

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: P146045

Luminaire Tested: **LDRL-SLR-F03-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146045
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-F03-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6670.5 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

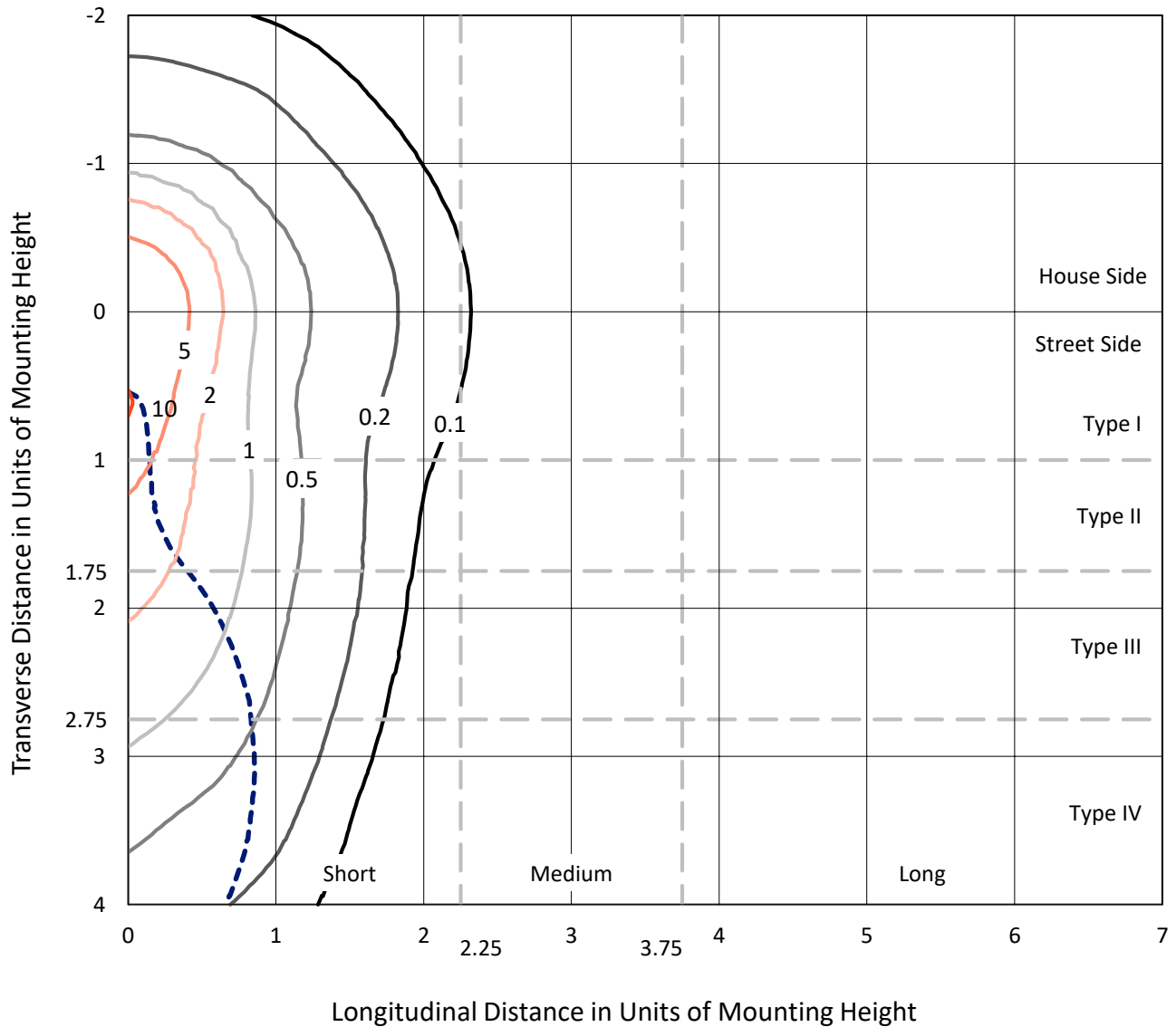
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

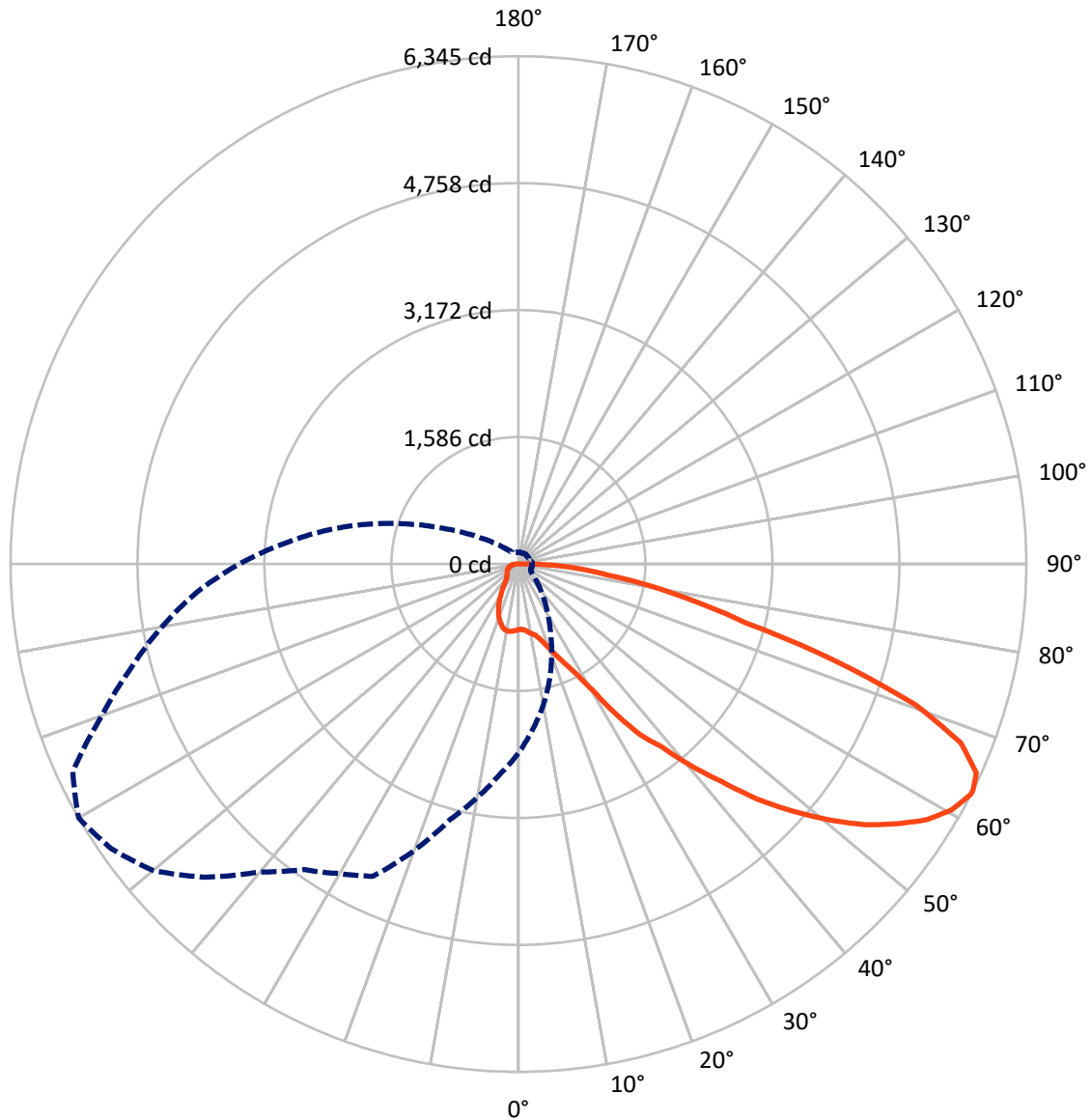
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.5 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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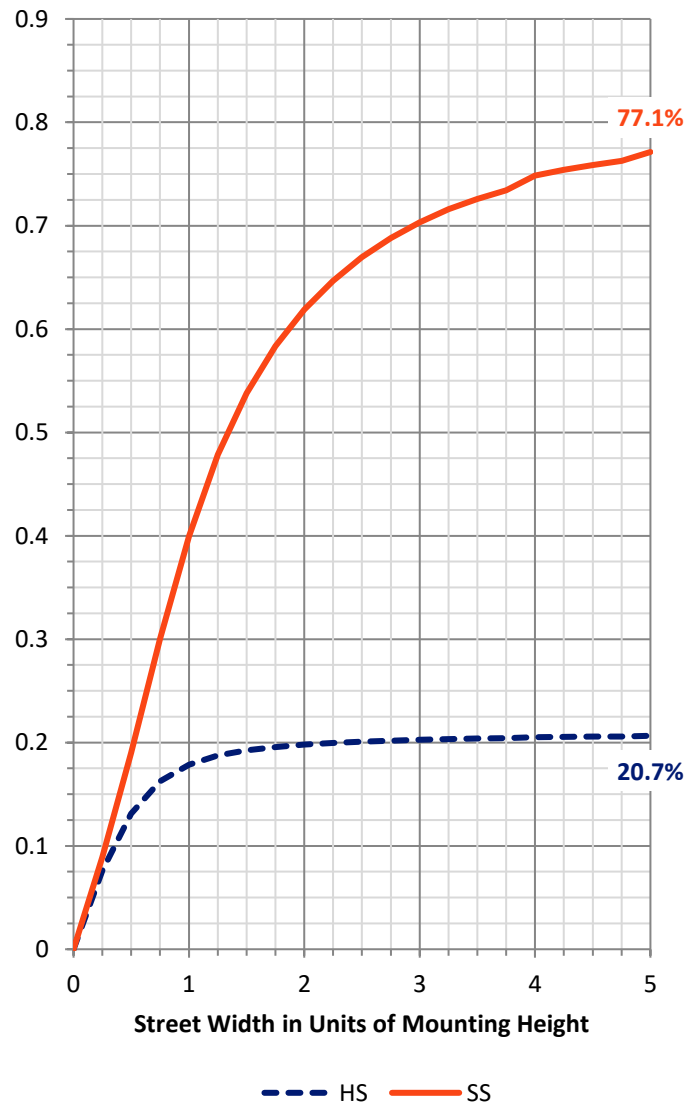
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1396.3	0.0	1396.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5274.2	0.0	5274.2
	% Fixture	79.1	0.0	79.1
Total	Lumens	6670.5	0.0	6670.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	1.2
10°-20°	251.1	3.8
20°-30°	444.1	6.7
30°-40°	701.1	10.5
40°-50°	1031.0	15.5
50°-60°	1358.0	20.4
60°-70°	1513.7	22.7
70°-80°	994.5	14.9
80°-90°	296.6	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°	6670.5	100.0
0°-180°	6670.5	100.0



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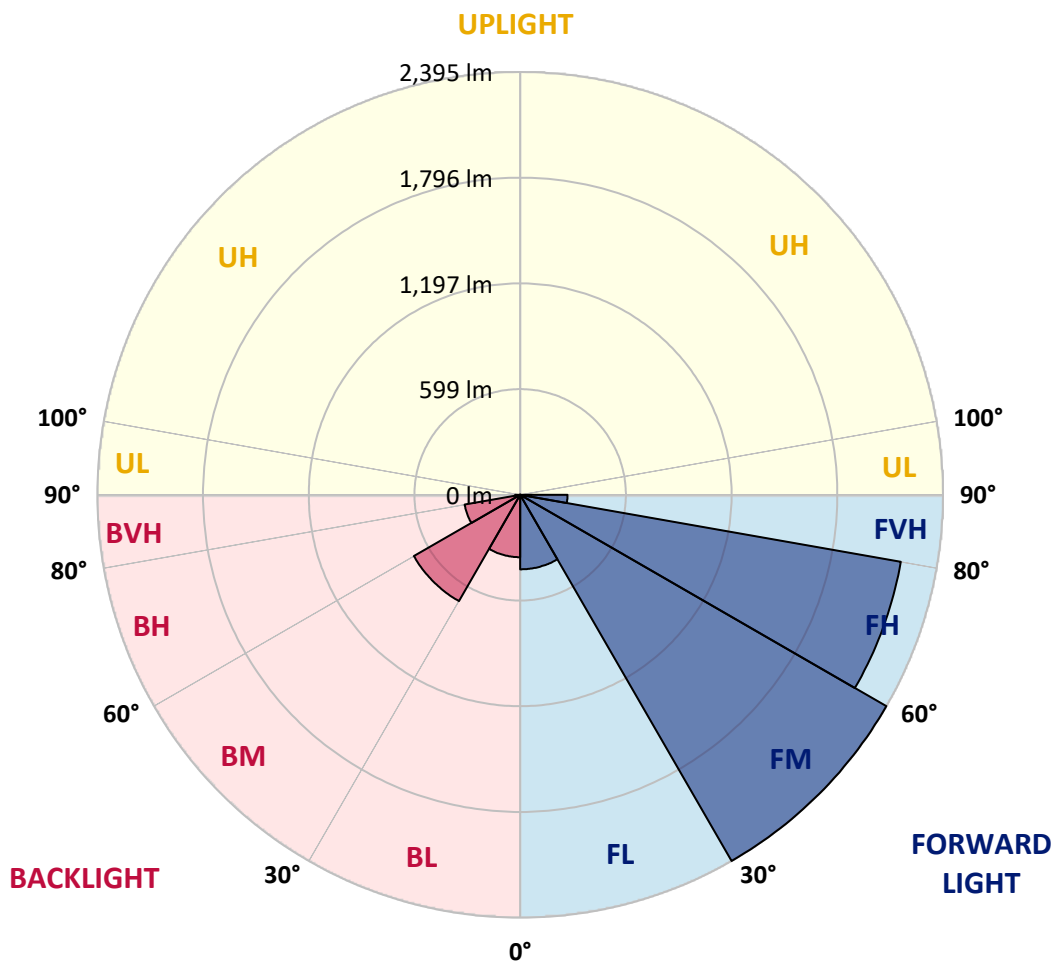
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	422.2	6.3			
FM	(30°-60°)	2394.9	35.9			
FH	(60°-80°)	2189.1	32.8			G2/5000
FVH	(80°-90°)	268.0	4.0			G3/500
BL	(0°-30°)	353.5	5.3	B1/500		
BM	(30°-60°)	695.2	10.4	B1/1000		
BH	(60°-80°)	319.1	4.8	B1/500		G1/500
BVH	(80°-90°)	28.5	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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	818.3	819.7	819.7	818.3	819.7	819.3	819.3	820.7	821.2	823.7	822.2
5°	814.3	814.8	815.3	814.3	814.8	814.8	815.8	817.3	817.8	820.7	819.3
7.5°	809.8	810.8	808.8	809.3	810.8	812.8	812.8	814.8	818.3	819.7	819.3
10°	812.3	811.3	809.8	809.3	810.3	810.8	811.8	815.3	818.3	819.7	822.2
12.5°	831.6	828.7	827.2	826.7	827.2	826.2	829.7	830.6	831.6	833.6	832.6
15°	868.3	864.3	861.8	859.4	864.8	862.3	862.3	859.4	854.4	847.0	837.6
17.5°	919.3	914.8	912.9	911.9	912.4	907.9	899.0	884.6	867.3	847.5	829.2
20°	992.6	999.5	996.6	983.2	978.2	958.4	930.2	900.5	870.3	838.6	808.4
22.5°	1119.4	1115.4	1102.1	1068.9	1039.2	994.6	944.1	896.0	851.4	805.4	765.8
25°	1266.5	1233.3	1195.7	1130.3	1062.0	988.6	915.8	858.9	799.4	748.9	701.4
27.5°	1446.8	1375.0	1278.9	1172.4	1070.4	972.8	886.6	811.3	743.5	689.5	636.5
30°	1624.1	1504.3	1370.5	1229.4	1091.7	959.9	846.0	758.8	680.6	611.2	557.7
32.5°	1747.0	1601.8	1435.4	1261.1	1093.7	939.1	801.4	697.4	609.2	539.4	475.0
35°	1848.0	1666.7	1458.2	1256.1	1062.0	890.6	737.5	622.1	528.5	456.2	399.7
37.5°	1917.4	1699.9	1456.7	1227.4	1005.5	813.3	664.2	546.8	459.7	392.3	340.3
40°	1965.9	1710.3	1437.4	1178.4	940.6	738.5	586.0	479.0	402.7	350.2	312.5
42.5°	1989.2	1703.4	1408.7	1131.8	876.2	678.1	527.0	433.4	371.5	331.9	304.1
45°	1999.1	1686.5	1376.5	1086.2	823.7	626.1	496.8	419.5	371.0	336.8	306.6
47.5°	1996.6	1668.2	1347.8	1048.6	792.5	612.2	502.7	438.4	389.3	346.7	308.1
50°	1989.7	1651.4	1329.4	1034.7	792.0	633.0	535.9	470.1	410.6	355.6	306.6
52.5°	1989.2	1649.9	1339.3	1051.1	820.7	680.1	586.0	506.7	431.4	365.5	307.1
55°	2001.1	1676.6	1381.4	1095.1	890.1	745.9	642.4	545.8	454.7	372.5	305.6
57.5°	2049.1	1743.5	1461.2	1193.7	979.2	826.2	696.9	575.1	463.6	370.5	298.7
60°	2154.6	1860.9	1584.0	1332.9	1093.7	899.5	729.1	585.0	459.7	358.6	283.8
62.5°	2319.1	2030.8	1752.4	1469.6	1195.2	943.6	736.5	577.0	443.8	338.8	265.5
63°	2361.2	2069.9	1786.6	1497.8	1212.5	948.0	736.0	574.1	439.3	333.8	261.0
65°	2537.0	2237.8	1923.8	1591.0	1259.1	956.9	724.6	555.2	419.5	310.6	240.7
67.5°	2801.5	2423.1	2060.0	1677.6	1284.8	941.1	689.0	508.7	368.5	269.9	210.5
70°	2977.8	2545.9	2141.2	1705.9	1254.6	868.8	607.3	426.5	301.2	222.4	179.8
72.5°	2982.3	2436.0	2031.3	1559.3	1083.3	716.7	475.5	322.5	234.3	180.8	155.0
75°	2663.8	2058.5	1660.3	1280.4	833.6	506.7	334.3	235.3	179.8	149.1	134.2
77.5°	1980.3	1501.8	1198.2	861.4	541.4	328.4	232.8	174.4	142.7	123.3	112.4
80°	1228.9	938.6	727.1	515.1	324.4	218.4	170.4	138.7	119.9	103.0	94.1
82.5°	741.0	525.5	410.6	311.1	207.5	157.5	131.3	116.9	101.5	86.7	79.7
85°	542.9	375.9	275.4	192.2	128.3	104.0	92.1	89.2	78.8	66.9	62.9
87.5°	170.9	179.3	186.2	113.4	61.9	47.1	40.1	47.1	45.1	31.7	34.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	824.7	826.7	825.2	825.2	824.2	823.7	827.2	826.2	827.2	826.7	827.7
5°	821.7	823.2	822.2	823.2	822.2	822.2	826.7	826.7	828.7	829.7	832.1
7.5°	822.7	823.2	822.7	824.2	823.2	822.2	824.7	826.2	829.7	832.6	835.1
10°	826.2	827.7	827.2	827.2	824.2	822.2	823.7	824.7	828.2	829.7	832.6
12.5°	834.6	832.6	828.7	826.2	819.3	815.3	813.3	812.3	814.8	816.8	818.3
15°	832.6	821.7	812.8	805.4	795.0	788.5	783.6	783.1	783.6	784.1	785.6
17.5°	812.3	797.5	779.6	770.2	758.3	751.4	747.9	745.4	745.0	745.9	748.4
20°	783.1	761.3	741.5	725.1	712.3	701.4	703.8	698.4	700.9	702.4	706.8
22.5°	738.5	708.3	685.5	665.7	650.3	639.0	639.0	634.0	635.0	639.5	645.4
25°	666.2	638.0	605.3	591.4	574.1	566.1	564.7	563.7	567.6	573.1	576.5
27.5°	600.8	562.2	530.0	511.7	493.3	495.3	485.4	491.4	495.8	500.3	504.2
30°	512.7	481.0	451.7	433.4	411.6	412.1	413.6	414.6	418.5	424.5	432.4
32.5°	428.0	393.8	366.5	346.7	333.8	329.9	324.4	333.3	338.3	344.2	352.2
35°	358.1	322.5	299.7	282.3	274.9	269.5	268.0	267.0	271.4	274.4	280.8
37.5°	308.1	283.8	267.0	254.6	247.7	241.7	240.2	239.2	238.7	237.8	241.7
40°	287.8	268.5	254.1	242.7	236.3	232.8	231.3	229.3	227.3	224.9	224.4
42.5°	281.8	261.0	244.2	232.8	227.8	227.3	227.3	226.4	224.4	220.9	218.4
45°	279.4	254.1	234.8	225.9	222.4	222.9	222.9	222.9	221.4	217.9	214.0
47.5°	274.9	245.7	225.9	218.4	216.9	217.9	218.9	218.9	217.9	215.0	210.5
50°	266.5	232.8	212.0	205.1	204.6	205.1	205.1	206.1	205.1	202.6	198.6
52.5°	260.0	222.9	201.6	196.1	196.1	195.6	195.2	195.2	194.7	192.7	189.7
55°	254.1	216.5	197.1	192.7	193.7	193.7	192.7	192.2	190.2	187.7	184.8
57.5°	245.7	209.5	192.7	189.7	190.7	190.2	189.7	189.2	187.2	184.3	180.3
60°	230.8	197.1	183.8	181.8	183.3	183.8	185.7	186.2	185.2	181.8	176.3
62.5°	214.5	181.8	171.9	170.4	171.9	173.4	174.8	173.9	173.9	170.4	165.4
63°	209.0	179.3	168.4	168.4	169.9	171.4	172.4	171.4	171.9	167.9	163.0
65°	196.6	170.4	162.0	162.5	163.9	164.9	165.4	165.4	164.9	162.0	157.5
67.5°	175.8	157.5	152.6	155.0	157.0	157.5	157.5	158.5	157.5	155.5	151.6
70°	157.0	145.1	141.7	144.6	145.6	146.1	146.1	146.1	145.1	143.1	139.7
72.5°	142.7	136.7	136.2	135.7	136.2	134.7	134.7	133.7	131.3	129.8	126.8
75°	126.8	123.8	124.3	123.8	122.8	122.3	119.9	118.9	115.9	113.9	110.0
77.5°	109.0	109.5	109.0	109.5	110.5	111.0	107.5	105.0	102.5	100.5	98.6
80°	90.6	91.6	90.6	91.6	92.1	92.1	88.7	84.7	82.7	84.2	84.7
82.5°	80.7	80.7	76.8	77.8	76.8	75.3	72.8	71.3	69.8	68.8	71.3
85°	63.9	64.4	65.4	64.4	62.4	60.9	58.4	56.5	55.0	56.5	59.9
87.5°	38.1	41.1	39.6	39.6	39.1	39.1	37.1	36.2	34.7	40.6	43.6
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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	827.2	828.7	829.2	828.7	829.2	830.1	826.2	830.1	830.6	827.7	828.7
5°	834.1	836.6	840.1	840.1	842.5	844.0	842.0	847.5	848.5	848.0	850.5
7.5°	839.1	842.5	847.0	849.5	853.9	855.9	857.4	862.3	863.3	865.3	867.3
10°	838.6	843.5	847.5	854.4	859.9	863.8	866.8	872.2	874.2	877.2	878.7
12.5°	824.2	829.7	837.1	847.0	856.9	863.3	871.3	879.2	882.2	886.1	888.6
15°	792.0	796.5	806.9	819.7	833.1	849.5	860.9	873.2	878.7	882.7	886.1
17.5°	749.9	753.9	763.3	774.7	792.5	808.4	825.7	844.5	853.9	858.4	859.9
20°	710.8	716.7	719.2	732.6	738.5	754.4	769.2	790.0	801.9	809.8	814.8
22.5°	649.4	652.3	665.2	670.7	675.1	685.0	703.3	721.7	737.5	750.4	754.4
25°	581.5	589.4	596.4	600.8	611.2	611.7	626.6	639.5	659.3	671.6	681.6
27.5°	506.7	518.6	522.6	525.5	533.5	542.9	548.3	561.2	572.6	586.9	604.8
30°	431.4	442.8	450.7	455.2	462.6	471.5	475.5	483.9	498.8	514.6	528.5
32.5°	361.1	373.0	376.9	391.3	393.3	401.7	404.7	418.0	426.5	439.8	456.2
35°	292.2	304.6	316.5	324.4	333.3	332.9	340.8	353.2	360.6	374.5	385.4
37.5°	245.2	252.6	261.0	269.9	279.9	287.3	294.7	300.2	306.1	315.5	325.4
40°	224.4	226.4	229.8	235.3	242.2	247.7	253.1	257.6	262.0	269.5	275.9
42.5°	216.0	214.5	214.5	213.5	216.0	218.9	223.4	224.9	231.8	236.3	238.7
45°	210.0	206.5	204.1	201.1	200.1	201.1	203.6	207.0	211.5	213.0	213.0
47.5°	206.5	201.1	197.1	192.7	190.2	190.2	191.7	194.2	196.6	197.1	196.6
50°	194.7	189.2	184.3	180.3	178.3	178.3	178.8	182.3	182.8	181.8	182.3
52.5°	185.7	180.3	175.3	171.9	169.4	169.9	171.4	172.9	174.4	173.4	172.4
55°	180.3	173.9	169.4	165.4	162.5	163.5	164.9	166.9	169.4	167.9	166.4
57.5°	175.3	169.9	164.4	160.5	157.0	158.0	159.5	162.5	165.4	162.5	160.5
60°	170.9	165.4	160.0	156.0	152.1	153.1	155.0	158.0	160.5	156.5	154.0
62.5°	160.0	155.0	151.1	149.1	146.6	148.1	149.6	153.1	152.1	148.1	145.1
63°	158.0	153.1	149.6	147.6	145.6	147.6	148.1	151.6	150.1	146.1	143.6
65°	152.1	148.1	144.6	142.7	140.7	141.7	141.7	143.1	141.2	138.2	136.2
67.5°	146.6	142.2	138.7	134.7	132.7	131.8	131.3	130.8	129.3	127.8	127.3
70°	134.7	131.8	128.8	125.3	122.3	120.4	119.4	118.4	117.4	116.9	116.4
72.5°	121.8	119.4	116.4	114.4	111.9	110.5	108.0	107.5	106.5	105.5	105.0
75°	108.0	105.0	104.0	102.0	100.5	99.6	97.6	97.1	96.1	94.6	94.1
77.5°	95.6	94.6	93.1	92.6	90.1	88.7	87.7	87.2	86.2	85.2	84.2
80°	85.2	84.7	83.7	83.2	81.7	79.7	78.8	79.3	77.8	77.3	75.8
82.5°	76.8	77.3	77.3	75.8	74.3	71.8	70.8	72.3	71.3	69.3	67.4
85°	65.4	64.9	65.4	64.9	61.9	59.4	58.4	59.4	58.9	56.0	55.5
87.5°	46.6	46.1	45.1	48.0	44.1	35.7	36.7	41.6	40.1	38.6	37.6
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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	830.6	829.2	830.1	830.6	829.2	832.6	829.2	829.7	830.6	827.7	827.2
5°	852.4	852.4	856.4	856.9	856.4	860.9	860.4	860.9	859.9	859.4	857.4
7.5°	870.3	872.2	875.2	879.7	881.2	884.6	885.6	886.1	888.1	890.1	889.1
10°	883.1	888.6	891.1	895.5	900.0	902.5	904.9	908.9	910.4	911.9	909.9
12.5°	892.1	898.5	902.5	907.9	913.4	917.3	921.8	926.7	931.7	933.2	930.7
15°	887.6	895.0	901.0	906.9	915.3	922.8	931.2	940.1	946.5	949.0	946.1
17.5°	859.9	867.3	876.2	885.1	894.0	907.9	919.8	934.7	945.1	952.5	953.5
20°	821.7	826.2	839.1	848.0	862.3	878.7	896.5	913.9	925.7	939.1	947.0
22.5°	765.3	774.2	788.5	803.9	818.3	839.6	858.4	881.2	901.5	919.8	937.1
25°	696.4	708.8	725.6	746.9	765.8	788.5	815.8	841.0	875.2	903.9	941.1
27.5°	622.1	644.9	668.2	690.5	711.3	737.0	765.3	793.5	832.6	878.7	927.2
30°	551.8	570.6	599.8	625.6	649.9	681.6	710.8	742.0	779.1	833.6	888.6
32.5°	478.5	493.8	516.6	548.3	576.5	613.7	639.5	676.6	719.7	777.1	839.6
35°	402.7	424.0	442.3	464.1	485.4	522.6	561.2	602.3	651.8	713.3	781.6
37.5°	335.8	349.2	358.1	380.4	399.2	430.9	476.0	525.5	580.0	642.4	715.7
40°	280.3	288.8	298.7	313.5	329.4	358.1	399.7	455.2	512.2	574.6	647.9
42.5°	242.2	247.7	248.6	260.0	274.9	303.1	336.3	387.3	450.2	515.6	588.9
45°	216.0	216.0	215.5	220.4	232.3	256.6	286.8	332.4	392.3	460.6	536.9
47.5°	197.6	199.1	198.6	200.6	208.5	226.4	253.6	292.2	346.7	413.6	490.4
50°	183.8	185.7	186.2	186.7	189.7	204.6	227.8	259.0	307.6	371.5	448.8
52.5°	172.9	173.4	173.4	172.9	173.9	182.3	201.6	230.3	275.4	332.9	407.1
55°	166.9	167.4	167.4	167.4	167.4	172.9	186.7	210.0	246.2	300.2	367.5
57.5°	160.0	160.0	161.0	161.0	161.0	163.0	172.9	192.2	219.9	263.0	322.9
60°	154.0	155.5	157.5	158.0	157.5	157.5	162.5	175.3	193.7	224.9	275.4
62.5°	145.1	147.1	149.6	150.6	151.1	150.1	152.6	158.0	168.9	185.2	219.4
63°	143.6	145.6	147.6	148.6	149.1	148.1	150.1	154.5	163.5	176.8	207.5
65°	137.2	139.7	140.2	140.7	140.2	139.7	139.2	139.2	141.7	146.6	163.0
67.5°	128.3	129.8	129.8	130.8	128.3	127.3	126.3	125.3	123.8	124.3	130.3
70°	117.9	118.9	118.4	117.9	116.9	115.4	114.4	112.9	110.0	109.0	111.9
72.5°	106.0	107.0	107.0	107.0	105.0	104.0	103.0	102.0	101.0	102.0	103.0
75°	95.1	95.1	96.1	95.6	94.1	93.1	92.6	92.1	92.1	92.1	91.6
77.5°	84.7	84.2	84.2	82.7	81.7	81.2	82.2	82.7	82.2	81.2	80.7
80°	75.8	73.3	70.8	68.8	68.4	69.3	70.3	73.3	71.8	71.8	70.8
82.5°	64.4	58.9	55.5	56.0	54.5	55.0	56.0	59.4	58.4	58.9	60.9
85°	51.5	46.6	41.1	42.1	42.1	41.1	43.6	44.6	45.6	48.0	46.1
87.5°	36.2	31.7	26.3	22.8	23.8	24.8	25.8	24.8	21.8	22.8	22.3
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3
2.5°	826.2	826.7	826.7	823.2	822.2	823.2	822.7	822.7	819.7	820.2	819.3
5°	856.4	857.4	854.4	851.9	848.5	848.0	847.5	845.5	843.5	839.6	837.6
7.5°	888.6	884.1	883.1	878.7	877.2	873.2	870.3	867.3	864.8	862.8	861.4
10°	908.9	905.4	904.4	896.5	894.0	889.1	886.1	882.7	879.7	876.7	876.2
12.5°	927.2	921.3	917.8	906.9	902.0	896.5	894.0	891.1	890.1	889.6	891.6
15°	941.6	933.2	926.7	916.8	912.9	909.9	910.4	908.9	914.8	918.3	924.8
17.5°	951.0	947.5	946.1	938.6	941.1	941.1	948.0	951.5	962.4	971.3	980.2
20°	956.0	962.4	974.8	977.3	983.2	989.6	1000.0	1006.0	1017.4	1030.3	1042.6
22.5°	960.4	987.7	1012.9	1031.7	1045.1	1060.0	1067.4	1079.8	1087.7	1097.1	1115.9
25°	985.2	1030.8	1075.3	1099.6	1131.3	1152.6	1169.4	1181.8	1195.7	1203.6	1224.9
27.5°	978.2	1036.2	1095.6	1140.2	1189.7	1229.9	1265.5	1289.3	1307.1	1335.9	1353.7
30°	946.5	1013.9	1085.7	1149.1	1218.5	1283.9	1345.8	1401.2	1448.8	1487.4	1513.7
32.5°	901.5	978.7	1062.9	1141.2	1229.9	1317.0	1406.2	1490.9	1571.6	1635.5	1675.7
35°	851.0	934.2	1027.3	1119.9	1226.4	1340.3	1460.7	1574.6	1691.5	1793.5	1873.8
37.5°	789.5	879.7	981.7	1089.2	1211.5	1348.2	1499.8	1654.8	1803.9	1958.5	2071.4
40°	725.1	813.3	919.3	1042.1	1183.3	1344.3	1530.0	1731.1	1947.1	2146.2	2318.1
42.5°	670.2	756.3	867.3	988.6	1140.7	1329.4	1550.3	1799.5	2065.5	2323.5	2551.9
45°	616.2	708.3	820.2	948.5	1114.5	1323.5	1576.6	1858.9	2162.5	2468.6	2759.9
47.5°	573.6	664.7	777.6	915.3	1093.2	1320.0	1601.4	1914.4	2241.8	2576.6	2921.9
50°	533.0	620.1	730.1	875.2	1070.9	1314.6	1616.2	1958.5	2303.7	2661.3	3036.8
52.5°	491.4	582.0	689.0	829.7	1041.6	1303.7	1620.7	1993.1	2367.6	2742.6	3144.3
55°	449.3	539.9	646.9	792.5	1002.0	1282.4	1617.2	2018.4	2434.5	2828.2	3242.3
57.5°	397.7	486.9	598.8	745.4	951.0	1239.8	1600.4	2029.3	2476.1	2908.5	3340.9
60°	339.8	424.0	530.0	679.6	888.6	1178.4	1562.7	2014.0	2494.9	2961.5	3445.4
62.5°	267.0	340.3	437.9	586.5	798.0	1089.7	1480.5	1946.1	2449.3	2948.1	3490.5
63°	250.6	321.5	422.0	561.7	771.2	1059.0	1456.2	1922.8	2429.0	2935.7	3485.0
65°	191.2	243.7	326.9	451.7	651.8	917.3	1328.4	1791.1	2301.2	2812.4	3399.3
67.5°	141.2	168.4	219.4	303.1	458.7	713.7	1088.7	1546.9	2029.8	2510.3	3107.6
70°	116.9	127.3	151.1	194.2	283.8	473.5	769.2	1177.4	1631.6	2045.2	2584.6
72.5°	104.5	111.9	122.8	142.2	179.3	277.9	500.3	764.3	1136.3	1493.9	1949.6
75°	93.6	98.6	107.5	118.9	135.7	173.9	264.5	453.2	694.4	1006.5	1337.4
77.5°	82.2	87.2	96.1	105.0	115.9	132.2	163.9	258.1	415.6	587.4	820.7
80°	71.3	73.8	81.2	94.1	102.0	115.4	125.8	161.5	226.4	307.6	437.4
82.5°	58.9	59.4	64.4	74.3	84.2	89.2	92.1	101.5	130.3	162.5	214.5
85°	42.1	40.1	43.1	47.1	55.0	50.5	54.0	57.0	69.3	83.7	153.5
87.5°	18.8	14.9	17.3	19.3	17.3	11.9	17.3	14.4	17.8	35.2	39.6
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°	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	819.3	0°
2.5°	820.2	817.3	817.3	816.8	817.3	816.3	814.3	814.3	815.8	815.3	815.3	2.5°
5°	837.6	833.6	832.6	832.1	832.1	829.7	826.7	825.2	824.7	822.7	821.2	5°
7.5°	860.4	857.9	859.4	856.4	855.4	854.9	851.0	848.0	843.5	841.5	834.1	7.5°
10°	879.2	877.7	881.7	881.2	881.7	881.7	876.2	873.2	866.8	863.3	853.9	10°
12.5°	895.5	896.5	903.9	903.9	905.4	907.4	904.4	898.0	895.5	892.1	882.2	12.5°
15°	937.1	941.1	946.5	955.5	957.9	958.4	960.9	955.5	949.0	940.1	928.2	15°
17.5°	993.6	1001.5	1019.9	1032.7	1035.2	1037.7	1036.2	1035.2	1023.3	1015.9	1003.5	17.5°
20°	1064.4	1083.7	1109.5	1127.3	1135.3	1136.3	1146.2	1139.2	1128.3	1113.5	1095.6	20°
22.5°	1143.7	1175.9	1208.6	1234.8	1250.2	1257.1	1267.5	1257.6	1243.2	1234.3	1210.5	22.5°
25°	1252.2	1287.3	1325.0	1345.8	1384.9	1396.3	1402.2	1399.3	1384.4	1390.8	1369.1	25°
27.5°	1400.8	1431.0	1484.0	1510.2	1546.9	1568.2	1563.7	1588.5	1592.9	1608.3	1610.8	27.5°
30°	1562.7	1612.7	1684.1	1737.1	1793.0	1829.2	1857.9	1879.7	1905.0	1947.6	1973.3	30°
32.5°	1737.6	1809.9	1901.0	2013.5	2132.3	2229.4	2338.9	2357.7	2414.2	2397.8	2386.9	32.5°
35°	1932.2	2023.4	2140.3	2287.9	2460.7	2621.2	2726.7	2779.7	2802.0	2814.4	2739.1	35°
37.5°	2192.8	2316.1	2446.4	2607.3	2739.6	2889.7	3011.0	3142.8	3203.2	3174.5	3030.3	37.5°
40°	2481.5	2596.9	2773.3	2905.0	3061.0	3308.2	3472.7	3631.2	3680.7	3585.1	3359.2	40°
42.5°	2771.3	2929.8	3121.0	3308.2	3487.5	3711.4	3929.3	4085.9	4140.3	3976.9	3708.9	42.5°
45°	3029.3	3232.4	3457.3	3649.5	3900.1	4192.8	4459.8	4585.6	4575.7	4313.2	4011.6	45°
47.5°	3254.2	3517.7	3771.3	4030.4	4283.0	4613.4	4877.9	5022.5	4920.0	4644.1	4302.3	47.5°
50°	3440.0	3758.4	4064.6	4362.2	4672.3	5023.5	5278.6	5412.3	5256.3	4907.1	4525.2	50°
52.5°	3581.1	3975.9	4328.6	4661.4	5031.9	5411.3	5638.2	5718.9	5475.7	5110.7	4692.1	52.5°
55°	3714.4	4160.6	4551.0	4928.9	5390.0	5730.3	5942.8	5927.9	5613.9	5199.3	4796.6	55°
57.5°	3814.9	4318.2	4733.7	5164.2	5661.0	6024.5	6147.4	6049.3	5671.4	5225.6	4826.8	57.5°
60°	3941.7	4441.0	4896.2	5376.6	5918.5	6226.1	6242.5	6066.6	5655.0	5176.0	4784.2	60°
62.5°	4022.9	4517.8	4999.7	5522.3	6114.7	6339.5	6222.6	5991.8	5560.9	5053.7	4686.7	62.5°
63°	4030.9	4525.2	5008.1	5536.6	6142.4	6344.5	6204.3	5958.1	5533.2	5020.0	4660.9	63°
65°	3995.2	4503.9	4969.5	5510.9	6149.3	6286.0	6070.1	5820.0	5380.1	4848.1	4509.3	65°
67.5°	3746.1	4275.1	4719.4	5227.1	5881.9	5957.6	5741.2	5469.3	5056.2	4477.6	4178.0	67.5°
70°	3299.8	3802.5	4117.6	4589.1	5165.1	5255.8	5062.1	4851.6	4484.6	4001.2	3752.5	70°
72.5°	2658.4	3152.2	3341.4	3702.5	4160.2	4140.3	4004.1	3977.9	3784.7	3379.0	3229.5	72.5°
75°	1987.2	2457.3	2537.0	2684.1	2939.7	2933.3	2965.0	3077.9	3174.5	2934.7	2743.1	75°
77.5°	1310.6	1778.2	1827.7	1999.1	2069.9	2264.1	2491.9	2775.7	2916.4	2818.3	2583.1	77.5°
80°	725.1	1216.5	1206.6	1273.5	1398.8	1681.1	2026.3	2447.8	2729.2	2658.9	2401.3	80°
82.5°	376.9	768.7	757.3	769.2	885.6	1122.9	1385.4	1730.1	2020.9	2027.3	1940.6	82.5°
85°	280.3	551.8	584.5	611.2	688.5	771.2	819.3	929.7	1089.2	1237.8	1290.8	85°
87.5°	103.0	331.4	412.6	443.3	445.3	434.9	354.2	389.8	354.6	419.5	586.0	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°
819.3	819.3	819.3	819.3	819.3	819.3	819.3
816.3	816.3	815.8	816.8	817.3	818.8	818.3
819.7	818.3	816.8	815.8	814.8	815.3	814.3
828.7	823.7	819.7	816.3	813.3	812.8	809.8
848.5	839.6	832.1	826.7	820.7	817.8	812.3
873.7	863.8	854.4	846.5	839.6	835.6	831.6
917.8	903.5	892.1	883.6	876.7	872.2	868.3
983.2	965.4	948.0	931.7	929.7	919.3	919.3
1073.3	1049.1	1026.8	1012.9	1006.5	992.6	992.6
1198.2	1174.4	1141.2	1124.4	1125.9	1114.0	1119.4
1359.6	1339.8	1305.7	1298.7	1298.7	1285.8	1266.5
1601.8	1594.9	1557.3	1566.7	1546.9	1498.8	1446.8
1961.4	1961.4	1888.6	1836.1	1790.6	1715.8	1624.1
2321.5	2274.5	2163.0	2073.9	1979.3	1864.9	1747.0
2625.7	2500.3	2387.4	2278.4	2136.3	2013.5	1848.0
2882.2	2763.4	2634.1	2468.2	2301.2	2129.9	1917.4
3200.2	3055.6	2861.4	2652.9	2447.8	2212.1	1965.9
3491.0	3309.7	3064.5	2800.5	2539.5	2276.5	1989.2
3764.4	3530.6	3228.0	2911.0	2613.8	2316.1	1999.1
4022.0	3708.4	3356.3	2989.7	2664.8	2337.4	1996.6
4191.9	3838.7	3437.0	3037.3	2695.5	2344.8	1989.7
4298.3	3918.4	3484.5	3063.5	2710.9	2346.3	1989.2
4358.3	3963.5	3510.3	3081.8	2727.7	2355.2	2001.1
4404.8	3999.2	3539.0	3113.1	2767.8	2396.8	2049.1
4448.9	4092.8	3613.8	3170.5	2837.7	2474.6	2154.6
4467.2	4270.6	3765.9	3276.5	2935.2	2599.4	2319.1
4465.8	4304.3	3810.0	3305.7	2961.0	2632.6	2361.2
4411.8	4411.3	4010.6	3445.4	3080.9	2786.1	2537.0
4251.8	4464.8	4232.5	3629.7	3267.1	3039.3	2801.5
3998.7	4399.9	4262.7	3678.2	3399.3	3271.6	2977.8
3562.8	4089.8	3979.9	3471.2	3354.3	3317.1	2982.3
2881.7	3287.9	3240.8	2965.5	3008.5	3084.8	2663.8
2321.5	2308.7	2301.7	2201.7	2384.9	2540.0	1980.3
1939.2	1597.4	1483.5	1444.8	1747.0	1865.9	1228.9
1812.9	1434.9	1151.1	1102.6	1309.1	1372.5	741.0
1385.4	1393.3	1206.1	1033.7	1018.4	932.2	542.9
678.1	689.5	728.6	665.2	570.6	481.0	170.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)