

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: P146058

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146058  
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-E05-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11366.2 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G3

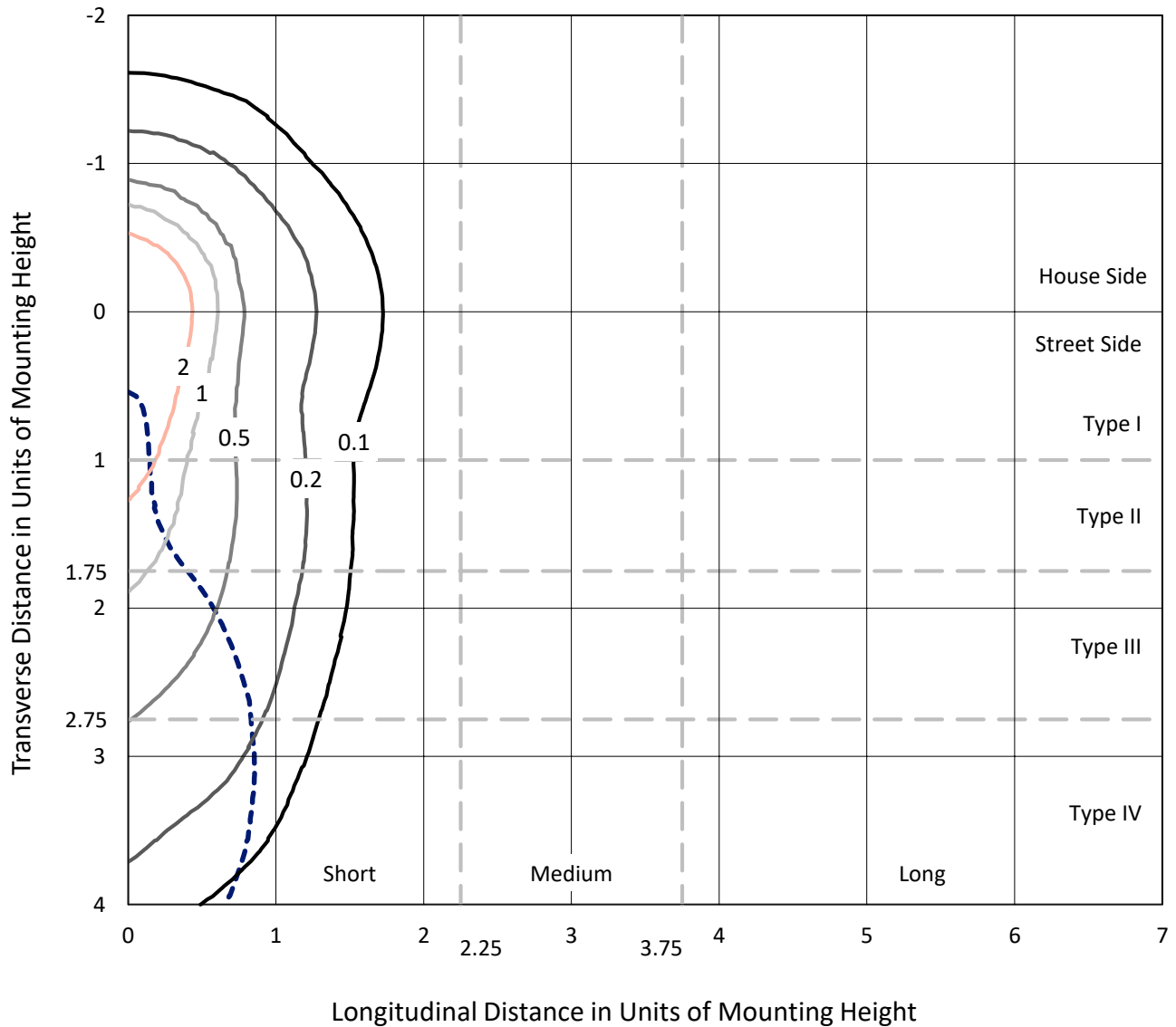
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

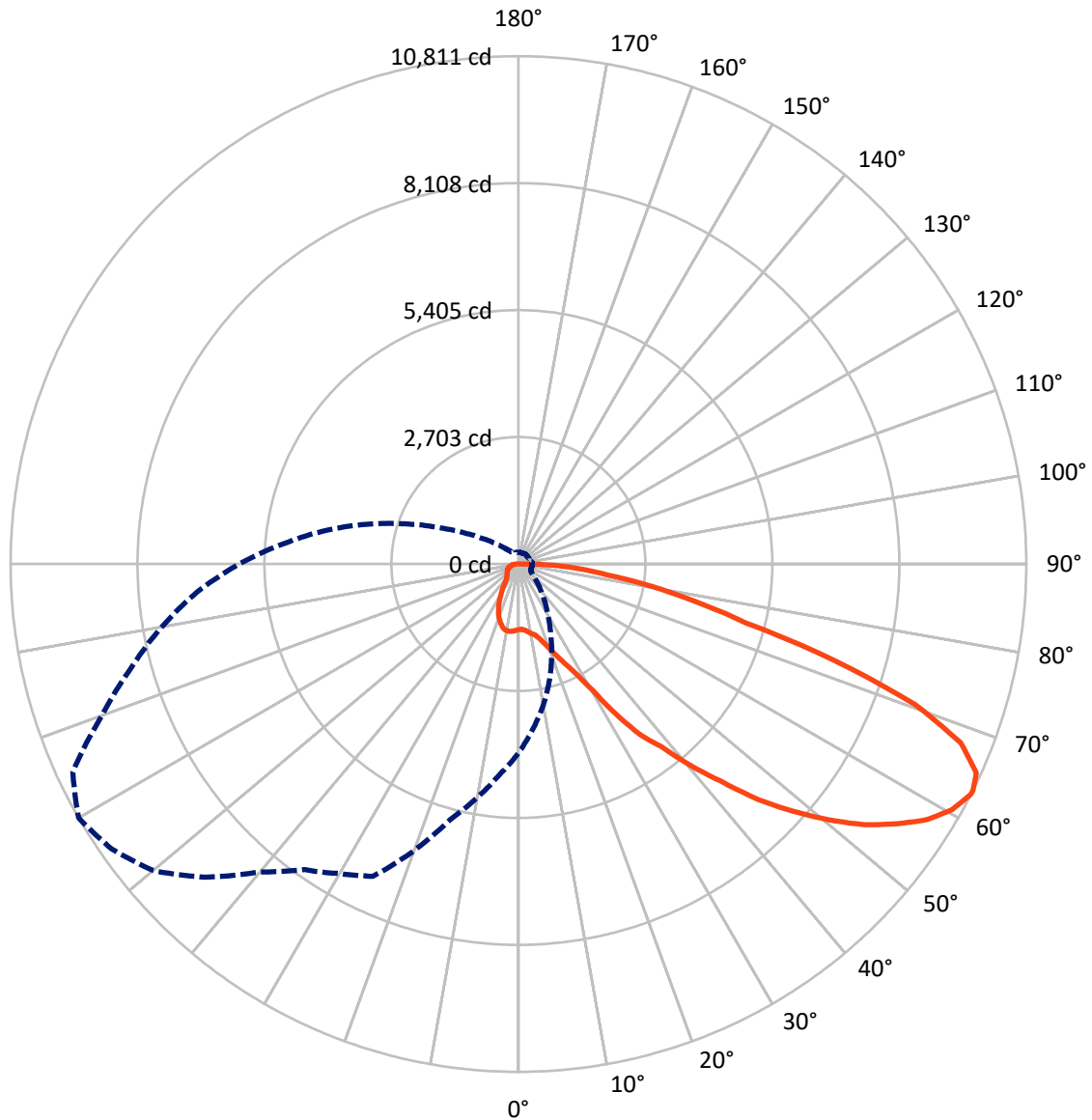
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	2379.3	0.0	2379.3
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	8986.9	0.0	8986.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	11366.2	0.0	11366.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	1.2
10°-20°	427.9	3.8
20°-30°	756.7	6.7
30°-40°	1194.6	10.5
40°-50°	1756.7	15.5
50°-60°	2314.0	20.4
60°-70°	2579.2	22.7
70°-80°	1694.6	14.9
80°-90°	505.3	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11366.2	100.0
0°-180°	11366.2	100.0

**Coefficient of Utilization**



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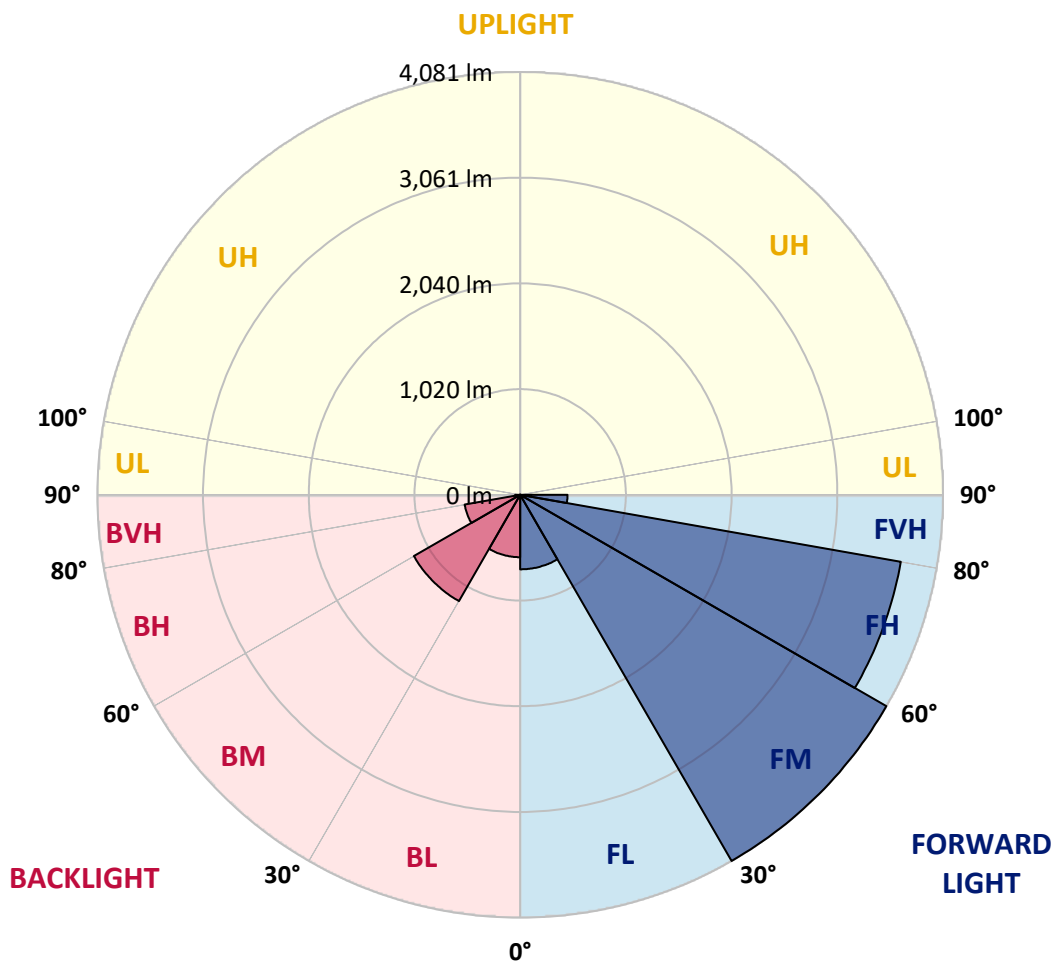
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

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

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1394.3	1396.8	1396.8	1394.3	1396.8	1396.0	1396.0	1398.5	1399.3	1403.6	1401.0
5°	1387.5	1388.4	1389.2	1387.5	1388.4	1388.4	1390.1	1392.6	1393.4	1398.5	1396.0
7.5°	1379.9	1381.6	1378.2	1379.1	1381.6	1385.0	1385.0	1388.4	1394.3	1396.8	1396.0
10°	1384.1	1382.5	1379.9	1379.1	1380.8	1381.6	1383.3	1389.2	1394.3	1396.8	1401.0
12.5°	1417.1	1412.0	1409.5	1408.6	1409.5	1407.8	1413.7	1415.4	1417.1	1420.4	1418.7
15°	1479.5	1472.8	1468.5	1464.3	1473.6	1469.4	1469.4	1464.3	1455.9	1443.2	1427.2
17.5°	1566.4	1558.9	1555.5	1553.8	1554.6	1547.0	1531.8	1507.4	1477.8	1444.1	1412.8
20°	1691.4	1703.2	1698.1	1675.3	1666.9	1633.1	1585.0	1534.4	1482.9	1428.9	1377.4
22.5°	1907.4	1900.7	1877.9	1821.3	1770.7	1694.7	1608.6	1526.8	1450.8	1372.3	1304.8
25°	2158.1	2101.5	2037.4	1926.0	1809.5	1684.6	1560.5	1463.5	1362.2	1276.1	1195.1
27.5°	2465.3	2342.9	2179.2	1997.7	1823.9	1657.6	1510.7	1382.5	1266.8	1174.8	1084.5
30°	2767.4	2563.2	2335.3	2094.8	1860.2	1635.7	1441.5	1293.0	1159.6	1041.5	950.3
32.5°	2976.8	2729.5	2445.9	2148.8	1863.5	1600.2	1365.6	1188.3	1038.1	919.1	809.4
35°	3148.9	2840.0	2484.7	2140.4	1809.5	1517.5	1256.7	1060.1	900.5	777.3	681.1
37.5°	3267.1	2896.6	2482.2	2091.4	1713.3	1385.8	1131.8	931.8	783.2	668.4	579.8
40°	3349.8	2914.3	2449.3	2007.9	1602.7	1258.4	998.4	816.1	686.2	596.7	532.6
42.5°	3389.5	2902.5	2400.3	1928.5	1493.0	1155.4	898.0	738.5	633.0	565.5	518.2
45°	3406.3	2873.8	2345.5	1850.9	1403.6	1066.8	846.5	714.9	632.1	573.9	522.4
47.5°	3402.1	2842.6	2296.5	1786.7	1350.4	1043.2	856.7	746.9	663.4	590.8	525.0
50°	3390.3	2813.9	2265.3	1763.1	1349.5	1078.6	913.2	800.9	699.7	606.0	522.4
52.5°	3389.5	2811.3	2282.2	1790.9	1398.5	1158.8	998.4	863.4	735.1	622.9	523.3
55°	3409.7	2856.9	2353.9	1866.1	1516.7	1271.1	1094.7	930.1	774.8	634.7	520.7
57.5°	3491.6	2970.8	2489.8	2034.0	1668.6	1407.8	1187.5	979.9	790.0	631.3	508.9
60°	3671.4	3170.9	2699.1	2271.2	1863.5	1532.7	1242.4	996.8	783.2	611.0	483.6
62.5°	3951.6	3460.4	2986.0	2504.1	2036.6	1607.8	1255.0	983.2	756.2	577.3	452.4
63°	4023.3	3527.0	3044.3	2552.2	2066.1	1615.4	1254.2	978.2	748.6	568.8	444.8
65°	4322.9	3813.2	3278.1	2710.9	2145.4	1630.6	1234.8	946.1	714.9	529.2	410.2
67.5°	4773.6	4128.8	3510.2	2858.6	2189.3	1603.6	1174.0	866.8	627.9	460.0	358.7
70°	5074.1	4338.1	3648.6	2906.7	2137.8	1480.4	1034.7	726.7	513.1	379.0	306.4
72.5°	5081.7	4150.7	3461.2	2656.9	1845.8	1221.3	810.2	549.4	399.2	308.1	264.2
75°	4539.0	3507.6	2829.1	2181.7	1420.4	863.4	569.7	400.9	306.4	254.0	228.7
77.5°	3374.3	2559.0	2041.6	1467.7	922.5	559.6	396.7	297.1	243.1	210.2	191.6
80°	2093.9	1599.4	1239.0	877.8	552.8	372.2	290.3	236.3	204.2	175.6	160.4
82.5°	1262.6	895.5	699.7	530.0	353.6	268.4	223.7	199.2	173.0	147.7	135.9
85°	925.0	640.6	469.3	327.5	218.6	177.2	157.0	151.9	134.2	113.9	107.2
87.5°	291.2	305.5	317.3	193.3	105.5	80.2	68.4	80.2	76.8	54.0	59.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1405.2	1408.6	1406.1	1406.1	1404.4	1403.6	1409.5	1407.8	1409.5	1408.6	1410.3
5°	1400.2	1402.7	1401.0	1402.7	1401.0	1401.0	1408.6	1408.6	1412.0	1413.7	1417.9
7.5°	1401.9	1402.7	1401.9	1404.4	1402.7	1401.0	1405.2	1407.8	1413.7	1418.7	1423.0
10°	1407.8	1410.3	1409.5	1409.5	1404.4	1401.0	1403.6	1405.2	1411.2	1413.7	1418.7
12.5°	1422.1	1418.7	1412.0	1407.8	1396.0	1389.2	1385.8	1384.1	1388.4	1391.7	1394.3
15°	1418.7	1400.2	1385.0	1372.3	1354.6	1343.6	1335.2	1334.3	1335.2	1336.0	1338.6
17.5°	1384.1	1358.8	1328.4	1312.4	1292.2	1280.3	1274.4	1270.2	1269.4	1271.1	1275.3
20°	1334.3	1297.2	1263.5	1235.6	1213.7	1195.1	1199.3	1190.0	1194.2	1196.8	1204.4
22.5°	1258.4	1206.9	1168.1	1134.3	1108.2	1088.7	1088.7	1080.3	1082.0	1089.6	1099.7
25°	1135.2	1087.1	1031.4	1007.7	978.2	964.7	962.1	960.5	967.2	976.5	982.4
27.5°	1023.8	957.9	903.1	871.8	840.6	844.0	827.1	837.2	844.8	852.4	859.2
30°	873.5	819.5	769.7	738.5	701.4	702.2	704.7	706.4	713.2	723.3	736.8
32.5°	729.2	671.0	624.6	590.8	568.8	562.1	552.8	568.0	576.4	586.6	600.1
35°	610.2	549.4	510.6	481.1	468.4	459.1	456.6	454.9	462.5	467.6	478.5
37.5°	525.0	483.6	454.9	433.8	422.0	411.9	409.3	407.6	406.8	405.1	411.9
40°	490.4	457.4	433.0	413.6	402.6	396.7	394.1	390.8	387.4	383.2	382.3
42.5°	480.2	444.8	416.1	396.7	388.2	387.4	387.4	385.7	382.3	376.4	372.2
45°	476.0	433.0	400.1	384.9	379.0	379.8	379.8	379.8	377.3	371.4	364.6
47.5°	468.4	418.6	384.9	372.2	369.7	371.4	373.0	373.0	371.4	366.3	358.7
50°	454.1	396.7	361.2	349.4	348.6	349.4	349.4	351.1	349.4	345.2	338.4
52.5°	443.1	379.8	343.5	334.2	334.2	333.4	332.5	332.5	331.7	328.3	323.2
55°	433.0	368.8	335.9	328.3	330.0	330.0	328.3	327.5	324.1	319.9	314.8
57.5°	418.6	357.0	328.3	323.2	324.9	324.1	323.2	322.4	319.0	314.0	307.2
60°	393.3	335.9	313.1	309.7	312.3	313.1	316.5	317.3	315.7	309.7	300.5
62.5°	365.4	309.7	292.9	290.3	292.9	295.4	297.9	296.2	296.2	290.3	281.9
63°	356.2	305.5	287.0	287.0	289.5	292.0	293.7	292.0	292.9	286.1	277.7
65°	335.1	290.3	276.0	276.8	279.4	281.0	281.9	281.9	281.0	276.0	268.4
67.5°	299.6	268.4	259.9	264.2	267.5	268.4	268.4	270.1	268.4	265.0	258.3
70°	267.5	247.3	241.4	246.4	248.1	249.0	249.0	249.0	247.3	243.9	238.0
72.5°	243.1	232.9	232.1	231.3	232.1	229.6	229.6	227.9	223.7	221.1	216.1
75°	216.1	211.0	211.8	211.0	209.3	208.5	204.2	202.6	197.5	194.1	187.4
77.5°	185.7	186.5	185.7	186.5	188.2	189.1	183.1	178.9	174.7	171.3	168.0
80°	154.5	156.1	154.5	156.1	157.0	157.0	151.1	144.3	140.9	143.5	144.3
82.5°	137.6	137.6	130.8	132.5	130.8	128.3	124.1	121.5	119.0	117.3	121.5
85°	108.9	109.7	111.4	109.7	106.3	103.8	99.6	96.2	93.7	96.2	102.1
87.5°	65.0	70.1	67.5	67.5	66.7	66.7	63.3	61.6	59.1	69.2	74.3
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1409.5	1412.0	1412.8	1412.0	1412.8	1414.5	1407.8	1414.5	1415.4	1410.3	1412.0
5°	1421.3	1425.5	1431.4	1431.4	1435.6	1438.2	1434.8	1444.1	1445.8	1444.9	1449.1
7.5°	1429.7	1435.6	1443.2	1447.4	1455.0	1458.4	1460.9	1469.4	1471.1	1474.5	1477.8
10°	1428.9	1437.3	1444.1	1455.9	1465.2	1471.9	1477.0	1486.3	1489.6	1494.7	1497.2
12.5°	1404.4	1413.7	1426.3	1443.2	1460.1	1471.1	1484.6	1498.1	1503.1	1509.9	1514.1
15°	1349.5	1357.1	1374.9	1396.8	1419.6	1447.4	1466.9	1488.0	1497.2	1504.0	1509.9
17.5°	1277.8	1284.6	1300.6	1320.0	1350.4	1377.4	1406.9	1439.0	1455.0	1462.6	1465.2
20°	1211.1	1221.3	1225.5	1248.3	1258.4	1285.4	1310.7	1346.2	1366.4	1379.9	1388.4
22.5°	1106.5	1111.5	1133.5	1142.8	1150.4	1167.2	1198.5	1229.7	1256.7	1278.6	1285.4
25°	990.8	1004.3	1016.2	1023.8	1041.5	1042.3	1067.6	1089.6	1123.4	1144.5	1161.3
27.5°	863.4	883.7	890.4	895.5	909.0	925.0	934.3	956.2	975.7	1000.1	1030.5
30°	735.1	754.5	768.0	775.6	788.3	803.5	810.2	824.6	849.9	876.9	900.5
32.5°	615.3	635.5	642.3	666.8	670.1	684.5	689.5	712.3	726.7	749.5	777.3
35°	498.0	519.1	539.3	552.8	568.0	567.2	580.7	601.8	614.4	638.1	656.6
37.5°	417.8	430.4	444.8	460.0	476.9	489.5	502.2	511.5	521.6	537.6	554.5
40°	382.3	385.7	391.6	400.9	412.7	422.0	431.3	438.9	446.5	459.1	470.1
42.5°	368.0	365.4	365.4	363.8	368.0	373.0	380.6	383.2	395.0	402.6	406.8
45°	357.9	351.9	347.7	342.7	341.0	342.7	346.9	352.8	360.4	362.9	362.9
47.5°	351.9	342.7	335.9	328.3	324.1	324.1	326.6	330.8	335.1	335.9	335.1
50°	331.7	322.4	314.0	307.2	303.8	303.8	304.7	310.6	311.4	309.7	310.6
52.5°	316.5	307.2	298.8	292.9	288.6	289.5	292.0	294.6	297.1	295.4	293.7
55°	307.2	296.2	288.6	281.9	276.8	278.5	281.0	284.4	288.6	286.1	283.6
57.5°	298.8	289.5	280.2	273.5	267.5	269.2	271.8	276.8	281.9	276.8	273.5
60°	291.2	281.9	272.6	265.9	259.1	260.8	264.2	269.2	273.5	266.7	262.5
62.5°	272.6	264.2	257.4	254.0	249.8	252.4	254.9	260.8	259.1	252.4	247.3
63°	269.2	260.8	254.9	251.5	248.1	251.5	252.4	258.3	255.7	249.0	244.8
65°	259.1	252.4	246.4	243.1	239.7	241.4	241.4	243.9	240.5	235.5	232.1
67.5°	249.8	242.2	236.3	229.6	226.2	224.5	223.7	222.8	220.3	217.7	216.9
70°	229.6	224.5	219.4	213.5	208.5	205.1	203.4	201.7	200.0	199.2	198.3
72.5°	207.6	203.4	198.3	195.0	190.7	188.2	184.0	183.1	181.5	179.8	178.9
75°	184.0	178.9	177.2	173.9	171.3	169.6	166.3	165.4	163.7	161.2	160.4
77.5°	162.9	161.2	158.7	157.8	153.6	151.1	149.4	148.5	146.9	145.2	143.5
80°	145.2	144.3	142.6	141.8	139.3	135.9	134.2	135.0	132.5	131.7	129.1
82.5°	130.8	131.7	131.7	129.1	126.6	122.4	120.7	123.2	121.5	118.2	114.8
85°	111.4	110.6	111.4	110.6	105.5	101.3	99.6	101.3	100.4	95.4	94.5
87.5°	79.3	78.5	76.8	81.9	75.1	60.8	62.5	70.9	68.4	65.8	64.1
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: P146058

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1415.4	1412.8	1414.5	1415.4	1412.8	1418.7	1412.8	1413.7	1415.4	1410.3	1409.5
5°	1452.5	1452.5	1459.3	1460.1	1459.3	1466.9	1466.0	1466.9	1465.2	1464.3	1460.9
7.5°	1482.9	1486.3	1491.3	1498.9	1501.5	1507.4	1509.1	1509.9	1513.3	1516.7	1515.0
10°	1504.8	1514.1	1518.3	1525.9	1533.5	1537.8	1542.0	1548.7	1551.3	1553.8	1550.4
12.5°	1520.0	1531.0	1537.8	1547.0	1556.3	1563.1	1570.7	1579.1	1587.5	1590.1	1585.9
15°	1512.4	1525.1	1535.2	1545.3	1559.7	1572.4	1586.7	1601.9	1612.9	1617.1	1612.0
17.5°	1465.2	1477.8	1493.0	1508.2	1523.4	1547.0	1567.3	1592.6	1610.3	1623.0	1624.7
20°	1400.2	1407.8	1429.7	1444.9	1469.4	1497.2	1527.6	1557.2	1577.4	1600.2	1613.7
22.5°	1304.0	1319.2	1343.6	1369.8	1394.3	1430.6	1462.6	1501.5	1536.1	1567.3	1596.8
25°	1186.7	1207.8	1236.4	1272.7	1304.8	1343.6	1390.1	1433.1	1491.3	1540.3	1603.6
27.5°	1060.1	1098.9	1138.5	1176.5	1212.0	1255.9	1304.0	1352.1	1418.7	1497.2	1580.0
30°	940.2	972.3	1022.1	1066.0	1107.3	1161.3	1211.1	1264.3	1327.6	1420.4	1514.1
32.5°	815.3	841.5	880.3	934.3	982.4	1045.7	1089.6	1152.9	1226.3	1324.2	1430.6
35°	686.2	722.5	753.7	790.8	827.1	890.4	956.2	1026.3	1110.7	1215.3	1331.8
37.5°	572.2	595.0	610.2	648.2	680.3	734.3	811.1	895.5	988.3	1094.7	1219.6
40°	477.7	492.0	508.9	534.2	561.3	610.2	681.1	775.6	872.7	979.0	1103.9
42.5°	412.7	422.0	423.7	443.1	468.4	516.5	573.1	660.0	767.2	878.6	1003.5
45°	368.0	368.0	367.1	375.6	395.8	437.2	488.7	566.3	668.4	784.9	914.9
47.5°	336.8	339.3	338.4	341.8	355.3	385.7	432.1	498.0	590.8	704.7	835.6
50°	313.1	316.5	317.3	318.2	323.2	348.6	388.2	441.4	524.1	633.0	764.7
52.5°	294.6	295.4	295.4	294.6	296.2	310.6	343.5	392.5	469.3	567.2	693.8
55°	284.4	285.3	285.3	285.3	285.3	294.6	318.2	357.9	419.5	511.5	626.2
57.5°	272.6	272.6	274.3	274.3	274.3	277.7	294.6	327.5	374.7	448.2	550.3
60°	262.5	265.0	268.4	269.2	268.4	268.4	276.8	298.8	330.0	383.2	469.3
62.5°	247.3	250.7	254.9	256.6	257.4	255.7	259.9	269.2	287.8	315.7	373.9
63°	244.8	248.1	251.5	253.2	254.0	252.4	255.7	263.3	278.5	301.3	353.6
65°	233.8	238.0	238.8	239.7	238.8	238.0	237.2	237.2	241.4	249.8	277.7
67.5°	218.6	221.1	221.1	222.8	218.6	216.9	215.2	213.5	211.0	211.8	222.0
70°	200.9	202.6	201.7	200.9	199.2	196.6	195.0	192.4	187.4	185.7	190.7
72.5°	180.6	182.3	182.3	182.3	178.9	177.2	175.6	173.9	172.2	173.9	175.6
75°	162.0	162.0	163.7	162.9	160.4	158.7	157.8	157.0	157.0	157.0	156.1
77.5°	144.3	143.5	143.5	140.9	139.3	138.4	140.1	140.9	140.1	138.4	137.6
80°	129.1	124.9	120.7	117.3	116.5	118.2	119.8	124.9	122.4	122.4	120.7
82.5°	109.7	100.4	94.5	95.4	92.8	93.7	95.4	101.3	99.6	100.4	103.8
85°	87.8	79.3	70.1	71.7	71.7	70.1	74.3	76.0	77.6	81.9	78.5
87.5°	61.6	54.0	44.7	38.8	40.5	42.2	43.9	42.2	37.1	38.8	38.0
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: P146058

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
2.5°	1407.8	1408.6	1408.6	1402.7	1401.0	1402.7	1401.9	1401.9	1396.8	1397.6	1396.0
5°	1459.3	1460.9	1455.9	1451.7	1445.8	1444.9	1444.1	1440.7	1437.3	1430.6	1427.2
7.5°	1514.1	1506.5	1504.8	1497.2	1494.7	1488.0	1482.9	1477.8	1473.6	1470.2	1467.7
10°	1548.7	1542.8	1541.1	1527.6	1523.4	1515.0	1509.9	1504.0	1498.9	1493.9	1493.0
12.5°	1580.0	1569.8	1563.9	1545.3	1536.9	1527.6	1523.4	1518.3	1516.7	1515.8	1519.2
15°	1604.4	1590.1	1579.1	1562.2	1555.5	1550.4	1551.3	1548.7	1558.9	1564.8	1575.7
17.5°	1620.5	1614.6	1612.0	1599.4	1603.6	1603.6	1615.4	1621.3	1639.9	1655.1	1670.3
20°	1628.9	1639.9	1661.0	1665.2	1675.3	1686.3	1704.0	1714.1	1733.6	1755.5	1776.6
22.5°	1636.5	1682.9	1726.0	1758.0	1780.8	1806.1	1818.8	1839.9	1853.4	1869.4	1901.5
25°	1678.7	1756.3	1832.3	1873.7	1927.7	1964.0	1992.7	2013.8	2037.4	2050.9	2087.2
27.5°	1666.9	1765.6	1866.9	1942.9	2027.3	2095.6	2156.4	2196.9	2227.3	2276.2	2306.6
30°	1612.9	1727.6	1850.0	1958.1	2076.2	2187.6	2293.1	2387.7	2468.7	2534.5	2579.2
32.5°	1536.1	1667.7	1811.2	1944.6	2095.6	2244.2	2396.1	2540.4	2678.0	2786.9	2855.2
35°	1450.0	1591.8	1750.4	1908.3	2089.7	2283.8	2488.9	2683.0	2882.2	3056.1	3192.8
37.5°	1345.3	1498.9	1672.8	1855.9	2064.4	2297.3	2555.6	2819.8	3073.8	3337.1	3529.6
40°	1235.6	1385.8	1566.4	1775.8	2016.3	2290.6	2607.1	2949.7	3317.7	3657.0	3949.9
42.5°	1141.9	1288.8	1477.8	1684.6	1943.7	2265.3	2641.7	3066.2	3519.4	3959.2	4348.2
45°	1049.9	1206.9	1397.6	1616.2	1899.0	2255.1	2686.4	3167.5	3684.9	4206.5	4702.7
47.5°	977.3	1132.6	1325.1	1559.7	1862.7	2249.2	2728.6	3262.0	3819.9	4390.4	4978.7
50°	908.1	1056.7	1244.0	1491.3	1824.7	2240.0	2753.9	3337.1	3925.4	4534.8	5174.5
52.5°	837.2	991.7	1174.0	1413.7	1774.9	2221.4	2761.5	3396.2	4034.3	4673.2	5357.7
55°	765.5	920.0	1102.3	1350.4	1707.4	2185.1	2755.6	3439.3	4148.2	4819.2	5524.8
57.5°	677.7	829.6	1020.4	1270.2	1620.5	2112.5	2726.9	3457.8	4219.1	4955.9	5692.7
60°	579.0	722.5	903.1	1158.0	1514.1	2007.9	2662.8	3431.7	4251.2	5046.2	5870.8
62.5°	454.9	579.8	746.1	999.3	1359.7	1856.8	2522.7	3316.0	4173.5	5023.4	5947.6
63°	427.1	547.8	719.1	957.1	1314.1	1804.5	2481.3	3276.4	4138.9	5002.3	5938.3
65°	325.8	415.2	557.0	769.7	1110.7	1563.1	2263.6	3051.9	3921.2	4792.2	5792.3
67.5°	240.5	287.0	373.9	516.5	781.5	1216.2	1855.1	2635.8	3458.7	4277.3	5295.2
70°	199.2	216.9	257.4	330.8	483.6	806.9	1310.7	2006.2	2780.1	3484.8	4403.9
72.5°	178.1	190.7	209.3	242.2	305.5	473.5	852.4	1302.3	1936.1	2545.5	3321.9
75°	159.5	168.0	183.1	202.6	231.3	296.2	450.7	772.3	1183.3	1715.0	2278.8
77.5°	140.1	148.5	163.7	178.9	197.5	225.3	279.4	439.7	708.1	1001.0	1398.5
80°	121.5	125.8	138.4	160.4	173.9	196.6	214.4	275.1	385.7	524.1	745.2
82.5°	100.4	101.3	109.7	126.6	143.5	151.9	157.0	173.0	222.0	276.8	365.4
85°	71.7	68.4	73.4	80.2	93.7	86.1	92.0	97.1	118.2	142.6	261.6
87.5°	32.1	25.3	29.5	32.9	29.5	20.3	29.5	24.5	30.4	59.9	67.5
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: P146058  
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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	0°
2.5°	1397.6	1392.6	1392.6	1391.7	1392.6	1390.9	1387.5	1387.5	1390.1	1389.2	1389.2	2.5°
5°	1427.2	1420.4	1418.7	1417.9	1417.9	1413.7	1408.6	1406.1	1405.2	1401.9	1399.3	5°
7.5°	1466.0	1461.8	1464.3	1459.3	1457.6	1456.7	1450.0	1444.9	1437.3	1433.9	1421.3	7.5°
10°	1498.1	1495.6	1502.3	1501.5	1502.3	1502.3	1493.0	1488.0	1477.0	1471.1	1455.0	10°
12.5°	1525.9	1527.6	1540.3	1540.3	1542.8	1546.2	1541.1	1530.2	1525.9	1520.0	1503.1	12.5°
15°	1596.8	1603.6	1612.9	1628.1	1632.3	1633.1	1637.3	1628.1	1617.1	1601.9	1581.6	15°
17.5°	1693.0	1706.5	1737.8	1759.7	1763.9	1768.2	1765.6	1763.9	1743.7	1731.0	1709.9	17.5°
20°	1813.7	1846.7	1890.5	1920.9	1934.4	1936.1	1953.0	1941.2	1922.6	1897.3	1866.9	20°
22.5°	1948.8	2003.6	2059.3	2104.1	2130.2	2142.0	2159.8	2142.9	2118.4	2103.2	2062.7	22.5°
25°	2133.6	2193.5	2257.7	2293.1	2359.8	2379.2	2389.3	2384.3	2359.0	2369.9	2332.8	25°
27.5°	2386.8	2438.3	2528.6	2573.3	2635.8	2672.1	2664.5	2706.7	2714.3	2740.4	2744.7	27.5°
30°	2662.8	2748.0	2869.6	2959.9	3055.2	3116.9	3165.8	3202.9	3246.0	3318.6	3362.5	30°
32.5°	2960.7	3083.9	3239.2	3430.8	3633.4	3798.8	3985.3	4017.4	4113.6	4085.8	4067.2	32.5°
35°	3292.4	3447.7	3646.9	3898.4	4192.9	4466.4	4646.2	4736.5	4774.5	4795.6	4667.3	35°
37.5°	3736.3	3946.5	4168.5	4442.8	4668.1	4923.8	5130.6	5355.1	5458.1	5409.1	5163.5	37.5°
40°	4228.4	4425.0	4725.5	4950.0	5215.9	5637.0	5917.2	6187.3	6271.7	6108.8	5723.9	40°
42.5°	4722.1	4992.2	5318.0	5637.0	5942.5	6324.0	6695.4	6962.1	7054.9	6776.4	6319.8	42.5°
45°	5161.8	5507.9	5891.1	6218.5	6645.6	7144.4	7599.3	7813.7	7796.8	7349.5	6835.5	45°
47.5°	5545.0	5994.0	6426.1	6867.6	7298.0	7860.9	8311.6	8558.1	8383.4	7913.3	7330.9	47.5°
50°	5861.5	6404.2	6925.8	7433.0	7961.4	8559.8	8994.4	9222.3	8956.4	8361.4	7710.7	50°
52.5°	6102.1	6774.7	7375.6	7942.8	8574.1	9220.6	9607.1	9744.7	9330.3	8708.3	7995.1	52.5°
55°	6329.1	7089.5	7754.6	8398.6	9184.3	9764.1	10126.2	10100.9	9565.8	8859.4	8173.2	55°
57.5°	6500.4	7357.9	8066.0	8799.4	9646.0	10265.5	10474.8	10307.7	9663.7	8904.1	8224.7	57.5°
60°	6716.5	7567.2	8342.9	9161.5	10084.8	10609.0	10636.8	10337.2	9635.8	8819.7	8152.1	60°
62.5°	6854.9	7698.0	8519.2	9409.7	10419.1	10802.2	10603.1	10209.8	9475.5	8611.2	7985.8	62.5°
63°	6868.4	7710.7	8533.6	9434.1	10466.3	10810.7	10571.8	10152.4	9428.2	8553.8	7942.0	63°
65°	6807.6	7674.4	8467.8	9390.2	10478.1	10711.1	10343.1	9916.9	9167.4	8261.0	7683.7	65°
67.5°	6383.1	7284.5	8041.5	8906.6	10022.4	10151.5	9782.7	9319.3	8615.5	7629.7	7119.1	67.5°
70°	5622.7	6479.3	7016.1	7819.6	8801.1	8955.6	8625.6	8266.9	7641.5	6817.8	6394.1	70°
72.5°	4529.7	5371.2	5693.6	6308.8	7088.7	7054.9	6822.8	6778.1	6448.9	5757.7	5502.8	72.5°
75°	3386.1	4187.0	4322.9	4573.6	5009.1	4998.1	5052.1	5244.6	5409.1	5000.6	4674.0	75°
77.5°	2233.2	3029.9	3114.3	3406.3	3527.0	3857.9	4246.1	4729.7	4969.4	4802.3	4401.4	77.5°
80°	1235.6	2072.8	2056.0	2169.9	2383.4	2864.5	3452.8	4171.0	4650.4	4530.5	4091.7	80°
82.5°	642.3	1309.9	1290.5	1310.7	1509.1	1913.3	2360.6	2948.1	3443.5	3454.5	3306.8	82.5°
85°	477.7	940.2	995.9	1041.5	1173.1	1314.1	1396.0	1584.2	1855.9	2109.1	2199.4	85°
87.5°	175.6	564.6	703.0	755.4	758.7	741.0	603.5	664.2	604.3	714.9	998.4	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°
1396.0	1396.0	1396.0	1396.0	1396.0	1396.0	1396.0
1390.9	1390.9	1390.1	1391.7	1392.6	1395.1	1394.3
1396.8	1394.3	1391.7	1390.1	1388.4	1389.2	1387.5
1412.0	1403.6	1396.8	1390.9	1385.8	1385.0	1379.9
1445.8	1430.6	1417.9	1408.6	1398.5	1393.4	1384.1
1488.8	1471.9	1455.9	1442.4	1430.6	1423.8	1417.1
1563.9	1539.4	1520.0	1505.7	1493.9	1486.3	1479.5
1675.3	1644.9	1615.4	1587.5	1584.2	1566.4	1566.4
1828.9	1787.6	1749.6	1726.0	1715.0	1691.4	1691.4
2041.6	2001.1	1944.6	1915.9	1918.4	1898.1	1907.4
2316.8	2283.0	2224.8	2212.9	2212.9	2191.0	2158.1
2729.5	2717.7	2653.5	2669.5	2635.8	2553.9	2465.3
3342.2	3342.2	3218.1	3128.7	3051.0	2923.6	2767.4
3955.8	3875.6	3685.7	3533.8	3372.6	3177.6	2976.8
4474.0	4260.5	4068.0	3882.4	3640.1	3430.8	3148.9
4911.2	4708.6	4488.3	4205.6	3921.2	3629.2	3267.1
5453.0	5206.6	4875.7	4520.4	4171.0	3769.3	3349.8
5948.4	5639.5	5221.8	4771.9	4327.1	3879.0	3389.5
6414.3	6016.0	5500.3	4960.1	4453.7	3946.5	3406.3
6853.2	6319.0	5718.9	5094.3	4540.7	3982.8	3402.1
7142.7	6540.9	5856.5	5175.4	4593.0	3995.5	3390.3
7324.2	6676.8	5937.5	5220.1	4619.2	3998.0	3389.5
7426.3	6753.6	5981.4	5251.3	4647.9	4013.2	3409.7
7505.6	6814.4	6030.3	5304.5	4716.2	4084.1	3491.6
7580.7	6973.9	6157.8	5402.4	4835.2	4216.6	3671.4
7612.0	7276.9	6416.9	5583.0	5001.5	4429.3	3951.6
7609.4	7334.3	6492.0	5632.8	5045.4	4485.8	4023.3
7517.4	7516.6	6833.8	5870.8	5249.6	4747.4	4322.9
7244.8	7607.7	7211.9	6184.8	5567.0	5178.7	4773.6
6813.5	7497.2	7263.4	6267.5	5792.3	5574.6	5074.1
6070.8	6968.8	6781.5	5914.7	5715.5	5652.2	5081.7
4910.3	5602.4	5522.2	5053.0	5126.4	5256.4	4539.0
3955.8	3933.8	3922.0	3751.5	4063.8	4328.0	3374.3
3304.2	2721.9	2527.8	2461.9	2976.8	3179.3	2093.9
3089.0	2445.0	1961.4	1878.7	2230.7	2338.7	1262.6
2360.6	2374.1	2055.1	1761.4	1735.2	1588.4	925.0
1155.4	1174.8	1241.5	1133.5	972.3	819.5	291.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

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