

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: P146048

Luminaire Tested: **LDRL-SLR-E04-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146048  
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-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9093 lumens  
Efficiency: N/A  
Efficacy: 93.5 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - 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

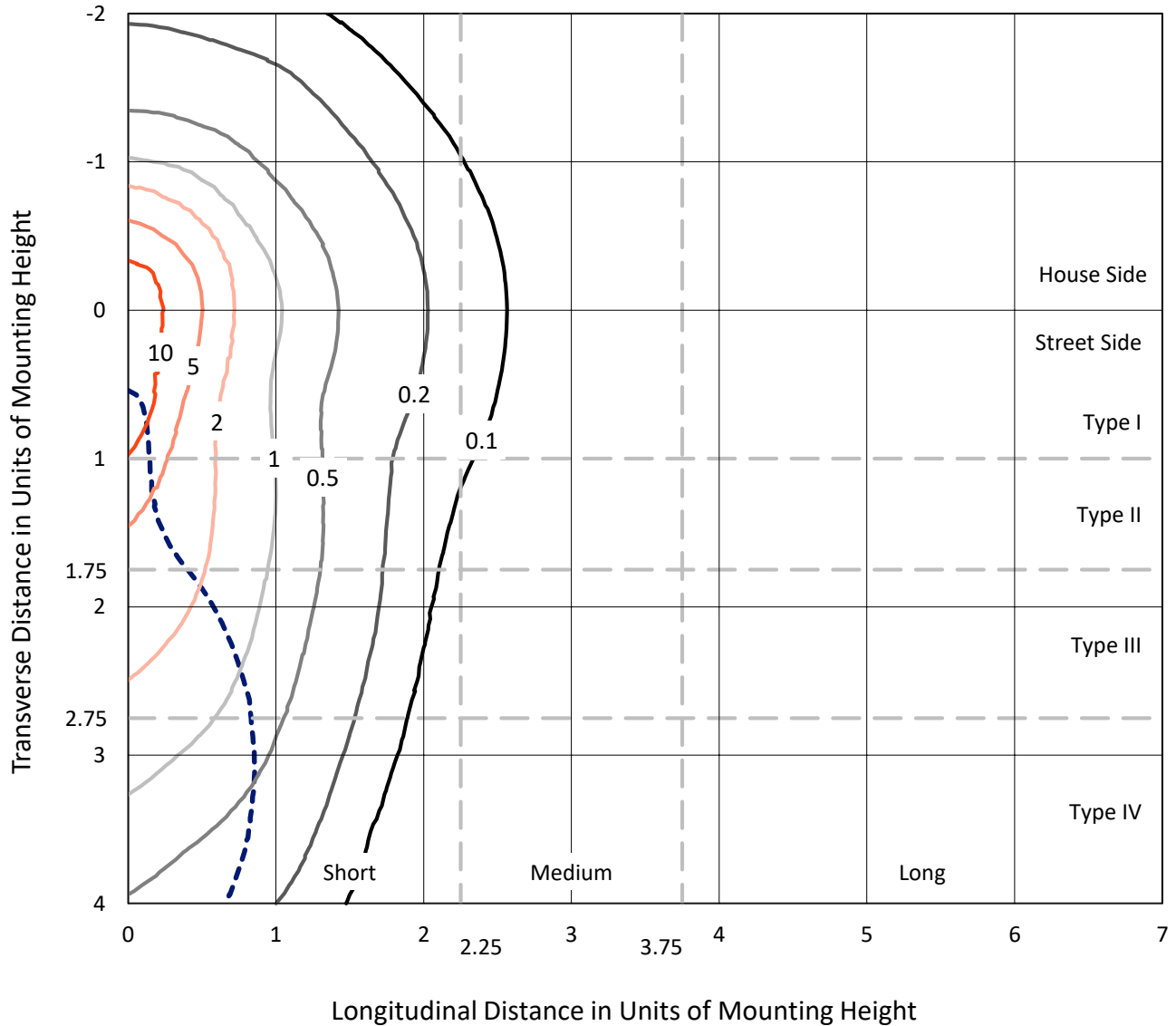


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### Iso-Footcandle Lines of Horizontal Illumination

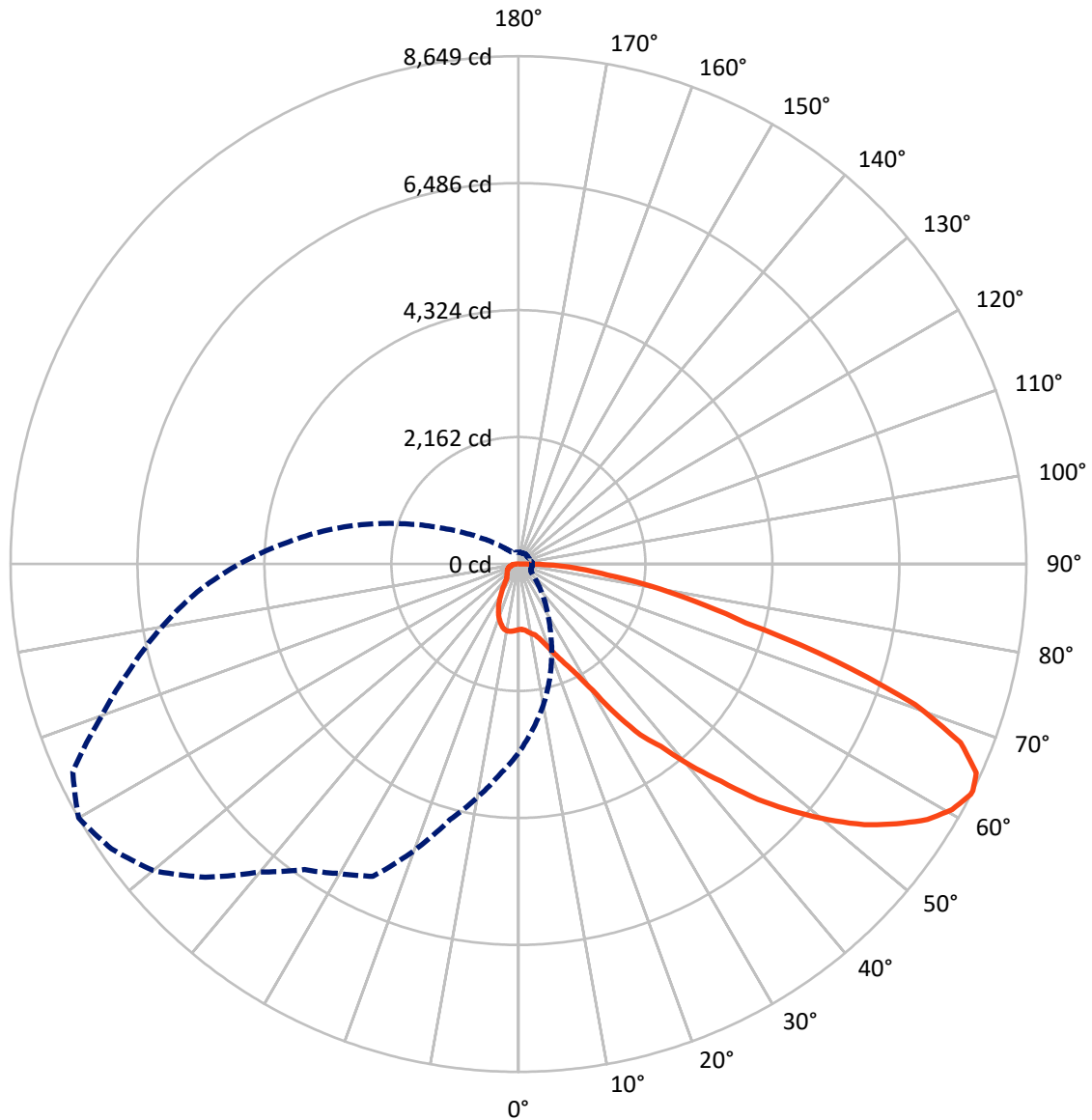
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.3 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	1903.4	0.0	1903.4
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	7189.5	0.0	7189.5
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	9093.0	0.0	9093.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.7	1.2
10°-20°	342.3	3.8
20°-30°	605.4	6.7
30°-40°	955.7	10.5
40°-50°	1405.3	15.5
50°-60°	1851.2	20.4
60°-70°	2063.4	22.7
70°-80°	1355.7	14.9
80°-90°	404.3	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°	9093.0	100.0
0°-180°	9093.0	100.0

**Coefficient of Utilization**



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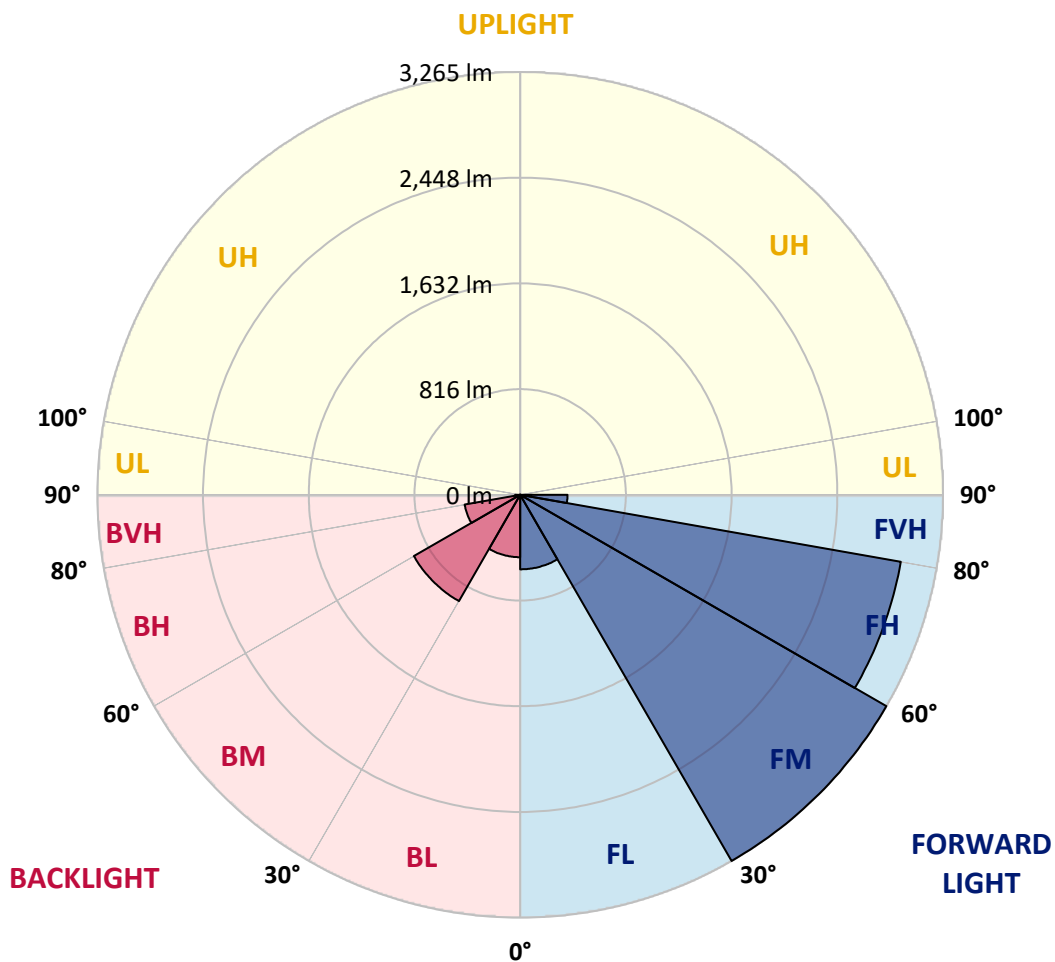
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	575.5	6.3			
FM	(30°-60°)	3264.6	35.9			
FH	(60°-80°)	2984.0	32.8			G2/5000
FVH	(80°-90°)	365.4	4.0			G3/500
BL	(0°-30°)	481.8	5.3	B1/500		
BM	(30°-60°)	947.7	10.4	B1/1000		
BH	(60°-80°)	435.0	4.8	B1/500		G1/500
BVH	(80°-90°)	38.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1115.4	1117.4	1117.4	1115.4	1117.4	1116.8	1116.8	1118.8	1119.5	1122.8	1120.8
5°	1110.0	1110.7	1111.4	1110.0	1110.7	1110.7	1112.0	1114.1	1114.7	1118.8	1116.8
7.5°	1103.9	1105.3	1102.6	1103.3	1105.3	1108.0	1108.0	1110.7	1115.4	1117.4	1116.8
10°	1107.3	1106.0	1103.9	1103.3	1104.6	1105.3	1106.6	1111.4	1115.4	1117.4	1120.8
12.5°	1133.6	1129.6	1127.6	1126.9	1127.6	1126.2	1130.9	1132.3	1133.6	1136.3	1135.0
15°	1183.6	1178.2	1174.8	1171.5	1178.9	1175.5	1175.5	1171.5	1164.7	1154.6	1141.8
17.5°	1253.2	1247.1	1244.4	1243.0	1243.7	1237.6	1225.5	1205.9	1182.3	1155.3	1130.3
20°	1353.1	1362.5	1358.5	1340.3	1333.5	1306.5	1268.0	1227.5	1186.3	1143.1	1101.9
22.5°	1525.9	1520.5	1502.3	1457.1	1416.6	1355.8	1286.9	1221.4	1160.7	1097.9	1043.8
25°	1726.5	1681.2	1629.9	1540.8	1447.6	1347.7	1248.4	1170.8	1089.8	1020.9	956.1
27.5°	1972.2	1874.3	1743.3	1598.2	1459.1	1326.1	1208.6	1106.0	1013.5	939.9	867.6
30°	2214.0	2050.6	1868.3	1675.8	1488.1	1308.5	1153.2	1034.4	927.7	833.2	760.3
32.5°	2381.4	2183.6	1956.7	1719.0	1490.8	1280.2	1092.5	950.7	830.5	735.3	647.5
35°	2519.1	2272.0	1987.8	1712.3	1447.6	1214.0	1005.4	848.0	720.4	621.9	544.9
37.5°	2613.7	2317.3	1985.7	1673.1	1370.6	1108.7	905.4	745.4	626.6	534.8	463.9
40°	2679.8	2331.4	1959.4	1606.3	1282.2	1006.7	798.8	652.9	548.9	477.4	426.0
42.5°	2711.6	2322.0	1920.2	1542.8	1194.4	924.3	718.4	590.8	506.4	452.4	414.6
45°	2725.1	2299.0	1876.4	1480.7	1122.8	853.4	677.2	571.9	505.7	459.1	417.9
47.5°	2721.7	2274.0	1837.2	1429.4	1080.3	834.5	685.3	597.5	530.7	472.6	420.0
50°	2712.2	2251.1	1812.2	1410.5	1079.6	862.9	730.6	640.8	559.7	484.8	417.9
52.5°	2711.6	2249.1	1825.7	1432.8	1118.8	927.0	798.8	690.7	588.1	498.3	418.6
55°	2727.8	2285.5	1883.1	1492.9	1213.3	1016.8	875.7	744.1	619.8	507.7	416.6
57.5°	2793.3	2376.7	1991.8	1627.2	1334.9	1126.2	950.0	783.9	632.0	505.0	407.1
60°	2937.1	2536.7	2159.3	1816.9	1490.8	1226.2	993.9	797.4	626.6	488.8	386.9
62.5°	3161.3	2768.3	2388.8	2003.3	1629.2	1286.2	1004.0	786.6	605.0	461.8	361.9
63°	3218.6	2821.6	2435.4	2041.8	1652.9	1292.3	1003.3	782.5	598.9	455.1	355.8
65°	3458.3	3050.5	2622.4	2168.7	1716.3	1304.5	987.8	756.9	571.9	423.3	328.1
67.5°	3818.9	3303.0	2808.1	2286.9	1751.4	1282.9	939.2	693.4	502.3	368.0	287.0
70°	4059.3	3470.5	2918.9	2325.4	1710.3	1184.3	827.8	581.3	410.5	303.2	245.1
72.5°	4065.3	3320.6	2769.0	2125.5	1476.6	977.0	648.2	439.6	319.4	246.4	211.3
75°	3631.2	2806.1	2263.2	1745.4	1136.3	690.7	455.8	320.7	245.1	203.2	183.0
77.5°	2699.4	2047.2	1633.3	1174.2	738.0	447.7	317.3	237.7	194.5	168.1	153.3
80°	1675.2	1279.5	991.2	702.2	442.3	297.8	232.3	189.1	163.4	140.4	128.3
82.5°	1010.1	716.4	559.7	424.0	282.9	214.7	178.9	159.3	138.4	118.2	108.7
85°	740.0	512.5	375.4	262.0	174.9	141.8	125.6	121.5	107.4	91.2	85.7
87.5°	232.9	244.4	253.9	154.6	84.4	64.1	54.7	64.1	61.4	43.2	47.3
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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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1124.2	1126.9	1124.9	1124.9	1123.5	1122.8	1127.6	1126.2	1127.6	1126.9	1128.2
5°	1120.1	1122.2	1120.8	1122.2	1120.8	1120.8	1126.9	1126.9	1129.6	1130.9	1134.3
7.5°	1121.5	1122.2	1121.5	1123.5	1122.2	1120.8	1124.2	1126.2	1130.9	1135.0	1138.4
10°	1126.2	1128.2	1127.6	1127.6	1123.5	1120.8	1122.8	1124.2	1128.9	1130.9	1135.0
12.5°	1137.7	1135.0	1129.6	1126.2	1116.8	1111.4	1108.7	1107.3	1110.7	1113.4	1115.4
15°	1135.0	1120.1	1108.0	1097.9	1083.7	1074.9	1068.2	1067.5	1068.2	1068.8	1070.9
17.5°	1107.3	1087.1	1062.8	1049.9	1033.7	1024.3	1019.5	1016.2	1015.5	1016.8	1020.2
20°	1067.5	1037.8	1010.8	988.5	970.9	956.1	959.4	952.0	955.4	957.4	963.5
22.5°	1006.7	965.5	934.5	907.5	886.5	871.0	871.0	864.2	865.6	871.7	879.8
25°	908.1	869.6	825.1	806.2	782.5	771.7	769.7	768.4	773.8	781.2	785.9
27.5°	819.0	766.3	722.5	697.5	672.5	675.2	661.7	669.8	675.9	681.9	687.3
30°	698.8	655.6	615.8	590.8	561.1	561.8	563.8	565.1	570.5	578.6	589.4
32.5°	583.4	536.8	499.6	472.6	455.1	449.7	442.3	454.4	461.2	469.3	480.1
35°	488.2	439.6	408.5	384.9	374.7	367.3	365.3	363.9	370.0	374.1	382.8
37.5°	420.0	386.9	363.9	347.0	337.6	329.5	327.5	326.1	325.4	324.1	329.5
40°	392.3	366.0	346.4	330.8	322.1	317.3	315.3	312.6	309.9	306.5	305.9
42.5°	384.2	355.8	332.9	317.3	310.6	309.9	309.9	308.6	305.9	301.1	297.8
45°	380.8	346.4	320.0	307.9	303.2	303.8	303.8	303.8	301.8	297.1	291.7
47.5°	374.7	334.9	307.9	297.8	295.7	297.1	298.4	298.4	297.1	293.0	287.0
50°	363.3	317.3	289.0	279.5	278.9	279.5	279.5	280.9	279.5	276.2	270.8
52.5°	354.5	303.8	274.8	267.4	267.4	266.7	266.0	266.0	265.4	262.6	258.6
55°	346.4	295.1	268.7	262.6	264.0	264.0	262.6	262.0	259.3	255.9	251.8
57.5°	334.9	285.6	262.6	258.6	259.9	259.3	258.6	257.9	255.2	251.2	245.8
60°	314.6	268.7	250.5	247.8	249.8	250.5	253.2	253.9	252.5	247.8	240.4
62.5°	292.4	247.8	234.3	232.3	234.3	236.3	238.3	237.0	237.0	232.3	225.5
63°	284.9	244.4	229.6	229.6	231.6	233.6	235.0	233.6	234.3	228.9	222.1
65°	268.1	232.3	220.8	221.5	223.5	224.8	225.5	225.5	224.8	220.8	214.7
67.5°	239.7	214.7	208.0	211.3	214.0	214.7	214.7	216.1	214.7	212.0	206.6
70°	214.0	197.8	193.1	197.2	198.5	199.2	199.2	199.2	197.8	195.1	190.4
72.5°	194.5	186.4	185.7	185.0	185.7	183.7	183.7	182.3	178.9	176.9	172.8
75°	172.8	168.8	169.5	168.8	167.4	166.8	163.4	162.0	158.0	155.3	149.9
77.5°	148.5	149.2	148.5	149.2	150.6	151.2	146.5	143.1	139.8	137.1	134.4
80°	123.6	124.9	123.6	124.9	125.6	125.6	120.9	115.5	112.8	114.8	115.5
82.5°	110.1	110.1	104.7	106.0	104.7	102.6	99.3	97.2	95.2	93.9	97.2
85°	87.1	87.8	89.1	87.8	85.1	83.0	79.7	77.0	74.9	77.0	81.7
87.5°	52.0	56.0	54.0	54.0	53.3	53.3	50.6	49.3	47.3	55.4	59.4
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1127.6	1129.6	1130.3	1129.6	1130.3	1131.6	1126.2	1131.6	1132.3	1128.2	1129.6
5°	1137.0	1140.4	1145.1	1145.1	1148.5	1150.5	1147.8	1155.3	1156.6	1155.9	1159.3
7.5°	1143.8	1148.5	1154.6	1158.0	1164.0	1166.7	1168.8	1175.5	1176.9	1179.6	1182.3
10°	1143.1	1149.9	1155.3	1164.7	1172.1	1177.5	1181.6	1189.0	1191.7	1195.8	1197.8
12.5°	1123.5	1130.9	1141.1	1154.6	1168.1	1176.9	1187.7	1198.5	1202.5	1207.9	1211.3
15°	1079.6	1085.7	1099.9	1117.4	1135.7	1158.0	1173.5	1190.4	1197.8	1203.2	1207.9
17.5°	1022.2	1027.6	1040.5	1056.0	1080.3	1101.9	1125.5	1151.2	1164.0	1170.1	1172.1
20°	968.9	977.0	980.4	998.6	1006.7	1028.3	1048.6	1076.9	1093.1	1103.9	1110.7
22.5°	885.2	889.2	906.8	914.2	920.3	933.8	958.8	983.8	1005.4	1022.9	1028.3
25°	792.7	803.5	812.9	819.0	833.2	833.9	854.1	871.7	898.7	915.6	929.1
27.5°	690.7	706.9	712.3	716.4	727.2	740.0	747.4	765.0	780.5	800.1	824.4
30°	588.1	603.6	614.4	620.5	630.6	642.8	648.2	659.7	679.9	701.5	720.4
32.5°	492.2	508.4	513.8	533.4	536.1	547.6	551.6	569.9	581.3	599.6	621.9
35°	398.4	415.2	431.4	442.3	454.4	453.7	464.5	481.4	491.5	510.4	525.3
37.5°	334.2	344.3	355.8	368.0	381.5	391.6	401.7	409.2	417.3	430.1	443.6
40°	305.9	308.6	313.3	320.7	330.2	337.6	345.0	351.1	357.2	367.3	376.1
42.5°	294.4	292.4	292.4	291.0	294.4	298.4	304.5	306.5	316.0	322.1	325.4
45°	286.3	281.6	278.2	274.1	272.8	274.1	277.5	282.2	288.3	290.3	290.3
47.5°	281.6	274.1	268.7	262.6	259.3	259.3	261.3	264.7	268.1	268.7	268.1
50°	265.4	257.9	251.2	245.8	243.1	243.1	243.7	248.5	249.1	247.8	248.5
52.5°	253.2	245.8	239.0	234.3	230.9	231.6	233.6	235.6	237.7	236.3	235.0
55°	245.8	237.0	230.9	225.5	221.5	222.8	224.8	227.5	230.9	228.9	226.9
57.5°	239.0	231.6	224.2	218.8	214.0	215.4	217.4	221.5	225.5	221.5	218.8
60°	232.9	225.5	218.1	212.7	207.3	208.6	211.3	215.4	218.8	213.4	210.0
62.5°	218.1	211.3	205.9	203.2	199.9	201.9	203.9	208.6	207.3	201.9	197.8
63°	215.4	208.6	203.9	201.2	198.5	201.2	201.9	206.6	204.6	199.2	195.8
65°	207.3	201.9	197.2	194.5	191.8	193.1	193.1	195.1	192.4	188.4	185.7
67.5°	199.9	193.8	189.1	183.7	181.0	179.6	178.9	178.3	176.2	174.2	173.5
70°	183.7	179.6	175.6	170.8	166.8	164.1	162.7	161.4	160.0	159.3	158.7
72.5°	166.1	162.7	158.7	156.0	152.6	150.6	147.2	146.5	145.2	143.8	143.1
75°	147.2	143.1	141.8	139.1	137.1	135.7	133.0	132.3	131.0	129.0	128.3
77.5°	130.3	129.0	126.9	126.3	122.9	120.9	119.5	118.8	117.5	116.1	114.8
80°	116.1	115.5	114.1	113.4	111.4	108.7	107.4	108.0	106.0	105.3	103.3
82.5°	104.7	105.3	105.3	103.3	101.3	97.9	96.6	98.6	97.2	94.5	91.8
85°	89.1	88.5	89.1	88.5	84.4	81.0	79.7	81.0	80.3	76.3	75.6
87.5°	63.5	62.8	61.4	65.5	60.1	48.6	50.0	56.7	54.7	52.7	51.3
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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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1132.3	1130.3	1131.6	1132.3	1130.3	1135.0	1130.3	1130.9	1132.3	1128.2	1127.6
5°	1162.0	1162.0	1167.4	1168.1	1167.4	1173.5	1172.8	1173.5	1172.1	1171.5	1168.8
7.5°	1186.3	1189.0	1193.1	1199.1	1201.2	1205.9	1207.2	1207.9	1210.6	1213.3	1212.0
10°	1203.9	1211.3	1214.7	1220.7	1226.8	1230.2	1233.6	1239.0	1241.0	1243.0	1240.3
12.5°	1216.0	1224.8	1230.2	1237.6	1245.1	1250.5	1256.5	1263.3	1270.0	1272.1	1268.7
15°	1209.9	1220.1	1228.2	1236.3	1247.8	1257.9	1269.4	1281.5	1290.3	1293.7	1289.6
17.5°	1172.1	1182.3	1194.4	1206.6	1218.7	1237.6	1253.8	1274.1	1288.3	1298.4	1299.7
20°	1120.1	1126.2	1143.8	1155.9	1175.5	1197.8	1222.1	1245.7	1261.9	1280.2	1291.0
22.5°	1043.2	1055.3	1074.9	1095.8	1115.4	1144.5	1170.1	1201.2	1228.9	1253.8	1277.5
25°	949.3	966.2	989.2	1018.2	1043.8	1074.9	1112.0	1146.5	1193.1	1232.2	1282.9
27.5°	848.0	879.1	910.8	941.2	969.6	1004.7	1043.2	1081.7	1135.0	1197.8	1264.0
30°	752.2	777.8	817.7	852.8	885.9	929.1	968.9	1011.4	1062.1	1136.3	1211.3
32.5°	652.2	673.2	704.2	747.4	785.9	836.6	871.7	922.3	981.1	1059.4	1144.5
35°	548.9	578.0	602.9	632.7	661.7	712.3	765.0	821.0	888.6	972.3	1065.5
37.5°	457.8	476.0	488.2	518.5	544.2	587.4	648.9	716.4	790.7	875.7	975.7
40°	382.2	393.6	407.1	427.4	449.0	488.2	544.9	620.5	698.1	783.2	883.2
42.5°	330.2	337.6	338.9	354.5	374.7	413.2	458.5	528.0	613.8	702.9	802.8
45°	294.4	294.4	293.7	300.5	316.7	349.7	390.9	453.1	534.8	627.9	731.9
47.5°	269.4	271.4	270.8	273.5	284.3	308.6	345.7	398.4	472.6	563.8	668.4
50°	250.5	253.2	253.9	254.5	258.6	278.9	310.6	353.1	419.3	506.4	611.7
52.5°	235.6	236.3	236.3	235.6	237.0	248.5	274.8	314.0	375.4	453.7	555.0
55°	227.5	228.2	228.2	228.2	228.2	235.6	254.5	286.3	335.6	409.2	501.0
57.5°	218.1	218.1	219.4	219.4	219.4	222.1	235.6	262.0	299.8	358.5	440.2
60°	210.0	212.0	214.7	215.4	214.7	214.7	221.5	239.0	264.0	306.5	375.4
62.5°	197.8	200.5	203.9	205.3	205.9	204.6	208.0	215.4	230.2	252.5	299.1
63°	195.8	198.5	201.2	202.6	203.2	201.9	204.6	210.7	222.8	241.0	282.9
65°	187.0	190.4	191.1	191.8	191.1	190.4	189.7	189.7	193.1	199.9	222.1
67.5°	174.9	176.9	176.9	178.3	174.9	173.5	172.2	170.8	168.8	169.5	177.6
70°	160.7	162.0	161.4	160.7	159.3	157.3	156.0	153.9	149.9	148.5	152.6
72.5°	144.5	145.8	145.8	145.8	143.1	141.8	140.4	139.1	137.7	139.1	140.4
75°	129.6	129.6	131.0	130.3	128.3	126.9	126.3	125.6	125.6	125.6	124.9
77.5°	115.5	114.8	114.8	112.8	111.4	110.7	112.1	112.8	112.1	110.7	110.1
80°	103.3	99.9	96.6	93.9	93.2	94.5	95.9	99.9	97.9	97.9	96.6
82.5°	87.8	80.3	75.6	76.3	74.3	74.9	76.3	81.0	79.7	80.3	83.0
85°	70.2	63.5	56.0	57.4	57.4	56.0	59.4	60.8	62.1	65.5	62.8
87.5°	49.3	43.2	35.8	31.1	32.4	33.8	35.1	33.8	29.7	31.1	30.4
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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CATALOG NUMBER: LDRL-SLR-E04-E-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
2.5°	1126.2	1126.9	1126.9	1122.2	1120.8	1122.2	1121.5	1121.5	1117.4	1118.1	1116.8
5°	1167.4	1168.8	1164.7	1161.3	1156.6	1155.9	1155.3	1152.6	1149.9	1144.5	1141.8
7.5°	1211.3	1205.2	1203.9	1197.8	1195.8	1190.4	1186.3	1182.3	1178.9	1176.2	1174.2
10°	1239.0	1234.3	1232.9	1222.1	1218.7	1212.0	1207.9	1203.2	1199.1	1195.1	1194.4
12.5°	1264.0	1255.9	1251.1	1236.3	1229.5	1222.1	1218.7	1214.7	1213.3	1212.6	1215.3
15°	1283.5	1272.1	1263.3	1249.8	1244.4	1240.3	1241.0	1239.0	1247.1	1251.8	1260.6
17.5°	1296.4	1291.6	1289.6	1279.5	1282.9	1282.9	1292.3	1297.0	1311.9	1324.1	1336.2
20°	1303.1	1311.9	1328.8	1332.2	1340.3	1349.0	1363.2	1371.3	1386.8	1404.4	1421.3
22.5°	1309.2	1346.3	1380.8	1406.4	1424.7	1444.9	1455.0	1471.9	1482.7	1495.6	1521.2
25°	1343.0	1405.1	1465.8	1498.9	1542.1	1571.2	1594.1	1611.0	1629.9	1640.7	1669.8
27.5°	1333.5	1412.5	1493.5	1554.3	1621.8	1676.5	1725.1	1757.5	1781.8	1821.0	1845.3
30°	1290.3	1382.1	1480.0	1566.4	1661.0	1750.1	1834.5	1910.1	1974.9	2027.6	2063.4
32.5°	1228.9	1334.2	1449.0	1555.6	1676.5	1795.3	1916.9	2032.3	2142.4	2229.5	2284.2
35°	1160.0	1273.4	1400.3	1526.6	1671.8	1827.1	1991.1	2146.4	2305.8	2444.9	2554.3
37.5°	1076.3	1199.1	1338.2	1484.7	1651.5	1837.9	2044.5	2255.8	2459.1	2669.7	2823.7
40°	988.5	1108.7	1253.2	1420.6	1613.0	1832.5	2085.7	2359.8	2654.2	2925.6	3159.9
42.5°	913.5	1031.0	1182.3	1347.7	1555.0	1812.2	2113.4	2453.0	2815.6	3167.3	3478.6
45°	839.9	965.5	1118.1	1293.0	1519.2	1804.1	2149.1	2534.0	2947.9	3365.2	3762.2
47.5°	781.9	906.1	1060.1	1247.8	1490.2	1799.4	2182.9	2609.6	3055.9	3512.4	3983.0
50°	726.5	845.3	995.2	1193.1	1459.8	1792.0	2203.2	2669.7	3140.3	3627.8	4139.6
52.5°	669.8	793.4	939.2	1130.9	1419.9	1777.1	2209.2	2717.0	3227.4	3738.5	4286.1
55°	612.4	736.0	881.8	1080.3	1365.9	1748.1	2204.5	2751.4	3318.6	3855.4	4419.8
57.5°	542.2	663.7	816.3	1016.2	1296.4	1690.0	2181.5	2766.3	3375.3	3964.7	4554.2
60°	463.2	578.0	722.5	926.4	1211.3	1606.3	2130.2	2745.3	3400.9	4037.0	4696.6
62.5°	363.9	463.9	596.9	799.4	1087.7	1485.4	2018.2	2652.8	3338.8	4018.7	4758.1
63°	341.6	438.2	575.3	765.7	1051.3	1443.6	1985.1	2621.1	3311.1	4001.9	4750.7
65°	260.6	332.2	445.6	615.8	888.6	1250.5	1810.9	2441.5	3136.9	3833.7	4633.8
67.5°	192.4	229.6	299.1	413.2	625.2	973.0	1484.1	2108.6	2766.9	3421.9	4236.2
70°	159.3	173.5	205.9	264.7	386.9	645.5	1048.6	1604.9	2224.1	2787.9	3523.2
72.5°	142.5	152.6	167.4	193.8	244.4	378.8	681.9	1041.8	1548.9	2036.4	2657.6
75°	127.6	134.4	146.5	162.0	185.0	237.0	360.6	617.8	946.6	1372.0	1823.0
77.5°	112.1	118.8	131.0	143.1	158.0	180.3	223.5	351.8	566.5	800.8	1118.8
80°	97.2	100.6	110.7	128.3	139.1	157.3	171.5	220.1	308.6	419.3	596.2
82.5°	80.3	81.0	87.8	101.3	114.8	121.5	125.6	138.4	177.6	221.5	292.4
85°	57.4	54.7	58.7	64.1	74.9	68.9	73.6	77.6	94.5	114.1	209.3
87.5°	25.7	20.3	23.6	26.3	23.6	16.2	23.6	19.6	24.3	47.9	54.0
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	0°
2.5°	1118.1	1114.1	1114.1	1113.4	1114.1	1112.7	1110.0	1110.0	1112.0	1111.4	1111.4	2.5°
5°	1141.8	1136.3	1135.0	1134.3	1134.3	1130.9	1126.9	1124.9	1124.2	1121.5	1119.5	5°
7.5°	1172.8	1169.4	1171.5	1167.4	1166.1	1165.4	1160.0	1155.9	1149.9	1147.2	1137.0	7.5°
10°	1198.5	1196.4	1201.8	1201.2	1201.8	1201.8	1194.4	1190.4	1181.6	1176.9	1164.0	10°
12.5°	1220.7	1222.1	1232.2	1232.2	1234.3	1237.0	1232.9	1224.1	1220.7	1216.0	1202.5	12.5°
15°	1277.5	1282.9	1290.3	1302.4	1305.8	1306.5	1309.9	1302.4	1293.7	1281.5	1265.3	15°
17.5°	1354.4	1365.2	1390.2	1407.8	1411.2	1414.5	1412.5	1411.2	1394.9	1384.8	1367.9	17.5°
20°	1451.0	1477.3	1512.4	1536.7	1547.5	1548.9	1562.4	1552.9	1538.1	1517.8	1493.5	20°
22.5°	1559.0	1602.9	1647.5	1683.3	1704.2	1713.6	1727.8	1714.3	1694.7	1682.6	1650.2	22.5°
25°	1706.9	1754.8	1806.1	1834.5	1887.8	1903.4	1911.5	1907.4	1887.2	1895.9	1866.2	25°
27.5°	1909.4	1950.6	2022.9	2058.7	2108.6	2137.7	2131.6	2165.3	2171.4	2192.4	2195.7	27.5°
30°	2130.2	2198.4	2295.7	2367.9	2444.2	2493.5	2532.6	2562.4	2596.8	2654.9	2690.0	30°
32.5°	2368.6	2467.2	2591.4	2744.7	2906.7	3039.0	3188.3	3213.9	3290.9	3268.6	3253.8	32.5°
35°	2633.9	2758.2	2917.5	3118.7	3354.4	3573.1	3716.9	3789.2	3819.6	3836.4	3733.8	35°
37.5°	2989.1	3157.2	3334.8	3554.2	3734.5	3939.1	4104.5	4284.1	4366.5	4327.3	4130.8	37.5°
40°	3382.7	3540.0	3780.4	3960.0	4172.7	4509.6	4733.8	4949.8	5017.4	4887.0	4579.2	40°
42.5°	3777.7	3993.8	4254.4	4509.6	4754.0	5059.2	5356.3	5569.7	5643.9	5421.1	5055.8	42.5°
45°	4129.5	4406.3	4712.8	4974.8	5316.5	5715.5	6079.4	6250.9	6237.4	5879.6	5468.4	45°
47.5°	4436.0	4795.2	5140.9	5494.0	5838.4	6288.7	6649.3	6846.5	6706.7	6330.6	5864.7	47.5°
50°	4689.2	5123.4	5540.6	5946.4	6369.1	6847.8	7195.5	7377.8	7165.1	6689.1	6168.6	50°
52.5°	4881.6	5419.8	5900.5	6354.2	6859.3	7376.5	7685.7	7795.8	7464.3	6966.6	6396.1	52.5°
55°	5063.3	5671.6	6203.7	6718.8	7347.4	7811.3	8101.0	8080.7	7652.6	7087.5	6538.6	55°
57.5°	5200.3	5886.3	6452.8	7039.6	7716.8	8212.4	8379.8	8246.1	7731.0	7123.3	6579.8	57.5°
60°	5373.2	6053.8	6674.3	7329.2	8067.9	8487.2	8509.5	8269.8	7708.7	7055.8	6521.7	60°
62.5°	5483.9	6158.4	6815.4	7527.7	8335.3	8641.8	8482.4	8167.8	7580.4	6889.0	6388.7	62.5°
63°	5494.7	6168.6	6826.9	7547.3	8373.1	8648.5	8457.5	8121.9	7542.6	6843.1	6353.6	63°
65°	5446.1	6139.5	6774.2	7512.2	8382.5	8568.9	8274.5	7933.5	7333.9	6608.8	6147.0	65°
67.5°	5106.5	5827.6	6433.2	7125.3	8017.9	8121.2	7826.2	7455.5	6892.4	6103.7	5695.3	67.5°
70°	4498.1	5183.5	5612.9	6255.7	7040.9	7164.5	6900.5	6613.5	6113.2	5454.2	5115.3	70°
72.5°	3623.8	4296.9	4554.9	5047.1	5670.9	5643.9	5458.3	5422.5	5159.1	4606.2	4402.3	72.5°
75°	2708.9	3349.6	3458.3	3658.9	4007.3	3998.5	4041.7	4195.6	4327.3	4000.5	3739.2	75°
77.5°	1786.6	2423.9	2491.5	2725.1	2821.6	3086.3	3396.9	3783.8	3975.5	3841.8	3521.1	77.5°
80°	988.5	1658.3	1644.8	1735.9	1906.7	2291.6	2762.2	3336.8	3720.3	3624.4	3273.3	80°
82.5°	513.8	1047.9	1032.4	1048.6	1207.2	1530.7	1888.5	2358.4	2754.8	2763.6	2645.4	82.5°
85°	382.2	752.2	796.7	833.2	938.5	1051.3	1116.8	1267.3	1484.7	1687.3	1759.6	85°
87.5°	140.4	451.7	562.4	604.3	607.0	592.8	482.8	531.4	483.4	571.9	798.8	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°
1116.8	1116.8	1116.8	1116.8	1116.8	1116.8	1116.8
1112.7	1112.7	1112.0	1113.4	1114.1	1116.1	1115.4
1117.4	1115.4	1113.4	1112.0	1110.7	1111.4	1110.0
1129.6	1122.8	1117.4	1112.7	1108.7	1108.0	1103.9
1156.6	1144.5	1134.3	1126.9	1118.8	1114.7	1107.3
1191.0	1177.5	1164.7	1153.9	1144.5	1139.1	1133.6
1251.1	1231.6	1216.0	1204.5	1195.1	1189.0	1183.6
1340.3	1316.0	1292.3	1270.0	1267.3	1253.2	1253.2
1463.1	1430.1	1399.7	1380.8	1372.0	1353.1	1353.1
1633.3	1600.9	1555.6	1532.7	1534.7	1518.5	1525.9
1853.4	1826.4	1779.8	1770.4	1770.4	1752.8	1726.5
2183.6	2174.1	2122.8	2135.6	2108.6	2043.1	1972.2
2673.8	2673.8	2574.5	2502.9	2440.8	2338.9	2214.0
3164.6	3100.5	2948.6	2827.0	2698.1	2542.1	2381.4
3579.2	3408.4	3254.4	3105.9	2912.1	2744.7	2519.1
3928.9	3766.9	3590.7	3364.5	3136.9	2903.3	2613.7
4362.4	4165.3	3900.6	3616.3	3336.8	3015.4	2679.8
4758.8	4511.6	4177.4	3817.5	3461.7	3103.2	2711.6
5131.5	4812.8	4400.2	3968.1	3563.0	3157.2	2725.1
5482.6	5055.2	4575.1	4075.5	3632.5	3186.2	2721.7
5714.2	5232.7	4685.2	4140.3	3674.4	3196.4	2712.2
5859.3	5341.4	4750.0	4176.1	3695.3	3198.4	2711.6
5941.0	5402.9	4785.1	4201.0	3718.3	3210.5	2727.8
6004.5	5451.5	4824.3	4243.6	3773.0	3267.3	2793.3
6064.6	5579.1	4926.2	4321.9	3868.2	3373.3	2937.1
6089.6	5821.5	5133.5	4466.4	4001.2	3543.4	3161.3
6087.5	5867.4	5193.6	4506.2	4036.3	3588.6	3218.6
6013.9	6013.3	5467.0	4696.6	4199.7	3798.0	3458.3
5795.9	6086.2	5769.5	4947.8	4453.6	4143.0	3818.9
5450.8	5997.7	5810.7	5014.0	4633.8	4459.6	4059.3
4856.7	5575.1	5425.2	4731.8	4572.4	4521.8	4065.3
3928.3	4481.9	4417.8	4042.4	4101.1	4205.1	3631.2
3164.6	3147.1	3137.6	3001.2	3251.1	3462.4	2699.4
2643.4	2177.5	2022.2	1969.5	2381.4	2543.5	1675.2
2471.2	1956.0	1569.1	1503.0	1784.5	1871.0	1010.1
1888.5	1899.3	1644.1	1409.1	1388.2	1270.7	740.0
924.3	939.9	993.2	906.8	777.8	655.6	232.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)