

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: STREETWORKS

Report Number: P159096

Luminaire Tested: **VST-F03-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159096
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F03-LED-E-U-SLR-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6829 lumens
Efficiency: N/A
Efficacy: 87.2 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: 28.75 FT

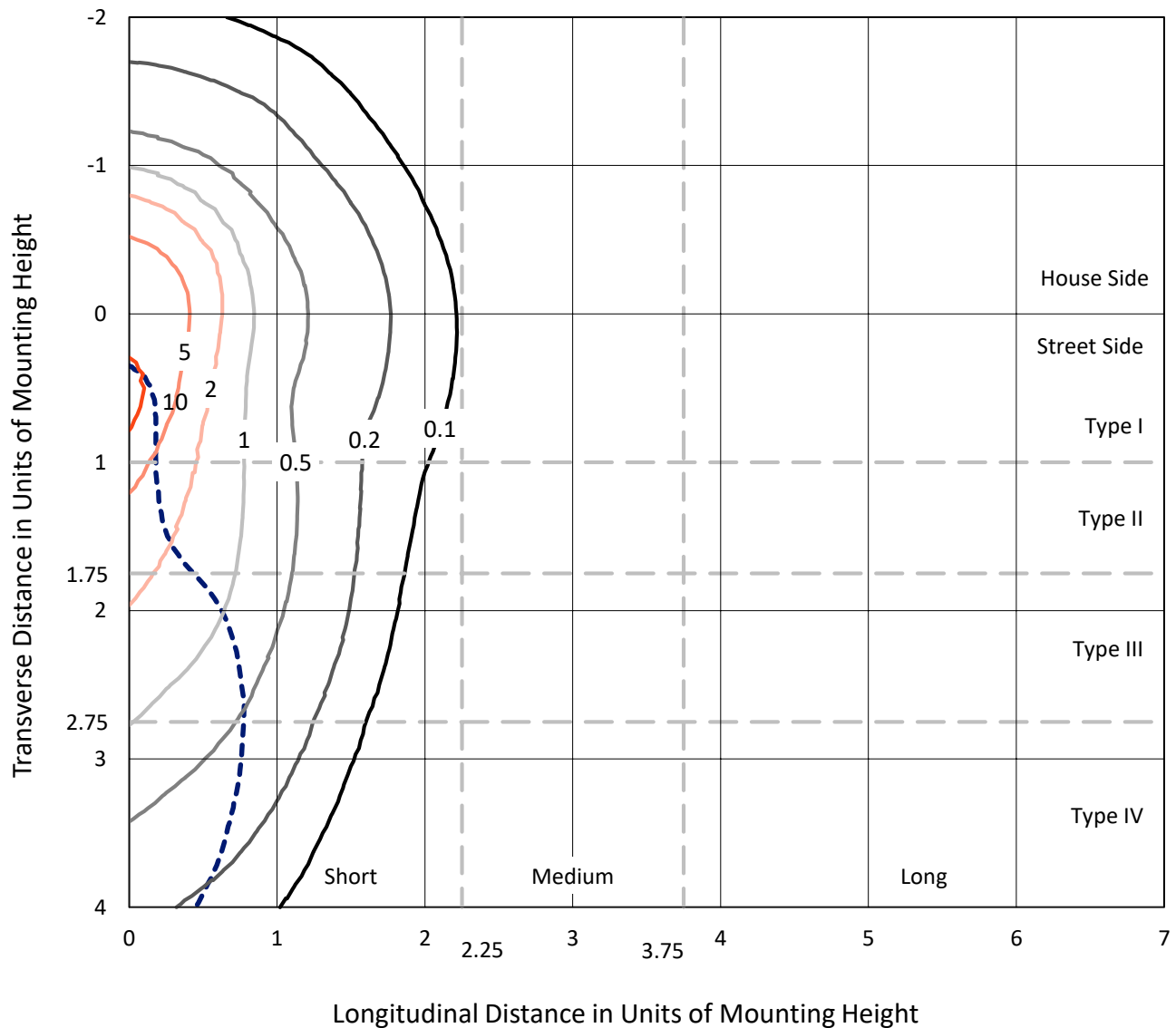


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

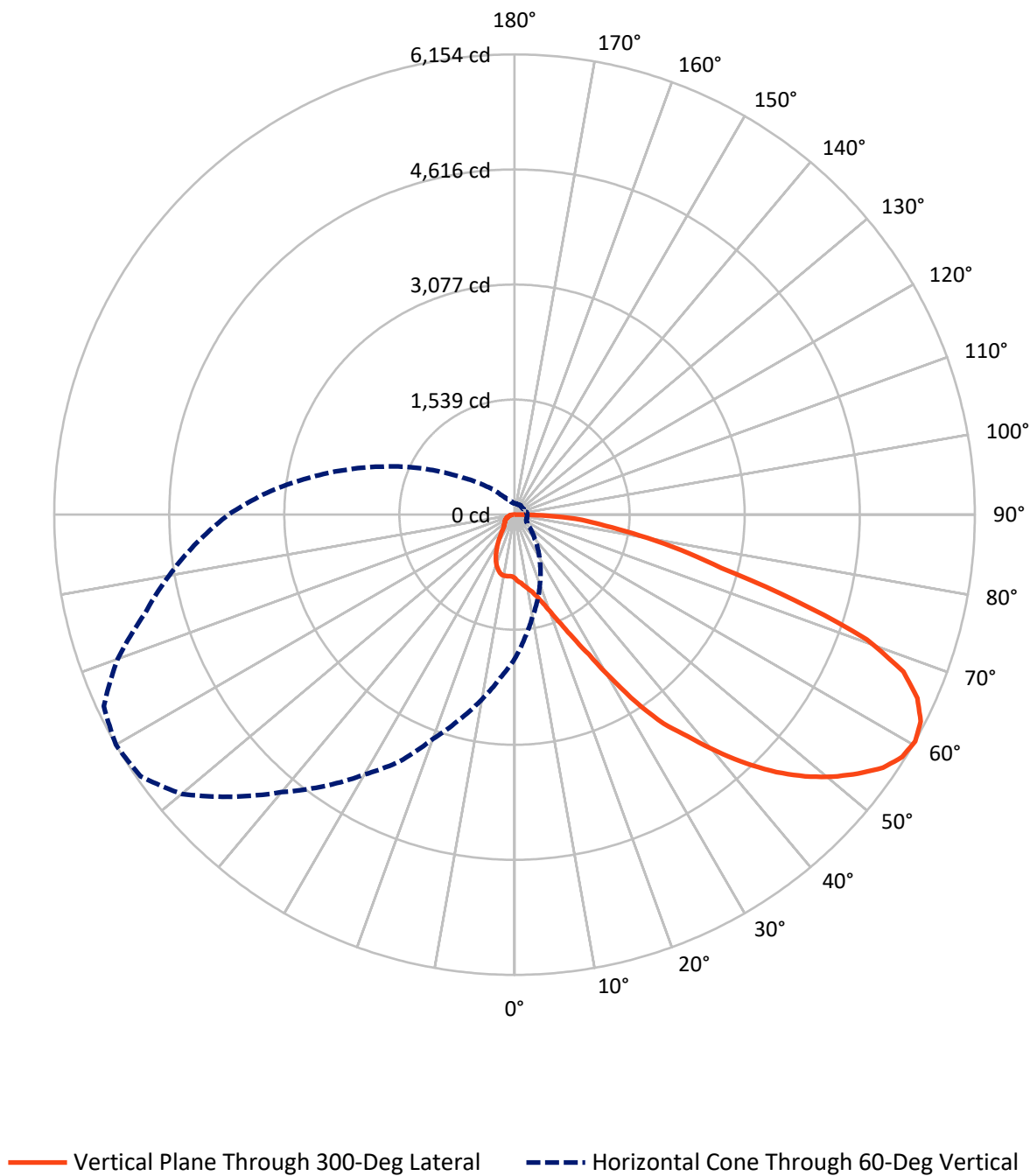


Based on 10 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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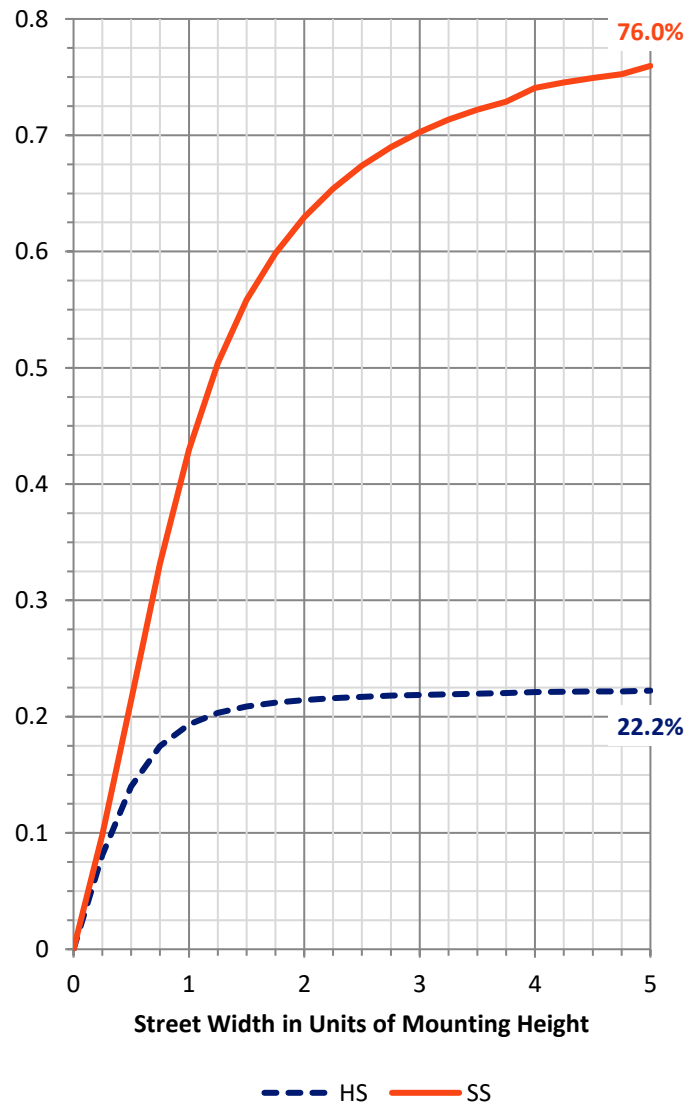
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1537.7	0.0	1537.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5291.3	0.0	5291.3
	% Fixture	77.5	0.0	77.5
Total	Lumens	6829.0	0.0	6829.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.8	1.2
10°-20°	270.5	4.0
20°-30°	513.4	7.5
30°-40°	808.4	11.8
40°-50°	1128.4	16.5
50°-60°	1395.6	20.4
60°-70°	1446.6	21.2
70°-80°	910.2	13.3
80°-90°	272.1	4.0
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°	6829.0	100.0
0°-180°	6829.0	100.0

Coefficient of Utilization



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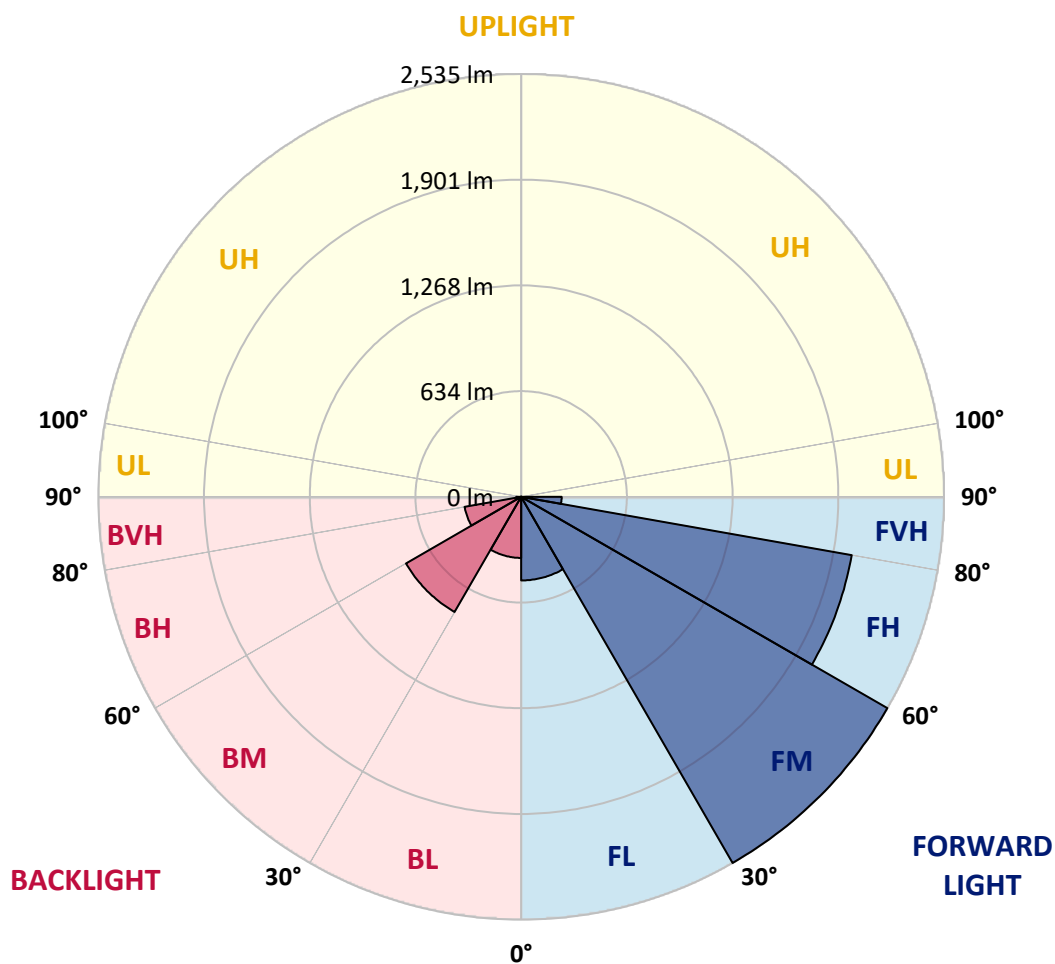
CATALOG NUMBER: VST-F03-LED-E-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	501.3	7.3			
FM	(30°-60°)	2535.0	37.1			
FH	(60°-80°)	2012.4	29.5			G2/5000
FVH	(80°-90°)	242.5	3.6			G3/500
BL	(0°-30°)	366.3	5.4	B1/500		
BM	(30°-60°)	797.4	11.7	B1/1000		
BH	(60°-80°)	344.4	5.0	B1/500		G1/500
BVH	(80°-90°)	29.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	899.6	845.7	846.7	845.2	845.2	844.2	845.2	844.2	843.2	843.2	843.7
5°	911.3	851.8	851.8	850.3	849.3	848.3	849.3	848.3	847.7	846.7	847.3
7.5°	922.4	855.4	853.3	851.3	848.8	849.8	849.8	849.3	849.8	849.3	850.3
10°	940.7	867.1	862.0	857.4	856.9	855.9	855.9	854.3	854.3	853.3	853.9
12.5°	987.5	903.2	897.5	889.4	887.9	883.3	880.8	877.7	872.6	868.1	864.5
15°	1066.3	963.1	952.4	945.4	942.3	933.1	918.9	907.7	893.0	880.3	867.1
17.5°	1162.9	1043.4	1030.7	1021.6	1006.3	981.4	957.5	930.1	901.6	875.7	851.8
20°	1298.0	1158.8	1133.9	1112.0	1073.9	1031.2	986.5	938.7	895.0	854.3	819.3
22.5°	1481.0	1307.7	1261.4	1203.0	1132.4	1060.2	989.0	923.0	864.5	811.7	764.9
25°	1691.5	1450.0	1366.7	1266.1	1157.8	1058.2	964.6	879.8	811.7	743.6	692.8
27.5°	1846.4	1568.9	1445.9	1313.8	1175.6	1048.5	933.7	831.0	748.6	679.0	617.5
30°	1934.9	1637.0	1489.1	1334.2	1178.6	1032.2	894.5	775.6	680.5	597.7	538.7
32.5°	1991.8	1673.6	1493.8	1313.8	1142.0	983.9	835.0	711.5	608.3	520.0	457.4
35°	2039.6	1688.4	1472.4	1268.6	1072.9	910.8	758.8	635.3	526.0	444.7	380.7
37.5°	2058.9	1685.8	1438.3	1208.1	1005.3	831.0	681.1	554.5	456.9	385.3	330.4
40°	2055.4	1662.5	1392.1	1143.5	926.0	747.6	598.7	487.4	408.1	347.6	307.5
42.5°	2031.5	1631.5	1340.8	1078.0	853.3	678.5	542.8	444.2	380.2	334.4	299.3
45°	2001.5	1594.4	1294.0	1018.0	795.9	629.2	510.3	432.0	376.6	332.9	295.3
47.5°	1960.8	1553.2	1246.7	975.3	765.4	614.5	509.8	439.1	379.7	329.3	288.2
50°	1916.6	1523.2	1220.8	957.0	761.9	623.6	527.6	450.3	381.7	325.8	278.5
52.5°	1885.6	1510.0	1220.3	963.7	780.7	649.0	548.4	464.5	389.3	327.8	276.5
55°	1847.5	1508.0	1233.5	992.1	821.8	692.2	581.5	488.9	405.1	335.5	278.0
57.5°	1850.0	1548.1	1284.8	1062.2	896.0	750.7	623.6	518.9	420.3	340.0	275.5
60°	1930.3	1641.7	1386.0	1182.2	993.1	819.3	666.8	535.2	419.3	329.9	263.3
62.5°	2096.0	1781.9	1537.4	1322.9	1091.7	872.2	682.6	530.6	404.0	308.0	243.4
65°	2293.7	1946.1	1684.9	1432.3	1151.7	884.3	668.9	505.2	373.6	279.5	219.5
67.5°	2491.4	2062.4	1769.7	1463.2	1127.3	835.0	618.0	448.3	321.7	240.9	192.6
70°	2562.6	2086.3	1763.1	1393.6	1016.5	712.6	508.7	360.8	258.2	197.2	162.1
72.5°	2455.9	1936.9	1567.4	1184.2	826.4	552.5	373.1	266.3	197.2	154.5	132.1
75°	2059.9	1559.8	1239.1	892.0	596.7	390.8	269.4	194.2	148.4	122.5	105.7
77.5°	1468.3	1086.1	844.2	586.0	387.3	270.9	193.1	145.9	117.9	98.1	85.9
80°	922.4	666.8	514.3	351.7	241.4	184.0	138.8	115.4	95.0	79.8	71.6
82.5°	555.5	388.3	302.9	218.5	158.6	126.1	102.2	90.5	75.7	66.1	61.5
85°	377.1	285.7	198.7	129.1	95.6	74.2	69.6	62.5	56.4	47.3	45.7
87.5°	72.2	102.2	88.9	52.9	35.0	30.0	26.4	25.4	22.9	18.3	20.8
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°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	840.7	839.6	837.6	837.6	836.0	833.0	832.5	830.5	827.9	828.4	827.9
5°	843.7	841.7	839.1	838.1	836.0	833.0	831.5	829.0	826.4	826.4	826.4
7.5°	847.3	844.7	842.7	839.1	835.0	832.0	827.9	824.9	823.4	822.8	823.4
10°	850.3	848.8	845.7	840.7	835.0	829.0	824.9	820.8	816.8	817.3	817.7
12.5°	856.9	851.8	843.7	836.0	827.4	819.8	812.7	807.6	802.5	802.5	803.0
15°	852.3	837.6	826.4	811.7	802.0	789.8	781.7	777.1	774.1	773.0	773.5
17.5°	825.4	807.6	790.8	777.6	764.4	754.7	751.2	748.1	744.1	746.1	744.1
20°	784.7	762.9	739.0	723.2	707.5	700.9	694.8	691.7	689.2	698.3	698.3
22.5°	726.3	699.8	675.5	656.2	638.3	631.3	625.1	621.6	623.1	634.3	635.3
25°	652.6	620.6	588.5	576.8	559.1	553.5	549.9	549.4	550.9	562.1	564.7
27.5°	574.3	540.8	513.3	486.4	478.3	473.7	467.1	474.7	476.2	488.4	493.5
30°	491.0	454.9	425.9	408.1	390.8	393.4	387.8	397.0	401.0	413.7	417.8
32.5°	405.6	371.5	342.5	324.8	312.6	314.1	310.0	318.2	322.2	337.5	345.1
35°	335.5	306.5	283.1	267.8	262.3	256.7	255.7	256.7	260.7	272.4	286.1
37.5°	295.3	271.4	254.6	243.4	235.8	232.3	230.2	230.2	230.2	232.8	239.4
40°	278.0	256.7	241.9	231.2	226.1	224.2	222.6	221.1	218.5	217.5	218.0
42.5°	270.4	246.0	230.2	222.1	219.1	219.1	219.1	218.0	215.5	212.9	210.4
45°	262.7	236.3	220.6	215.0	213.5	214.0	214.0	214.0	211.9	208.9	204.3
47.5°	253.1	225.7	209.9	206.3	206.3	207.9	208.4	208.4	206.3	203.3	199.7
50°	241.4	211.9	197.7	194.6	193.1	193.1	193.1	193.1	191.6	189.6	187.0
52.5°	235.3	204.3	189.6	186.5	186.5	185.0	184.5	182.9	181.4	179.9	176.3
55°	233.3	201.2	186.0	183.5	183.5	182.0	180.4	178.9	176.3	173.8	170.3
57.5°	227.7	194.6	181.4	179.4	179.4	178.4	176.9	175.3	172.8	169.3	164.7
60°	215.0	183.5	172.3	171.8	171.8	171.3	170.3	170.3	167.7	164.2	158.6
62.5°	198.7	171.8	161.1	161.1	160.6	160.1	158.0	157.6	154.5	149.9	144.8
65°	182.9	161.6	154.5	152.5	151.4	149.9	148.9	146.4	143.8	139.7	134.7
67.5°	163.1	146.4	141.8	139.7	137.8	136.2	134.7	133.1	130.1	127.1	123.0
70°	141.8	129.6	127.1	126.5	124.0	122.5	122.0	120.5	117.4	114.4	109.3
72.5°	121.5	114.4	112.3	112.3	109.3	107.2	106.2	105.7	103.7	101.2	96.5
75°	98.1	93.0	92.5	95.0	95.0	93.5	92.5	93.5	90.5	88.9	84.4
77.5°	80.3	77.8	76.3	77.3	80.3	78.8	76.7	76.7	76.7	74.2	72.7
80°	68.1	66.1	64.6	65.6	65.0	64.6	63.5	61.5	61.5	61.5	61.0
82.5°	61.5	61.0	55.4	55.4	53.3	51.8	50.8	49.8	48.8	48.8	51.4
85°	46.3	47.8	44.7	44.2	41.7	39.7	37.6	36.6	35.6	37.1	42.2
87.5°	22.4	22.4	21.4	23.9	21.8	20.8	19.3	18.3	19.3	23.9	28.4
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°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	826.9	826.4	825.9	824.9	822.8	822.4	821.3	821.3	820.8	819.8	820.8
5°	825.4	826.4	826.4	825.9	824.4	825.4	825.4	826.9	826.9	827.9	830.5
7.5°	823.4	825.9	827.9	829.4	831.5	833.0	836.0	840.7	842.7	846.2	847.7
10°	819.3	823.9	827.4	832.0	837.1	842.7	847.3	854.3	856.9	862.0	864.5
12.5°	807.6	815.2	821.3	830.5	839.1	847.7	855.9	865.0	869.6	875.2	878.8
15°	779.2	787.8	796.4	804.5	819.8	836.6	849.8	862.0	868.6	875.7	879.2
17.5°	745.1	750.7	757.8	768.5	783.2	797.9	819.3	836.6	846.7	854.9	855.9
20°	705.4	713.6	718.7	722.7	734.4	744.6	767.5	787.3	800.5	810.1	812.7
22.5°	644.9	653.6	662.2	665.3	674.5	687.7	700.4	721.7	740.5	754.7	763.4
25°	575.8	584.0	595.7	604.8	606.8	617.5	630.2	654.6	673.9	696.8	707.0
27.5°	506.7	513.8	526.6	531.6	537.7	548.4	558.5	578.9	599.2	625.7	636.8
30°	425.9	441.2	455.9	465.5	470.6	483.4	490.4	510.3	529.1	548.4	564.7
32.5°	356.8	370.5	387.3	399.5	405.6	415.3	426.4	443.2	457.9	476.8	495.5
35°	293.3	312.1	323.2	333.9	349.7	354.2	365.4	380.7	389.3	409.6	431.0
37.5°	248.5	259.7	270.9	281.6	294.8	300.9	311.6	324.2	334.4	346.6	365.9
40°	221.1	227.2	235.3	242.5	252.1	259.7	265.3	276.0	283.6	295.8	309.5
42.5°	208.4	209.9	210.9	216.0	221.1	226.1	232.3	236.8	246.0	255.1	263.8
45°	201.2	198.2	196.7	197.2	199.3	202.3	207.4	212.5	218.5	224.2	229.2
47.5°	195.2	191.1	186.5	184.0	184.5	185.5	189.6	193.6	196.7	201.2	203.3
50°	181.0	177.4	173.3	169.7	170.3	170.8	174.3	177.4	179.4	181.0	183.5
52.5°	171.8	166.7	163.1	159.6	159.1	160.6	163.7	166.7	167.7	168.7	169.3
55°	165.2	160.1	155.5	152.0	150.4	154.0	155.0	159.1	160.6	160.6	161.1
57.5°	160.1	154.0	149.4	145.9	143.3	145.9	148.4	153.0	153.5	152.5	152.5
60°	152.5	147.9	143.3	139.7	137.2	139.3	141.3	146.4	146.4	143.8	143.3
62.5°	139.3	136.7	133.7	132.1	131.6	133.7	135.2	139.3	137.8	134.7	133.7
65°	129.6	127.6	124.5	123.5	123.0	126.1	126.5	129.1	127.1	125.5	125.0
67.5°	117.9	116.4	114.8	114.4	112.9	112.9	113.8	115.4	114.4	114.4	114.8
70°	104.7	102.7	101.2	101.6	100.6	100.6	101.2	102.2	101.6	102.7	103.7
72.5°	92.5	89.9	89.5	89.5	88.4	88.9	88.9	89.5	90.5	91.0	93.5
75°	80.8	78.2	78.2	77.8	77.8	77.8	78.2	79.3	80.3	80.8	81.8
77.5°	70.1	68.6	69.1	68.6	68.6	68.6	68.6	70.1	70.6	71.2	72.7
80°	60.5	60.5	61.0	61.0	60.5	60.0	60.5	61.5	62.0	62.5	63.0
82.5°	54.9	55.4	55.4	55.4	52.9	51.8	53.3	54.4	55.4	55.9	56.9
85°	47.3	45.2	47.3	46.7	43.2	42.7	42.7	43.2	44.2	43.2	43.2
87.5°	30.5	27.4	29.0	29.0	25.4	20.8	26.4	28.4	25.4	26.9	26.9
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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	822.4	821.3	821.8	821.8	822.8	821.3	823.4	825.4	825.9	825.9	826.4
5°	833.0	832.0	835.6	834.1	837.6	837.1	839.6	841.7	842.7	842.7	842.7
7.5°	849.8	853.3	855.4	860.9	861.5	864.5	867.1	869.6	868.6	869.1	868.6
10°	868.6	873.2	878.2	883.9	884.3	887.9	892.0	894.5	893.5	893.0	891.5
12.5°	884.9	887.9	894.0	899.6	902.6	908.2	912.3	914.3	914.3	912.8	911.3
15°	883.9	888.4	895.0	903.2	908.8	916.9	924.0	928.6	929.1	927.5	927.1
17.5°	861.5	868.1	874.2	885.4	895.5	906.7	918.4	925.0	931.1	934.7	936.7
20°	821.3	829.4	838.1	852.8	866.6	881.3	895.0	904.7	913.8	924.5	937.2
22.5°	774.1	786.2	798.5	817.3	834.1	850.8	866.6	878.2	892.5	910.8	934.7
25°	718.7	731.3	746.6	768.5	789.8	814.2	837.6	860.9	888.4	919.9	957.0
27.5°	653.1	667.3	687.1	713.6	738.0	762.9	799.4	836.6	881.3	922.0	964.1
30°	588.1	606.4	627.7	654.1	678.5	714.1	750.7	796.4	843.7	889.4	939.7
32.5°	517.9	540.8	567.2	589.1	616.5	652.6	689.2	738.0	788.3	842.2	897.5
35°	450.3	472.1	493.0	517.4	544.9	578.9	614.5	661.2	724.7	782.2	848.3
37.5°	381.7	402.0	416.8	436.1	460.0	497.6	535.7	589.6	649.6	720.2	786.2
40°	321.7	338.5	355.3	370.5	390.8	426.4	467.1	520.0	578.9	647.5	721.2
42.5°	274.0	286.7	304.9	323.2	340.5	371.0	409.1	461.0	519.4	589.6	663.2
45°	233.8	242.5	257.2	272.4	293.8	319.2	355.8	408.6	468.1	538.7	616.5
47.5°	204.8	208.9	219.1	234.8	254.6	279.5	311.0	358.8	416.8	487.9	569.8
50°	185.0	189.6	194.6	207.9	225.7	251.1	277.0	318.7	371.5	441.2	522.5
52.5°	171.3	173.3	175.3	183.5	199.7	221.1	248.5	280.0	333.4	400.0	473.2
55°	163.1	163.7	165.2	169.3	181.4	201.2	225.2	255.1	296.8	359.8	434.5
57.5°	153.5	154.5	156.1	158.6	166.2	184.0	204.3	228.7	263.3	316.1	387.8
60°	144.4	146.9	149.4	151.0	155.0	165.7	182.9	202.3	230.2	269.9	326.8
62.5°	134.7	137.8	139.7	141.3	142.8	149.4	162.1	174.8	192.1	218.0	260.7
65°	126.1	128.1	129.6	130.6	131.6	133.7	139.3	144.4	149.4	165.2	196.2
67.5°	116.4	117.4	117.9	118.4	117.9	117.9	118.4	120.5	122.5	128.6	143.3
70°	105.2	106.7	106.7	107.2	107.2	105.7	105.7	105.7	105.7	107.2	115.4
72.5°	94.6	96.5	96.5	97.1	96.5	96.1	96.1	96.1	97.6	98.6	101.6
75°	84.4	86.4	85.9	86.4	86.9	86.9	87.9	88.4	89.9	90.5	92.5
77.5°	74.2	75.7	76.3	75.7	76.7	77.8	79.8	80.8	81.3	81.8	82.3
80°	64.6	65.6	65.0	63.5	66.1	67.6	70.6	74.2	73.2	73.7	74.7
82.5°	53.3	51.8	50.8	51.8	53.3	55.4	58.4	63.0	63.5	66.1	65.6
85°	41.2	36.6	36.1	38.6	38.1	40.7	45.7	49.3	52.3	54.9	52.3
87.5°	24.4	21.8	18.3	17.3	18.8	24.9	25.9	31.5	34.1	35.0	31.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3
2.5°	872.6	875.2	875.2	876.2	877.7	878.2	880.3	883.9	884.3	884.3	885.9
5°	888.9	891.5	891.5	893.5	894.0	896.5	899.1	903.2	905.2	904.7	911.3
7.5°	915.4	913.3	911.8	914.8	916.4	919.4	924.5	928.1	931.6	937.2	946.4
10°	937.7	934.7	933.1	935.2	936.2	939.7	942.8	947.9	956.5	965.2	976.3
12.5°	956.0	952.4	948.4	949.4	950.9	955.5	960.6	967.2	979.9	991.1	1007.9
15°	971.3	966.2	962.1	964.1	967.7	973.8	982.4	994.1	1015.0	1034.3	1056.7
17.5°	986.0	985.0	983.5	990.1	992.6	1006.9	1019.5	1040.9	1069.3	1098.3	1130.3
20°	1000.2	1011.4	1017.0	1030.2	1038.4	1057.7	1077.0	1102.9	1139.0	1178.6	1222.3
22.5°	1020.1	1050.5	1069.3	1096.3	1110.0	1130.8	1159.3	1193.3	1233.5	1284.4	1340.2
25°	1067.3	1112.0	1149.7	1191.8	1226.4	1258.4	1292.5	1333.6	1391.6	1437.8	1511.0
27.5°	1088.2	1151.2	1207.6	1267.1	1318.9	1368.2	1422.1	1471.9	1540.5	1603.0	1691.5
30°	1068.4	1139.5	1212.7	1290.4	1366.1	1440.9	1519.1	1595.4	1674.7	1762.1	1856.1
32.5°	1031.8	1111.6	1193.9	1285.4	1379.4	1476.5	1578.1	1688.9	1800.7	1909.5	2005.6
35°	994.6	1080.5	1172.0	1276.7	1387.5	1508.0	1634.0	1774.3	1922.2	2059.9	2185.4
37.5°	940.7	1035.3	1140.0	1261.0	1392.6	1541.0	1703.2	1876.0	2063.0	2252.5	2417.2
40°	875.7	975.8	1090.2	1229.5	1387.5	1575.1	1786.0	2007.5	2248.0	2479.2	2681.5
42.5°	816.2	913.8	1035.8	1187.3	1374.3	1605.1	1864.7	2140.7	2425.3	2684.0	2948.3
45°	763.9	871.6	994.1	1157.8	1367.7	1630.4	1923.2	2240.3	2566.1	2874.1	3186.2
47.5°	716.1	827.9	965.2	1141.5	1364.6	1645.7	1963.9	2305.4	2666.3	3020.0	3382.4
50°	666.8	775.6	922.4	1123.7	1357.0	1645.2	1985.2	2349.6	2736.4	3133.3	3517.6
52.5°	614.0	723.2	870.6	1091.2	1340.8	1636.0	1990.8	2379.6	2791.8	3203.0	3632.4
55°	565.7	667.9	815.2	1036.8	1306.7	1613.7	1978.1	2392.3	2830.9	3272.1	3713.2
57.5°	510.3	616.5	756.8	962.1	1242.7	1574.0	1942.0	2374.5	2842.1	3318.4	3777.3
60°	434.0	538.3	682.6	873.7	1142.5	1490.2	1874.9	2320.6	2806.6	3326.5	3823.0
62.5°	346.6	436.6	575.8	751.7	1001.8	1358.5	1750.9	2199.7	2695.7	3250.2	3799.6
65°	257.7	317.6	437.6	592.1	838.6	1160.3	1551.2	1996.9	2479.2	3038.3	3652.7
67.5°	179.4	222.6	296.3	411.2	609.9	896.0	1266.1	1680.2	2144.3	2645.9	3347.8
70°	135.7	155.5	195.7	259.7	394.9	610.4	920.5	1289.4	1719.9	2203.3	2864.5
72.5°	115.9	126.1	148.4	177.9	241.9	371.0	577.9	887.4	1269.1	1662.5	2197.7
75°	104.2	112.9	127.1	145.9	171.3	225.2	339.0	561.6	840.7	1113.5	1533.4
77.5°	94.6	102.2	114.8	124.5	138.2	162.1	216.0	335.9	503.7	688.1	951.4
80°	84.4	88.9	100.6	110.3	121.0	134.7	155.0	210.9	289.2	407.6	561.1
82.5°	72.2	75.7	84.4	97.6	105.7	111.3	117.4	139.7	173.3	221.1	311.6
85°	55.9	58.4	66.1	75.7	79.3	79.8	80.8	86.9	107.8	165.7	268.4
87.5°	28.4	31.5	39.7	42.7	36.1	39.1	39.7	42.2	55.9	91.0	92.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	849.3	0°
2.5°	885.9	887.4	890.9	890.5	893.0	893.0	893.0	895.5	894.0	895.5	898.1	2.5°
5°	911.3	913.8	918.9	918.9	919.4	917.9	920.9	923.0	920.5	919.4	919.9	5°
7.5°	948.4	952.4	956.5	960.6	963.7	962.1	962.6	958.0	957.0	953.5	948.9	7.5°
10°	984.5	995.6	1003.3	1010.4	1010.9	1009.4	1009.9	1002.2	1000.7	993.6	989.0	10°
12.5°	1021.6	1035.8	1048.0	1055.6	1060.2	1061.2	1061.7	1061.7	1054.6	1048.5	1037.8	12.5°
15°	1076.5	1101.4	1120.2	1128.3	1134.9	1141.0	1142.5	1144.6	1139.0	1130.8	1129.3	15°
17.5°	1163.4	1186.7	1211.6	1233.5	1248.2	1249.3	1262.0	1261.0	1272.7	1263.5	1261.0	17.5°
20°	1266.5	1317.4	1343.3	1372.3	1389.1	1397.2	1426.6	1417.5	1426.1	1440.9	1426.1	20°
22.5°	1395.7	1460.2	1497.8	1537.4	1564.9	1584.7	1606.1	1622.8	1646.2	1657.4	1647.2	22.5°
25°	1566.9	1640.6	1685.3	1740.2	1783.9	1819.5	1856.6	1901.3	1900.9	1927.8	1946.6	25°
27.5°	1763.6	1857.7	1922.7	2019.2	2056.9	2116.9	2180.4	2249.5	2261.7	2296.7	2314.6	27.5°
30°	1948.6	2065.0	2194.1	2309.0	2439.1	2528.0	2601.7	2650.5	2724.2	2705.9	2695.7	30°
32.5°	2119.4	2274.4	2458.4	2647.0	2853.3	2994.1	3124.2	3184.7	3230.4	3133.3	3004.7	32.5°
35°	2341.0	2526.5	2736.9	2969.7	3232.0	3431.7	3565.9	3584.6	3558.7	3434.2	3221.3	35°
37.5°	2615.5	2810.1	3049.5	3295.4	3574.0	3761.5	3914.5	3941.9	3873.4	3651.2	3427.6	37.5°
40°	2886.3	3114.5	3374.2	3665.5	3954.1	4160.5	4314.0	4322.1	4210.3	3950.6	3688.9	40°
42.5°	3182.6	3432.2	3721.4	4044.1	4342.4	4551.4	4662.1	4697.2	4539.1	4206.2	3955.1	42.5°
45°	3438.3	3736.6	4058.8	4401.9	4714.0	4912.2	5025.0	5013.8	4822.7	4493.9	4199.6	45°
47.5°	3687.3	4015.6	4355.2	4719.5	5029.6	5229.8	5345.7	5335.6	5093.1	4714.5	4390.7	47.5°
50°	3908.9	4265.2	4628.1	5017.4	5326.4	5509.9	5651.7	5606.9	5300.5	4891.9	4513.7	50°
52.5°	4062.9	4460.3	4839.5	5260.3	5578.5	5752.3	5932.7	5788.9	5423.0	5000.6	4579.8	52.5°
55°	4160.5	4594.6	4990.0	5455.5	5768.1	5975.9	6092.3	5888.0	5470.3	5030.6	4602.7	55°
57.5°	4226.6	4668.2	5078.4	5568.4	5938.9	6113.2	6141.7	5891.6	5439.8	4983.4	4579.8	57.5°
60°	4259.1	4690.1	5118.5	5647.6	6058.8	6154.3	6102.5	5809.3	5334.5	4844.6	4432.4	60°
62.5°	4255.6	4662.7	5097.7	5674.1	6082.7	6094.9	5977.0	5669.0	5140.9	4553.4	4187.5	62.5°
65°	4165.1	4562.5	4980.3	5576.0	5971.4	5919.0	5770.6	5405.7	4764.3	4173.2	3988.2	65°
67.5°	3904.3	4285.5	4673.3	5254.7	5657.8	5606.9	5382.3	4888.3	4326.7	3836.8	3737.1	67.5°
70°	3468.2	3791.5	4132.0	4642.8	5065.7	4997.0	4604.2	4303.8	3893.2	3448.0	3413.4	70°
72.5°	2899.6	3144.5	3391.5	3771.7	4062.9	3922.6	3675.7	3659.9	3328.0	2988.0	2995.1	72.5°
75°	2267.8	2451.8	2567.2	2790.8	2984.4	2858.9	2873.6	2961.1	2851.7	2583.9	2497.0	75°
77.5°	1643.2	1819.5	1856.1	1988.8	2125.0	2267.8	2456.9	2662.7	2697.2	2546.8	2231.7	77.5°
80°	1075.4	1269.6	1197.4	1244.7	1436.3	1697.0	2042.1	2381.1	2497.5	2362.3	1974.5	80°
82.5°	634.3	906.2	791.3	872.2	993.6	1220.8	1459.2	1714.8	1909.5	1765.6	1649.3	82.5°
85°	481.8	714.6	756.8	854.9	894.5	904.1	945.8	1029.2	1129.8	1167.4	1164.4	85°
87.5°	251.1	555.5	623.6	576.8	538.3	466.6	363.9	391.9	358.3	490.0	464.0	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°
849.3	849.3	849.3	849.3	849.3	849.3	849.3
898.6	897.1	898.1	898.6	898.6	898.6	899.6
919.4	915.4	913.8	913.8	913.3	911.8	911.3
941.8	934.7	932.1	929.1	926.5	925.0	922.4
982.0	975.8	963.1	956.0	949.4	944.8	940.7
1035.8	1027.1	1015.0	1005.8	995.6	992.6	987.5
1119.2	1111.6	1100.9	1090.7	1084.6	1073.9	1066.3
1249.3	1234.0	1223.3	1210.1	1195.4	1173.5	1162.9
1420.6	1390.1	1368.7	1357.0	1327.6	1324.0	1298.0
1617.2	1608.1	1575.5	1561.3	1532.9	1521.7	1481.0
1911.5	1904.4	1837.8	1830.7	1787.0	1754.5	1691.5
2298.3	2239.9	2164.6	2112.2	2037.5	1953.7	1846.4
2636.3	2516.8	2402.0	2280.0	2176.8	2056.4	1934.9
2851.7	2691.7	2543.8	2418.7	2291.2	2147.8	1991.8
3040.9	2879.2	2718.1	2570.2	2415.7	2232.2	2039.6
3267.0	3106.4	2924.9	2717.1	2518.9	2294.2	2058.9
3498.8	3310.7	3084.1	2829.4	2580.4	2324.7	2055.4
3736.1	3495.7	3194.3	2904.1	2619.5	2329.3	2031.5
3928.7	3624.8	3276.1	2942.2	2627.6	2313.5	2001.5
4064.9	3707.6	3312.7	2955.4	2617.4	2288.6	1960.8
4142.7	3752.9	3321.9	2945.8	2596.6	2253.1	1916.6
4171.1	3766.6	3312.7	2926.0	2577.8	2215.0	1885.6
4168.1	3759.0	3279.2	2879.7	2527.5	2164.1	1847.5
4110.7	3688.3	3210.6	2824.3	2484.8	2140.7	1850.0
4013.1	3643.6	3190.3	2835.5	2507.2	2191.0	1930.3
3968.9	3733.1	3304.6	2947.3	2622.1	2334.9	2096.0
3944.0	3878.4	3468.2	3067.7	2758.3	2509.2	2293.7
3842.3	3920.1	3561.3	3136.4	2879.7	2684.0	2491.4
3678.2	3823.0	3490.6	3123.2	2946.8	2818.2	2562.6
3335.6	3488.6	3176.0	2928.5	2863.0	2820.2	2455.9
2702.3	2781.6	2603.8	2547.8	2572.2	2572.7	2059.9
1992.8	1945.1	1864.7	1868.8	2033.0	2007.5	1468.3
1626.9	1331.6	1217.8	1261.0	1463.8	1354.5	922.4
1514.0	1187.8	980.4	990.6	1105.4	872.6	555.5
1224.4	1082.6	868.1	779.2	756.2	581.5	377.1
512.3	471.1	350.7	316.1	259.2	158.6	72.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)