

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: P145771

Luminaire Tested: **LDRL-SLL-E06-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145771
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-E06-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (126) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16582.5 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

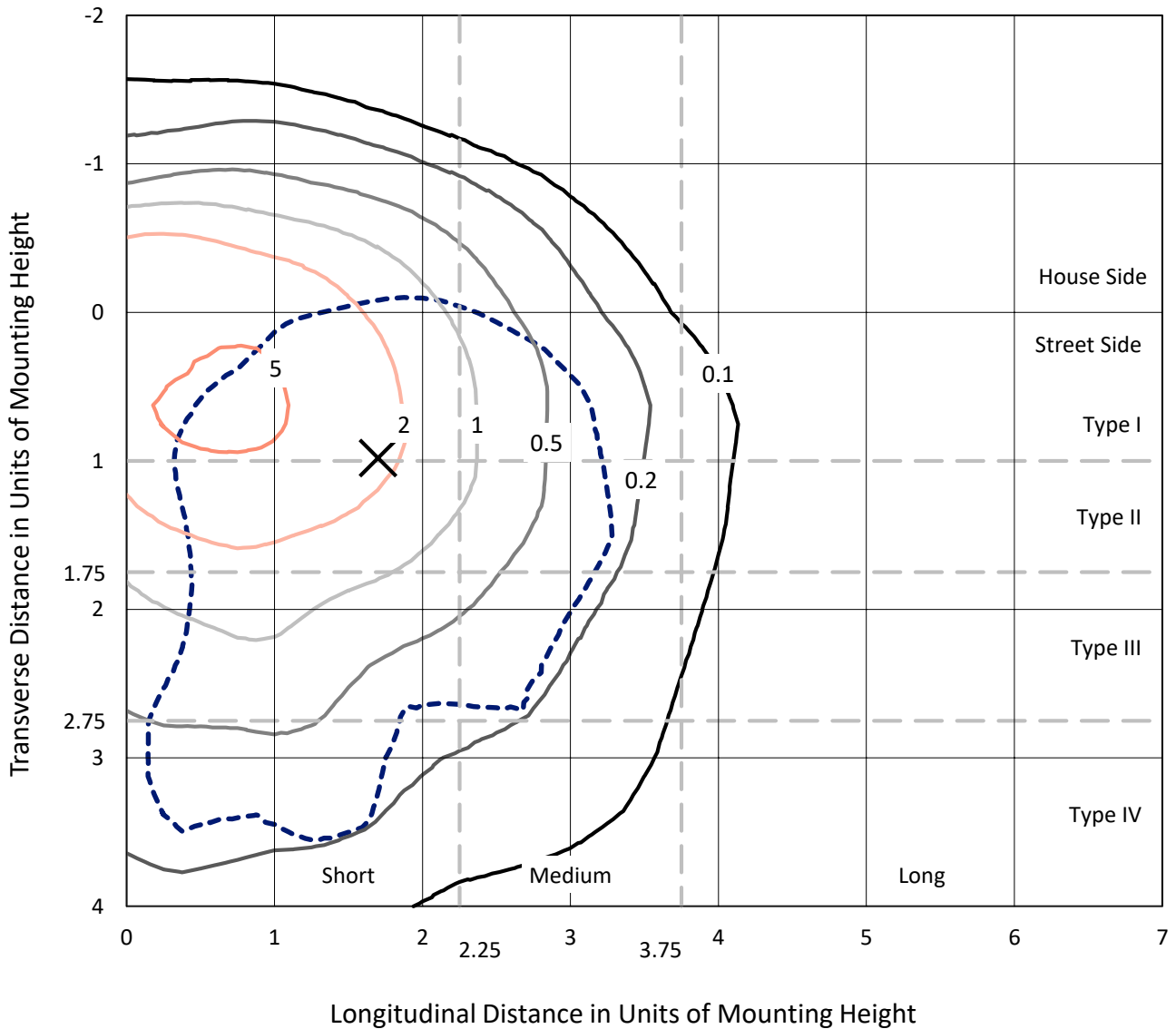
Input Watts (W): 150.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

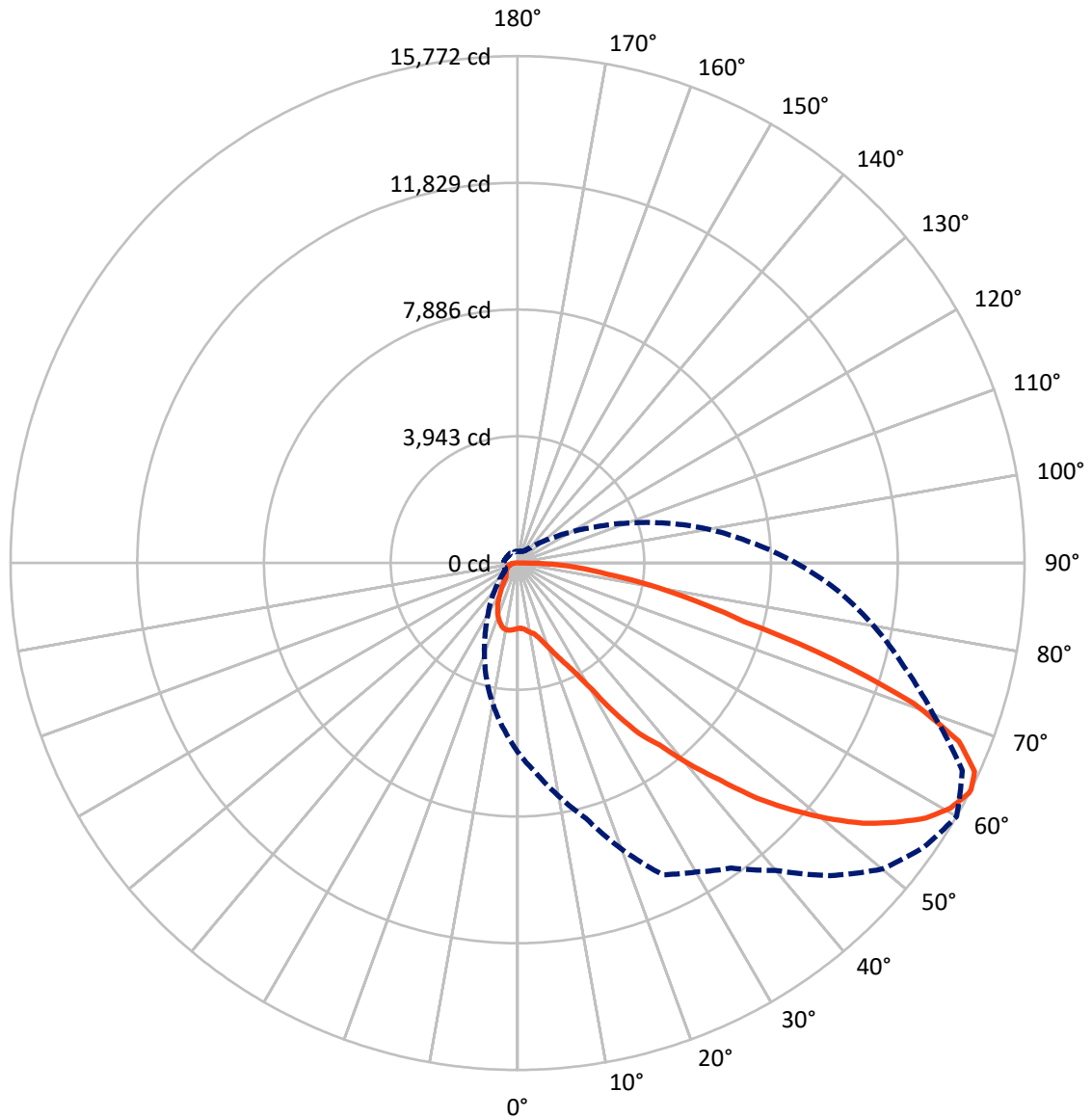
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3471.2	0.0	3471.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	13111.3	0.0	13111.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	16582.5	0.0	16582.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.0	1.2
10°-20°	624.3	3.8
20°-30°	1104.0	6.7
30°-40°	1742.9	10.5
40°-50°	2562.9	15.5
50°-60°	3376.0	20.4
60°-70°	3762.9	22.7
70°-80°	2472.3	14.9
80°-90°	737.3	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°	16582.5	100.0
0°-180°	16582.5	100.0



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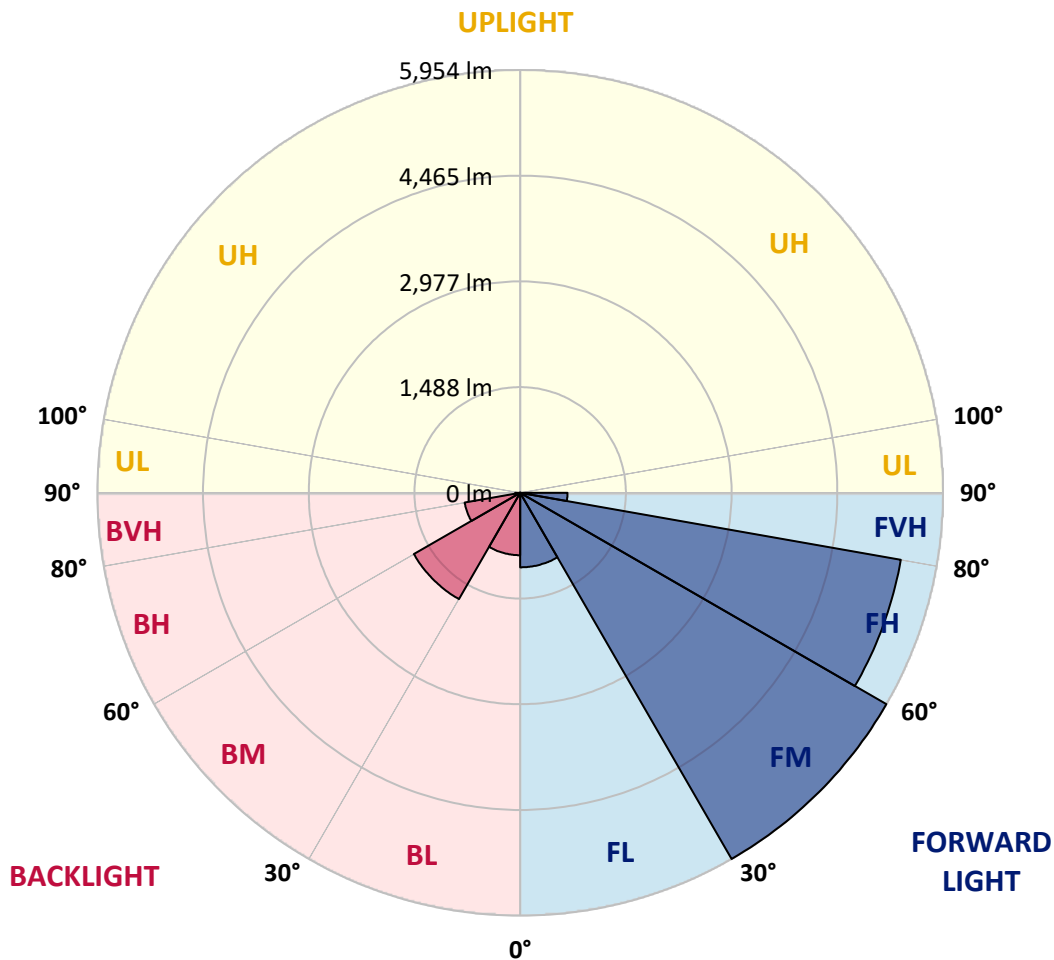
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1049.5	6.3			
FM	(30°-60°)	5953.6	35.9			
FH	(60°-80°)	5441.9	32.8			G3/7500
FVH	(80°-90°)	666.3	4.0			G4/750
BL	(0°-30°)	878.7	5.3	B2/1000		
BM	(30°-60°)	1728.2	10.4	B2/2500		
BH	(60°-80°)	793.3	4.8	B2/1000		G2/1000
BVH	(80°-90°)	70.9	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2034.2	2035.4	2031.7	2030.5	2028.0	2029.2	2029.2	2026.8	2026.8	2028.0	2024.3
5°	2024.3	2026.8	2025.5	2028.0	2030.5	2034.2	2037.8	2041.5	2045.2	2050.2	2051.4
7.5°	2013.2	2020.6	2021.8	2029.2	2037.8	2047.7	2060.0	2073.6	2092.0	2096.9	2108.0
10°	2019.4	2032.9	2040.3	2055.1	2068.6	2087.1	2109.3	2122.8	2146.2	2154.8	2170.8
12.5°	2067.4	2077.2	2087.1	2104.3	2124.0	2147.4	2172.1	2193.0	2217.6	2226.2	2232.4
15°	2158.5	2168.4	2179.4	2196.7	2217.6	2245.9	2281.6	2307.5	2337.1	2359.2	2375.2
17.5°	2285.3	2285.3	2311.2	2316.1	2356.8	2399.9	2444.2	2494.7	2525.5	2543.9	2573.5
20°	2467.6	2467.6	2502.1	2518.1	2552.5	2607.9	2668.3	2723.7	2768.0	2805.0	2832.1
22.5°	2782.8	2769.3	2798.8	2795.1	2837.0	2919.5	2978.6	3009.4	3068.5	3090.6	3126.3
25°	3148.5	3196.5	3228.5	3228.5	3245.8	3330.7	3380.0	3403.4	3457.6	3441.6	3478.5
27.5°	3596.7	3726.0	3845.4	3894.7	3871.3	3964.9	3982.1	4004.3	3998.1	3959.9	3948.9
30°	4037.5	4265.3	4451.2	4564.5	4695.0	4876.1	4876.1	4905.6	4841.6	4735.7	4672.9
32.5°	4342.9	4635.9	4920.4	5155.6	5377.2	5654.3	5771.2	5933.8	5960.9	6001.5	5861.1
35°	4594.1	5005.3	5310.7	5664.1	5935.0	6215.7	6527.3	6809.2	6996.4	6965.6	6910.2
37.5°	4766.5	5294.7	5720.7	6135.7	6548.2	6869.6	7165.1	7533.3	7891.6	7963.0	7812.8
40°	4887.1	5499.1	6085.2	6595.0	7113.4	7596.1	7955.6	8350.9	8912.3	9150.0	9026.9
42.5°	4945.0	5659.2	6313.0	6961.9	7618.2	8227.7	8678.4	9220.2	9886.3	10292.7	10157.2
45°	4969.6	5757.7	6497.7	7236.5	8024.6	8776.9	9358.1	9972.5	10722.4	11375.0	11399.6
47.5°	4963.5	5810.6	6624.5	7432.3	8343.5	9218.9	9998.4	10695.3	11544.9	12230.8	12485.7
50°	4946.2	5829.1	6700.9	7550.5	8544.2	9542.8	10420.7	11249.4	12198.8	13066.8	13454.7
52.5°	4945.0	5832.8	6739.1	7615.8	8662.4	9741.0	10685.5	11664.4	12704.8	13612.3	14216.9
55°	4974.6	5855.0	6780.9	7661.3	8726.4	9853.1	10834.4	11924.2	12925.2	13955.9	14736.5
57.5°	5094.0	5958.4	6880.7	7738.9	8797.8	9941.7	10950.2	11999.3	12990.5	14098.7	15038.2
60°	5356.3	6151.7	7054.3	7881.7	8983.8	10174.5	11059.8	11893.4	12867.4	14058.1	15081.3
62.5°	5765.1	6462.0	7296.8	8145.2	9361.8	10616.5	11105.3	11650.8	12563.2	13824.1	14895.4
63°	5869.7	6544.5	7360.9	8217.9	9471.4	10700.2	11101.6	11586.8	12479.5	13755.1	14811.6
65°	6306.9	6926.2	7658.9	8565.1	9970.1	10966.2	10967.4	11210.0	12052.2	13374.7	14468.1
67.5°	6964.4	7555.4	8121.8	9023.2	10521.7	11099.2	10569.7	10386.2	11131.2	12569.4	13596.3
70°	7402.7	8132.9	8450.6	9143.8	10596.8	10937.9	9940.5	9328.5	9946.7	11148.4	12060.8
72.5°	7413.8	8246.2	8338.5	8629.1	9893.7	10167.1	8856.9	8028.2	8400.1	9408.6	9888.8
75°	6622.1	7668.7	7479.1	7372.0	8056.6	8173.5	7163.9	6819.1	7295.6	7891.6	7651.5
77.5°	4922.8	6314.2	5928.8	5473.2	5722.0	5739.2	5771.2	6421.4	7006.2	7250.1	6900.4
80°	3054.9	4638.4	4342.9	3591.8	3687.8	3971.0	4820.6	5969.5	6609.8	6784.6	6085.2
82.5°	1842.1	3412.0	3254.4	2740.9	2861.6	3567.2	4506.7	4824.3	5039.8	5023.8	4301.0
85°	1349.5	2317.4	2531.6	2569.8	2998.3	3463.7	3444.0	3208.8	3077.1	2707.7	2311.2
87.5°	424.8	1195.6	1418.5	1653.7	1811.3	1714.0	1685.7	1456.7	1042.9	881.6	969.1
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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2024.3	2029.2	2031.7	2030.5	2031.7	2031.7	2039.1	2036.6	2039.1	2037.8	2045.2
5°	2055.1	2062.5	2068.6	2068.6	2069.9	2072.3	2082.2	2082.2	2087.1	2096.9	2101.9
7.5°	2115.4	2125.3	2126.5	2129.0	2136.4	2132.7	2138.8	2141.3	2145.0	2149.9	2156.1
10°	2178.2	2191.8	2191.8	2190.5	2191.8	2181.9	2185.6	2178.2	2179.4	2186.8	2194.2
12.5°	2248.4	2255.8	2250.9	2247.2	2247.2	2228.7	2226.2	2216.4	2211.5	2212.7	2215.2
15°	2388.8	2382.6	2381.4	2375.2	2353.1	2339.5	2329.7	2298.9	2282.9	2274.3	2259.5
17.5°	2575.9	2579.6	2573.5	2567.3	2535.3	2489.7	2470.0	2436.8	2414.6	2392.5	2365.4
20°	2849.3	2824.7	2822.2	2802.5	2758.2	2694.1	2646.1	2591.9	2561.2	2529.1	2500.8
22.5°	3151.0	3125.1	3107.9	3069.7	3004.4	2923.2	2843.1	2774.2	2727.4	2704.0	2684.3
25°	3485.9	3471.1	3442.8	3345.5	3293.8	3200.2	3112.8	3045.1	2992.1	2972.4	2937.9
27.5°	3887.3	3898.4	3845.4	3754.3	3689.1	3557.3	3482.2	3365.2	3320.9	3249.5	3205.1
30°	4618.7	4547.3	4457.4	4318.3	4186.5	4009.2	3884.8	3762.9	3697.7	3601.6	3483.4
32.5°	5814.3	5542.2	5300.9	5005.3	4725.8	4499.3	4319.5	4165.6	4065.8	3907.0	3706.3
35°	6778.5	6516.2	6117.2	5687.5	5320.6	5030.0	4803.4	4658.1	4458.6	4205.0	3914.4
37.5°	7485.2	7183.6	6810.5	6481.7	6081.5	5757.7	5451.1	5149.4	4868.7	4484.5	4113.9
40°	8632.8	8224.0	7609.6	7221.7	6894.2	6455.8	6168.9	5762.6	5335.3	4840.3	4303.5
42.5°	9768.1	9226.3	8669.8	8224.0	7758.6	7283.3	6889.3	6343.8	5776.2	5134.6	4473.4
45°	11086.9	10423.2	9695.5	9072.4	8594.7	8035.6	7530.8	6861.0	6136.9	5376.0	4621.2
47.5°	12126.1	11468.6	10647.3	10019.3	9375.3	8744.9	8089.8	7263.6	6405.4	5573.0	4759.1
50°	13122.2	12488.1	11615.1	10844.3	10104.3	9343.3	8551.6	7549.3	6615.9	5726.9	4868.7
52.5°	14016.2	13452.2	12509.0	11588.0	10760.6	9883.9	8902.5	7816.5	6817.9	5885.7	4954.9
55°	14773.5	14245.2	13399.3	12252.9	11313.4	10343.1	9233.7	8060.3	7030.9	6052.0	5017.7
57.5°	15282.0	14976.6	14072.8	12837.8	11767.8	10734.7	9483.7	8305.3	7230.3	6155.4	5044.7
60°	15518.4	15477.8	14713.1	13366.0	12171.7	11040.1	9798.9	8565.1	7362.1	6202.2	5006.6
62.5°	15469.2	15759.7	15200.7	13728.1	12429.0	11230.9	10000.8	8677.2	7328.9	6088.9	4837.9
63°	15423.6	15772.1	15269.7	13763.8	12449.9	11249.4	10020.5	8663.6	7298.1	6038.4	4780.0
65°	15089.9	15626.8	15286.9	13699.7	12353.9	11196.5	9931.9	8450.6	6991.5	5720.7	4452.5
67.5°	14272.3	14810.4	14622.0	12994.2	11732.1	10627.6	9312.5	7725.3	6240.4	5046.0	3845.4
70°	12584.2	13065.6	12840.3	11408.2	10236.0	9452.9	8203.1	6425.1	5084.1	4056.0	2926.9
72.5°	9954.0	10292.7	10341.9	9204.2	8306.5	7836.2	6608.5	4846.5	3713.7	2824.7	1899.9
75°	7370.7	7291.9	7307.9	6672.6	6306.9	6108.6	4940.1	3324.6	2502.1	1726.3	1126.7
77.5°	6194.8	5628.4	5145.7	4969.6	4543.6	4420.5	3258.1	2040.3	1460.4	1033.1	641.5
80°	5037.4	4179.1	3477.3	3165.7	2999.5	3024.1	1802.7	1087.3	764.7	562.7	401.4
82.5°	3444.0	2791.4	2201.6	1912.3	1882.7	1911.0	937.0	533.2	403.9	323.8	252.4
85°	2036.6	1917.2	1711.5	1519.5	1453.0	1371.7	696.9	381.7	208.1	172.4	141.6
87.5°	880.4	1081.1	1107.0	1102.0	1025.7	823.8	256.1	98.5	87.4	44.3	35.7
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°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2045.2	2046.5	2044.0	2046.5	2055.1	2055.1	2053.9	2056.3	2057.5	2064.9	2062.5
5°	2106.8	2108.0	2109.3	2117.9	2124.0	2131.4	2129.0	2131.4	2136.4	2137.6	2140.0
7.5°	2163.4	2170.8	2180.7	2184.4	2195.5	2197.9	2209.0	2210.2	2212.7	2207.8	2202.8
10°	2202.8	2210.2	2222.5	2228.7	2248.4	2250.9	2259.5	2261.9	2266.9	2263.2	2259.5
12.5°	2222.5	2228.7	2242.2	2254.6	2281.6	2290.3	2305.0	2313.7	2319.8	2316.1	2303.8
15°	2263.2	2261.9	2269.3	2279.2	2303.8	2319.8	2340.8	2351.8	2359.2	2353.1	2337.1
17.5°	2356.8	2339.5	2339.5	2333.4	2351.8	2355.5	2364.1	2370.3	2367.8	2349.4	2323.5
20°	2486.0	2460.2	2444.2	2429.4	2423.3	2392.5	2376.5	2354.3	2334.6	2301.3	2271.8
22.5°	2653.5	2635.0	2598.1	2564.9	2518.1	2455.3	2387.5	2329.7	2286.6	2241.0	2190.5
25°	2907.2	2865.3	2812.3	2733.5	2673.2	2562.4	2449.1	2339.5	2247.2	2175.8	2090.8
27.5°	3146.0	3057.4	2957.6	2834.5	2723.7	2575.9	2431.9	2305.0	2184.4	2069.9	1972.6
30°	3345.5	3191.6	3029.1	2856.7	2699.1	2520.5	2353.1	2209.0	2072.3	1936.9	1844.5
32.5°	3495.7	3274.1	3057.4	2837.0	2642.4	2433.1	2241.0	2087.1	1932.0	1789.1	1682.0
35°	3631.2	3332.0	3048.8	2784.0	2553.8	2322.3	2115.4	1943.0	1773.1	1620.4	1497.3
37.5°	3728.5	3351.7	3011.8	2707.7	2440.5	2186.8	1962.7	1779.3	1597.0	1441.9	1306.4
40°	3803.6	3341.8	2941.6	2590.7	2285.3	2021.8	1802.7	1610.6	1428.3	1273.2	1131.6
42.5°	3854.1	3304.9	2835.7	2457.7	2156.1	1880.2	1666.0	1464.0	1281.8	1119.3	962.9
45°	3919.3	3290.1	2770.5	2358.0	2039.1	1760.8	1531.8	1334.8	1145.1	975.2	826.2
47.5°	3980.9	3281.5	2717.5	2275.5	1933.2	1652.4	1425.9	1219.0	1028.2	861.9	726.5
50°	4017.8	3267.9	2662.1	2175.8	1815.0	1541.6	1324.9	1115.6	923.5	764.7	644.0
52.5°	4028.9	3240.9	2589.5	2062.5	1712.8	1446.8	1221.5	1012.2	827.5	684.6	572.6
55°	4020.3	3187.9	2491.0	1970.1	1608.1	1342.1	1116.8	913.6	746.2	612.0	522.1
57.5°	3978.4	3082.0	2364.1	1853.1	1488.7	1210.4	988.8	802.8	653.8	546.7	477.8
60°	3884.8	2929.3	2209.0	1689.4	1317.5	1054.0	844.7	684.6	559.0	481.4	435.9
62.5°	3680.4	2708.9	1983.7	1457.9	1088.5	845.9	663.7	545.5	460.5	419.9	392.8
63°	3620.1	2632.6	1917.2	1396.3	1049.1	799.1	623.1	515.9	439.6	406.3	384.2
65°	3302.4	2280.4	1620.4	1123.0	812.7	605.8	475.3	405.1	364.5	352.2	346.0
67.5°	2706.5	1774.3	1140.2	753.6	545.5	418.7	350.9	323.8	309.1	307.8	311.5
70°	1912.3	1177.1	705.6	482.7	375.6	316.5	290.6	278.3	270.9	273.4	280.7
72.5°	1243.6	690.8	445.7	353.4	305.4	278.3	259.8	256.1	253.7	251.2	253.7
75°	657.5	432.2	337.4	295.5	267.2	245.0	232.7	227.8	229.0	229.0	229.0
77.5°	407.6	328.8	288.1	261.0	238.9	216.7	204.4	200.7	201.9	204.4	205.6
80°	312.8	286.9	253.7	234.0	201.9	183.5	177.3	176.1	178.5	178.5	182.2
82.5°	229.0	221.6	209.3	184.7	160.1	147.8	146.5	151.5	146.5	145.3	147.8
85°	134.2	125.6	136.7	117.0	107.1	99.7	104.7	114.5	119.4	113.3	110.8
87.5°	43.1	29.6	43.1	48.0	43.1	36.9	46.8	55.4	56.6	54.2	61.6
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: P145771

CATALOG NUMBER: LDRL-SLL-E06-E-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2061.2	2069.9	2061.2	2064.9	2063.7	2061.2	2064.9	2060.0	2057.5	2064.9	2063.7
5°	2138.8	2140.0	2129.0	2130.2	2129.0	2119.1	2119.1	2114.2	2108.0	2109.3	2106.8
7.5°	2201.6	2199.1	2190.5	2186.8	2175.8	2168.4	2163.4	2156.1	2151.1	2146.2	2143.7
10°	2249.6	2243.5	2237.3	2226.2	2215.2	2209.0	2195.5	2184.4	2180.7	2173.3	2168.4
12.5°	2291.5	2280.4	2270.6	2257.0	2243.5	2233.6	2217.6	2209.0	2202.8	2193.0	2185.6
15°	2314.9	2294.0	2275.5	2254.6	2239.8	2225.0	2206.5	2202.8	2194.2	2184.4	2170.8
17.5°	2286.6	2257.0	2222.5	2200.4	2178.2	2156.1	2137.6	2137.6	2133.9	2122.8	2099.4
20°	2228.7	2184.4	2143.7	2108.0	2085.9	2053.9	2042.8	2025.5	2013.2	1993.5	1964.0
22.5°	2133.9	2087.1	2034.2	1998.4	1960.3	1924.6	1902.4	1875.3	1865.5	1833.4	1794.0
25°	2028.0	1960.3	1903.6	1856.8	1803.9	1762.0	1731.2	1694.3	1669.7	1638.9	1589.6
27.5°	1902.4	1832.2	1768.2	1716.5	1661.1	1603.2	1546.5	1503.4	1459.1	1423.4	1395.1
30°	1767.0	1694.3	1615.5	1555.2	1491.1	1418.5	1371.7	1313.8	1279.3	1239.9	1203.0
32.5°	1589.6	1525.6	1433.3	1363.1	1284.3	1227.6	1189.5	1134.1	1093.4	1060.2	1039.2
35°	1395.1	1299.0	1206.7	1153.8	1099.6	1054.0	1001.1	958.0	930.9	896.4	877.9
37.5°	1183.3	1071.3	992.4	945.7	890.2	868.1	834.8	809.0	784.4	761.0	746.2
40°	993.7	890.2	818.8	779.4	742.5	717.9	696.9	685.8	669.8	651.4	640.3
42.5°	836.1	753.6	683.4	646.4	618.1	615.7	602.1	593.5	587.3	576.3	559.0
45°	712.9	637.8	577.5	547.9	535.6	536.9	536.9	529.5	529.5	525.8	514.7
47.5°	630.4	562.7	518.4	498.7	493.8	495.0	491.3	488.8	490.1	488.8	482.7
50°	566.4	508.5	471.6	464.2	463.0	461.7	456.8	453.1	451.9	454.4	453.1
52.5°	501.1	453.1	432.2	429.7	431.0	431.0	429.7	428.5	431.0	433.4	429.7
55°	464.2	429.7	416.2	416.2	416.2	416.2	415.0	413.7	417.4	421.1	415.0
57.5°	429.7	405.1	400.2	400.2	400.2	397.7	397.7	398.9	403.9	411.3	403.9
60°	403.9	391.6	391.6	392.8	391.6	386.6	382.9	382.9	389.1	398.9	392.8
62.5°	379.2	373.1	375.6	374.3	371.9	365.7	360.8	360.8	368.2	378.0	380.5
63°	373.1	368.2	370.6	369.4	366.9	362.0	357.1	357.1	363.2	373.1	376.8
65°	346.0	347.2	348.5	349.7	348.5	347.2	341.1	338.6	343.5	350.9	355.9
67.5°	314.0	316.5	318.9	325.1	322.6	322.6	318.9	316.5	317.7	321.4	325.1
70°	284.4	286.9	290.6	293.1	294.3	295.5	293.1	289.4	290.6	291.8	294.3
72.5°	256.1	258.6	261.0	266.0	266.0	266.0	263.5	261.0	262.3	264.7	267.2
75°	230.3	231.5	234.0	237.6	238.9	236.4	236.4	234.0	235.2	238.9	241.3
77.5°	204.4	201.9	203.2	205.6	209.3	209.3	210.6	209.3	211.8	214.3	216.7
80°	174.8	172.4	169.9	171.2	176.1	182.2	188.4	188.4	192.1	193.3	197.0
82.5°	139.1	136.7	135.4	139.1	137.9	146.5	160.1	167.5	172.4	177.3	179.8
85°	108.4	102.2	104.7	104.7	102.2	115.7	128.1	137.9	139.1	146.5	147.8
87.5°	64.0	61.6	59.1	56.6	65.3	78.8	89.9	93.6	96.0	99.7	103.4
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-SLL-E06-E-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2.5°	2053.9	2063.7	2061.2	2060.0	2061.2	2060.0	2056.3	2057.5	2055.1	2056.3	2053.9
5°	2093.3	2098.2	2094.5	2088.3	2088.3	2079.7	2073.6	2068.6	2062.5	2060.0	2055.1
7.5°	2131.4	2127.7	2122.8	2111.7	2105.6	2094.5	2085.9	2076.0	2069.9	2062.5	2053.9
10°	2154.8	2147.4	2137.6	2124.0	2106.8	2096.9	2084.6	2069.9	2062.5	2058.8	2050.2
12.5°	2165.9	2146.2	2130.2	2105.6	2080.9	2062.5	2048.9	2034.2	2030.5	2025.5	2019.4
15°	2140.0	2111.7	2071.1	2037.8	2005.8	1980.0	1968.9	1952.9	1949.2	1948.0	1946.7
17.5°	2052.6	2009.5	1970.1	1925.8	1897.5	1874.1	1864.2	1860.5	1854.4	1851.9	1853.1
20°	1912.3	1875.3	1835.9	1821.1	1787.9	1781.7	1767.0	1757.1	1746.0	1742.3	1736.2
22.5°	1748.5	1702.9	1678.3	1667.2	1653.7	1621.7	1614.3	1604.4	1589.6	1578.6	1576.1
25°	1557.6	1520.7	1519.5	1493.6	1482.5	1465.3	1445.6	1433.3	1424.6	1411.1	1401.2
27.5°	1363.1	1349.5	1326.1	1306.4	1299.0	1289.2	1259.6	1253.5	1243.6	1232.6	1221.5
30°	1182.1	1172.2	1150.1	1131.6	1120.5	1100.8	1072.5	1074.9	1055.2	1040.5	1030.6
32.5°	1006.0	998.6	977.7	972.7	937.0	927.2	897.6	875.5	855.8	841.0	828.7
35°	847.2	827.5	828.7	806.5	786.8	757.3	726.5	698.2	682.2	674.8	663.7
37.5°	732.6	714.2	695.7	671.1	648.9	628.0	609.5	600.9	591.0	593.5	594.7
40°	629.2	615.7	602.1	584.9	571.3	562.7	557.8	557.8	559.0	565.2	570.1
42.5°	555.3	544.2	536.9	530.7	533.2	533.2	536.9	543.0	549.2	557.8	562.7
45°	506.1	499.9	497.5	499.9	507.3	513.5	522.1	531.9	541.8	550.4	554.1
47.5°	476.5	472.8	472.8	479.0	490.1	499.9	513.5	523.3	534.4	541.8	544.2
50°	444.5	443.3	443.3	448.2	458.1	470.4	483.9	493.8	503.6	509.8	512.2
52.5°	426.0	422.3	421.1	427.3	435.9	448.2	461.7	471.6	479.0	483.9	485.1
55°	410.0	406.3	403.9	411.3	421.1	432.2	448.2	459.3	466.7	472.8	477.8
57.5°	396.5	392.8	390.3	398.9	408.8	422.3	435.9	448.2	458.1	465.4	470.4
60°	385.4	380.5	378.0	387.9	397.7	411.3	424.8	438.4	451.9	460.5	463.0
62.5°	371.9	368.2	364.5	370.6	375.6	385.4	397.7	411.3	423.6	432.2	432.2
63°	368.2	366.9	362.0	366.9	371.9	380.5	392.8	405.1	417.4	427.3	426.0
65°	352.2	352.2	349.7	354.6	359.5	368.2	378.0	391.6	402.6	410.0	411.3
67.5°	326.3	327.5	330.0	334.9	344.8	353.4	364.5	376.8	386.6	391.6	394.0
70°	296.7	299.2	304.1	311.5	320.1	327.5	334.9	347.2	355.9	360.8	363.2
72.5°	268.4	274.6	278.3	284.4	289.4	296.7	302.9	315.2	322.6	326.3	332.5
75°	242.6	247.5	250.0	253.7	258.6	261.0	268.4	273.4	283.2	288.1	295.5
77.5°	217.9	220.4	224.1	230.3	231.5	235.2	237.6	245.0	250.0	254.9	261.0
80°	195.8	198.2	203.2	206.9	208.1	210.6	211.8	210.6	209.3	205.6	210.6
82.5°	176.1	178.5	184.7	188.4	192.1	192.1	190.9	177.3	171.2	173.6	177.3
85°	145.3	147.8	153.9	161.3	162.5	161.3	162.5	149.0	140.4	136.7	140.4
87.5°	91.1	88.7	109.6	119.4	112.1	114.5	115.7	108.4	101.0	86.2	89.9
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-SLL-E06-E-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	0°
2.5°	2056.3	2047.7	2048.9	2051.4	2051.4	2055.1	2050.2	2044.0	2047.7	2041.5	2040.3	2.5°
5°	2055.1	2044.0	2044.0	2046.5	2044.0	2046.5	2042.8	2036.6	2040.3	2032.9	2031.7	5°
7.5°	2050.2	2044.0	2046.5	2048.9	2045.2	2046.5	2045.2	2036.6	2037.8	2034.2	2025.5	7.5°
10°	2047.7	2044.0	2048.9	2056.3	2056.3	2057.5	2053.9	2044.0	2037.8	2034.2	2026.8	10°
12.5°	2021.8	2026.8	2036.6	2053.9	2060.0	2069.9	2074.8	2069.9	2072.3	2067.4	2064.9	12.5°
15°	1948.0	1960.3	1976.3	2002.1	2020.6	2042.8	2069.9	2082.2	2105.6	2124.0	2136.4	15°
17.5°	1859.3	1867.9	1885.2	1914.7	1938.1	1982.4	2019.4	2061.2	2106.8	2156.1	2199.1	17.5°
20°	1749.7	1743.6	1770.6	1802.7	1843.3	1892.5	1946.7	2009.5	2084.6	2163.4	2238.6	20°
22.5°	1588.4	1588.4	1616.7	1654.9	1704.2	1760.8	1835.9	1903.6	2002.1	2116.7	2227.5	22.5°
25°	1403.7	1407.4	1427.1	1470.2	1504.7	1585.9	1656.1	1743.6	1861.8	1987.4	2135.1	25°
27.5°	1206.7	1231.3	1226.4	1272.0	1317.5	1397.6	1493.6	1582.3	1714.0	1848.2	2016.9	27.5°
30°	1028.2	1024.5	1023.2	1077.4	1123.0	1195.6	1274.4	1386.5	1519.5	1691.8	1886.4	30°
32.5°	806.5	820.1	829.9	861.9	911.2	978.9	1063.9	1180.8	1340.9	1514.5	1733.7	32.5°
35°	666.1	669.8	683.4	701.9	745.0	801.6	890.2	993.7	1134.1	1313.8	1546.5	35°
37.5°	597.2	600.9	615.7	632.9	663.7	705.6	765.9	845.9	975.2	1142.7	1359.4	37.5°
40°	575.0	578.7	587.3	603.4	631.7	667.4	715.4	777.0	870.5	1001.1	1190.7	40°
42.5°	565.2	565.2	566.4	578.7	607.0	648.9	700.6	756.0	825.0	923.5	1077.4	42.5°
45°	554.1	554.1	552.9	561.5	583.6	631.7	694.5	762.2	837.3	922.3	1042.9	45°
47.5°	544.2	541.8	539.3	543.0	561.5	610.7	683.4	765.9	861.9	967.8	1089.7	47.5°
50°	509.8	509.8	508.5	509.8	527.0	578.7	662.5	762.2	884.1	1020.8	1168.5	50°
52.5°	485.1	486.4	487.6	487.6	501.1	554.1	646.4	763.4	908.7	1072.5	1259.6	52.5°
55°	479.0	481.4	481.4	479.0	490.1	538.1	631.7	759.7	926.0	1130.4	1356.9	55°
57.5°	471.6	472.8	474.1	471.6	479.0	520.9	610.7	742.5	921.0	1152.5	1429.6	57.5°
60°	461.7	456.8	455.6	451.9	456.8	490.1	573.8	705.6	891.5	1142.7	1454.2	60°
62.5°	434.7	431.0	427.3	423.6	427.3	451.9	533.2	660.0	842.2	1103.3	1434.5	62.5°
63°	428.5	426.0	422.3	418.7	418.7	445.7	519.6	648.9	829.9	1092.2	1427.1	63°
65°	411.3	410.0	407.6	403.9	402.6	423.6	488.8	598.4	772.0	1042.9	1380.3	65°
67.5°	391.6	391.6	390.3	385.4	379.2	391.6	437.1	523.3	671.1	916.1	1264.6	67.5°
70°	363.2	363.2	362.0	359.5	352.2	360.8	390.3	447.0	552.9	748.6	1060.2	70°
72.5°	334.9	334.9	338.6	337.4	338.6	339.8	354.6	385.4	449.4	582.4	801.6	72.5°
75°	298.0	304.1	305.4	307.8	309.1	307.8	315.2	333.7	370.6	447.0	584.9	75°
77.5°	267.2	275.8	274.6	272.1	270.9	272.1	270.9	279.5	306.6	354.6	433.4	77.5°
80°	220.4	229.0	229.0	227.8	225.3	227.8	225.3	234.0	256.1	298.0	344.8	80°
82.5°	181.0	187.2	190.9	193.3	190.9	200.7	200.7	198.2	215.5	252.4	290.6	82.5°
85°	145.3	151.5	155.1	160.1	162.5	160.1	158.8	156.4	166.2	195.8	221.6	85°
87.5°	92.3	97.3	97.3	98.5	98.5	102.2	94.8	86.2	78.8	112.1	117.0	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°
2036.6	2036.6	2036.6	2036.6	2036.6	2036.6	2036.6
2036.6	2036.6	2037.8	2034.2	2037.8	2037.8	2034.2
2028.0	2025.5	2025.5	2024.3	2026.8	2025.5	2024.3
2020.6	2020.6	2015.7	2012.0	2010.8	2015.7	2013.2
2018.1	2015.7	2014.5	2012.0	2013.2	2016.9	2019.4
2062.5	2053.9	2056.3	2055.1	2056.3	2060.0	2067.4
2143.7	2143.7	2149.9	2136.4	2142.5	2148.7	2158.5
2234.9	2257.0	2268.1	2266.9	2269.3	2274.3	2285.3
2312.4	2382.6	2431.9	2444.2	2477.4	2484.8	2467.6
2346.9	2472.5	2583.3	2657.2	2739.7	2772.9	2782.8
2276.7	2457.7	2640.0	2809.9	2972.4	3066.0	3148.5
2204.1	2418.3	2660.9	2914.5	3179.3	3418.2	3596.7
2103.1	2386.3	2713.8	3056.2	3407.1	3739.5	4037.5
1992.3	2334.6	2718.8	3135.0	3568.4	3982.1	4342.9
1833.4	2213.9	2640.0	3122.6	3625.0	4143.4	4594.1
1651.2	2021.8	2499.6	3051.2	3621.3	4225.9	4766.5
1456.7	1835.9	2338.3	2929.3	3573.3	4251.8	4887.1
1310.1	1685.7	2178.2	2813.6	3501.9	4234.5	4945.0
1235.0	1556.4	2047.7	2700.3	3421.9	4192.7	4969.6
1249.8	1521.9	1970.1	2606.7	3350.4	4147.1	4963.5
1332.3	1573.6	1968.9	2572.2	3304.9	4105.2	4946.2
1456.7	1690.6	2040.3	2612.9	3329.5	4101.5	4945.0
1597.0	1854.4	2212.7	2722.5	3434.2	4168.0	4974.6
1732.5	2053.9	2434.3	2967.5	3632.4	4334.3	5094.0
1812.5	2236.1	2718.8	3313.5	3937.8	4626.1	5356.3
1831.0	2345.7	2971.2	3653.3	4356.4	5048.4	5765.1
1829.8	2356.8	3014.3	3723.5	4441.4	5145.7	5869.7
1801.4	2378.9	3130.0	3955.0	4782.5	5563.1	6306.9
1712.8	2339.5	3194.1	4170.5	5121.1	6023.6	6964.4
1509.6	2159.7	3119.0	4240.7	5323.0	6329.0	7402.7
1182.1	1781.7	2692.9	3876.2	5049.7	6055.7	7413.8
831.1	1259.6	2072.3	3183.0	4127.4	5117.4	6622.1
578.7	816.4	1345.8	2141.3	2978.6	3733.4	4922.8
423.6	543.0	806.5	1280.6	1807.6	2333.4	3054.9
326.3	391.6	515.9	773.3	1020.8	1306.4	1842.1
229.0	258.6	318.9	477.8	684.6	934.6	1349.5
99.7	117.0	153.9	282.0	463.0	445.7	424.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)