	1419.3	1417.7	1416.8	1410.3	1405.4	1398.0	1394.7	1382.4	7.5°
10°	1457.1	1454.6	1461.2	1460.4	1461.2	1461.2	1452.1	1447.2	1436.5	1430.8	1415.2	10°
12.5°	1484.2	1485.8	1498.1	1498.1	1500.6	1503.9	1498.9	1488.3	1484.2	1478.4	1462.0	12.5°
15°	1553.1	1559.7	1568.7	1583.5	1587.6	1588.4	1592.5	1583.5	1572.8	1558.0	1538.3	15°
17.5°	1646.7	1659.8	1690.2	1711.5	1715.6	1719.8	1717.3	1715.6	1695.9	1683.6	1663.1	17.5°
20°	1764.1	1796.1	1838.8	1868.3	1881.5	1883.1	1899.5	1888.0	1870.0	1845.3	1815.8	20°
22.5°	1895.4	1948.8	2003.0	2046.5	2071.9	2083.4	2100.6	2084.2	2060.4	2045.6	2006.2	22.5°
25°	2075.2	2133.5	2195.9	2230.3	2295.2	2314.1	2323.9	2319.0	2294.4	2305.0	2268.9	25°
27.5°	2321.5	2371.5	2459.4	2502.9	2563.6	2598.9	2591.5	2632.6	2640.0	2665.4	2669.5	27.5°
30°	2589.9	2672.8	2791.0	2878.8	2971.6	3031.5	3079.1	3115.3	3157.1	3227.7	3270.4	30°
32.5°	2879.7	2999.5	3150.6	3336.9	3533.9	3694.8	3876.2	3907.4	4001.0	3973.9	3955.8	32.5°
35°	3202.3	3353.3	3547.0	3791.7	4078.2	4344.1	4519.0	4606.8	4643.7	4664.3	4539.5	35°
37.5°	3634.1	3838.5	4054.3	4321.1	4540.3	4789.0	4990.2	5208.5	5308.7	5261.0	5022.2	37.5°
40°	4112.6	4303.9	4596.1	4814.5	5073.1	5482.7	5755.2	6017.9	6100.0	5941.6	5567.2	40°
42.5°	4592.8	4855.5	5172.4	5482.7	5779.8	6150.9	6512.1	6771.5	6861.8	6590.9	6146.8	42.5°
45°	5020.5	5357.1	5729.8	6048.3	6463.6	6948.8	7391.2	7599.7	7583.3	7148.3	6648.3	45°
47.5°	5393.2	5829.9	6250.2	6679.5	7098.2	7645.7	8084.1	8323.8	8153.8	7696.6	7130.2	47.5°
50°	5701.0	6228.9	6736.2	7229.5	7743.4	8325.4	8748.2	8969.8	8711.2	8132.5	7499.6	50°
52.5°	5935.0	6589.2	7173.7	7725.3	8339.4	8968.2	9344.1	9477.9	9074.9	8469.9	7776.2	52.5°
55°	6155.8	6895.4	7542.3	8168.6	8932.9	9496.8	9849.0	9824.3	9303.9	8616.8	7949.4	55°
57.5°	6322.5	7156.5	7845.2	8558.5	9381.9	9984.4	10188.0	10025.5	9399.1	8660.3	7999.5	57.5°
60°	6532.6	7360.0	8114.4	8910.7	9808.7	10318.5	10345.6	10054.2	9372.0	8578.2	7928.9	60°
62.5°	6667.2	7487.3	8286.0	9152.0	10133.8	10506.5	10312.8	9930.2	9216.1	8375.5	7767.2	62.5°
63°	6680.4	7499.6	8300.0	9175.8	10179.8	10514.7	10282.4	9874.4	9170.1	8319.7	7724.5	63°
65°	6621.3	7464.3	8235.9	9133.2	10191.3	10417.8	10059.9	9645.4	8916.4	8034.8	7473.3	65°
67.5°	6208.3	7085.1	7821.4	8662.8	9748.0	9873.6	9514.9	9064.2	8379.6	7420.8	6924.2	67.5°
70°	5468.7	6301.9	6824.0	7605.5	8560.2	8710.4	8389.4	8040.6	7432.3	6631.1	6219.0	70°
72.5°	4405.7	5224.1	5537.7	6136.1	6894.6	6861.8	6636.0	6592.5	6272.4	5600.1	5352.2	72.5°
75°	3293.4	4072.4	4204.6	4448.4	4871.9	4861.3	4913.8	5101.0	5261.0	4863.7	4546.1	75°
77.5°	2172.1	2947.0	3029.1	3313.1	3430.5	3752.3	4129.9	4600.2	4833.4	4670.8	4280.9	77.5°
80°	1201.8	2016.1	1999.7	2110.5	2318.2	2786.1	3358.2	4056.8	4523.1	4406.5	3979.6	80°
82.5°	624.7	1274.0	1255.1	1274.8	1467.7	1860.9	2296.0	2867.3	3349.2	3359.9	3216.2	82.5°
85°	464.6	914.5	968.6	1013.0	1141.0	1278.1	1357.7	1540.8	1805.1	2051.4	2139.2	85°
87.5°	170.7	549.2	683.8	734.7	738.0	720.7	586.9	646.0	587.8	695.3	971.1	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°
1357.7	1357.7	1357.7	1357.7	1357.7	1357.7	1357.7
1352.8	1352.8	1352.0	1353.6	1354.5	1356.9	1356.1
1358.6	1356.1	1353.6	1352.0	1350.4	1351.2	1349.5
1373.3	1365.1	1358.6	1352.8	1347.9	1347.1	1342.1
1406.2	1391.4	1379.1	1370.1	1360.2	1355.3	1346.3
1448.0	1431.6	1416.0	1402.9	1391.4	1384.8	1378.3
1521.1	1497.3	1478.4	1464.5	1453.0	1445.6	1439.0
1629.5	1599.9	1571.2	1544.1	1540.8	1523.6	1523.6
1778.9	1738.6	1701.7	1678.7	1668.0	1645.1	1645.1
1985.7	1946.3	1891.3	1863.4	1865.9	1846.2	1855.2
2253.3	2220.5	2163.9	2152.4	2152.4	2131.0	2099.0
2654.7	2643.2	2580.9	2596.5	2563.6	2484.0	2397.8
3250.7	3250.7	3130.0	3043.0	2967.5	2843.5	2691.7
3847.5	3769.5	3584.8	3437.0	3280.3	3090.6	2895.3
4351.5	4143.8	3956.7	3776.1	3540.5	3336.9	3062.7
4776.7	4579.7	4365.5	4090.5	3813.8	3529.8	3177.6
5303.7	5064.0	4742.2	4396.7	4056.8	3666.1	3258.1
5785.6	5485.1	5078.8	4641.3	4208.7	3772.8	3296.7
6238.7	5851.3	5349.7	4824.3	4331.8	3838.5	3313.1
6665.6	6146.0	5562.3	4954.9	4416.4	3873.8	3309.0
6947.1	6361.9	5696.1	5033.7	4467.3	3886.1	3297.5
7123.6	6494.0	5774.9	5077.2	4492.7	3888.5	3296.7
7223.0	6568.7	5817.6	5107.5	4520.6	3903.3	3316.4
7300.1	6627.8	5865.2	5159.3	4587.1	3972.3	3396.0
7373.2	6783.0	5989.2	5254.5	4702.8	4101.1	3570.8
7403.6	7077.7	6241.2	5430.2	4864.6	4308.0	3843.4
7401.1	7133.5	6314.2	5478.6	4907.2	4363.0	3913.2
7311.6	7310.8	6646.7	5710.1	5105.9	4617.5	4204.6
7046.5	7399.5	7014.5	6015.4	5414.6	5036.9	4642.9
6627.0	7291.9	7064.5	6095.9	5633.7	5421.9	4935.2
5904.6	6778.0	6595.8	5752.8	5559.0	5497.5	4942.5
4775.9	5449.0	5371.0	4914.6	4986.1	5112.5	4414.7
3847.5	3826.1	3814.6	3648.8	3952.6	4209.5	3281.9
3213.8	2647.4	2458.5	2394.5	2895.3	3092.3	2036.6
3004.4	2378.1	1907.7	1827.3	2169.6	2274.7	1228.0
2296.0	2309.1	1998.9	1713.2	1687.7	1544.9	899.7
1123.8	1142.7	1207.5	1102.4	945.7	797.1	283.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)