

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: P146036

Luminaire Tested: **LDRL-SLR-F02-E-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146036  
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-F02-E-7050  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4563.1 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G2

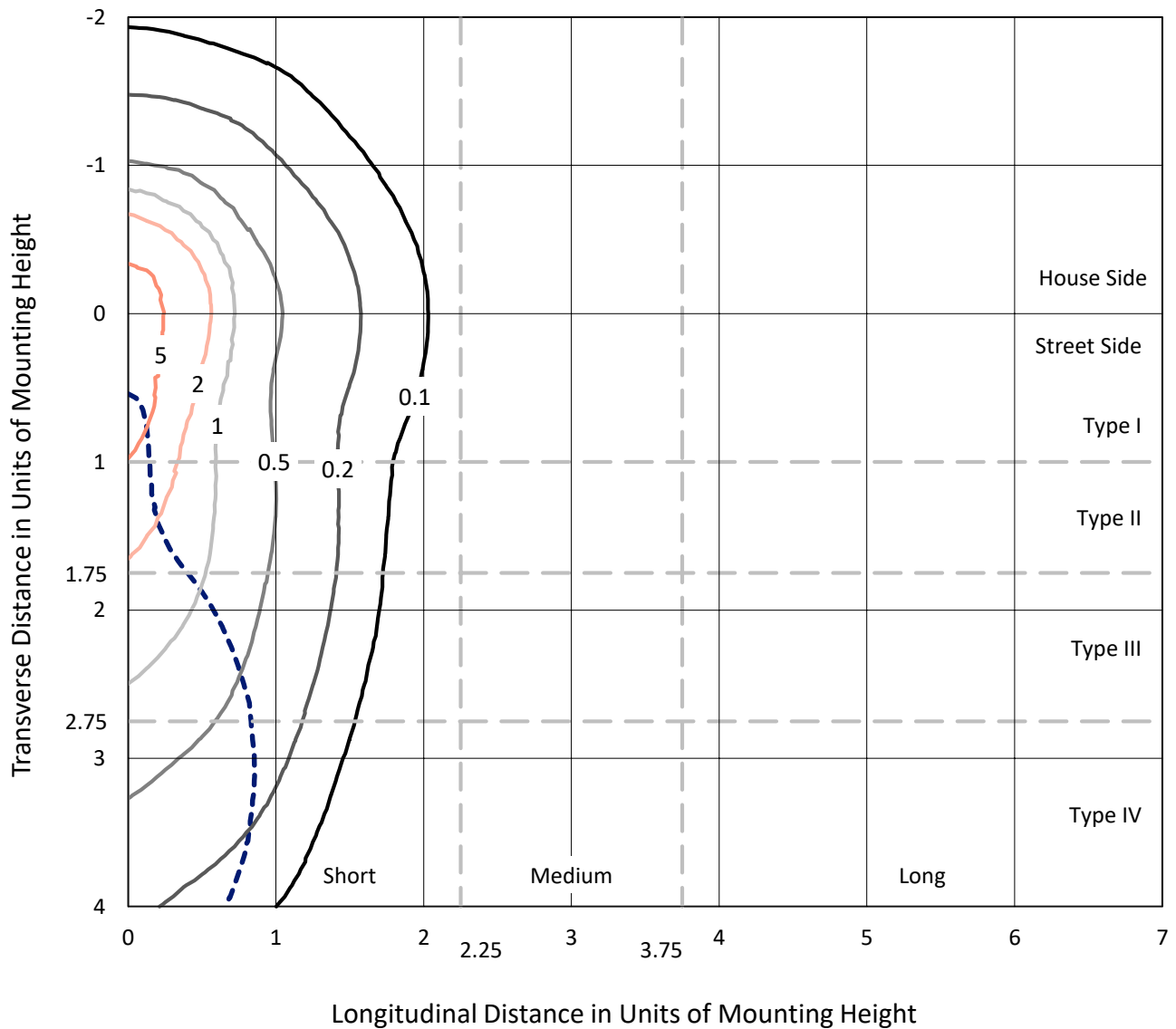
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

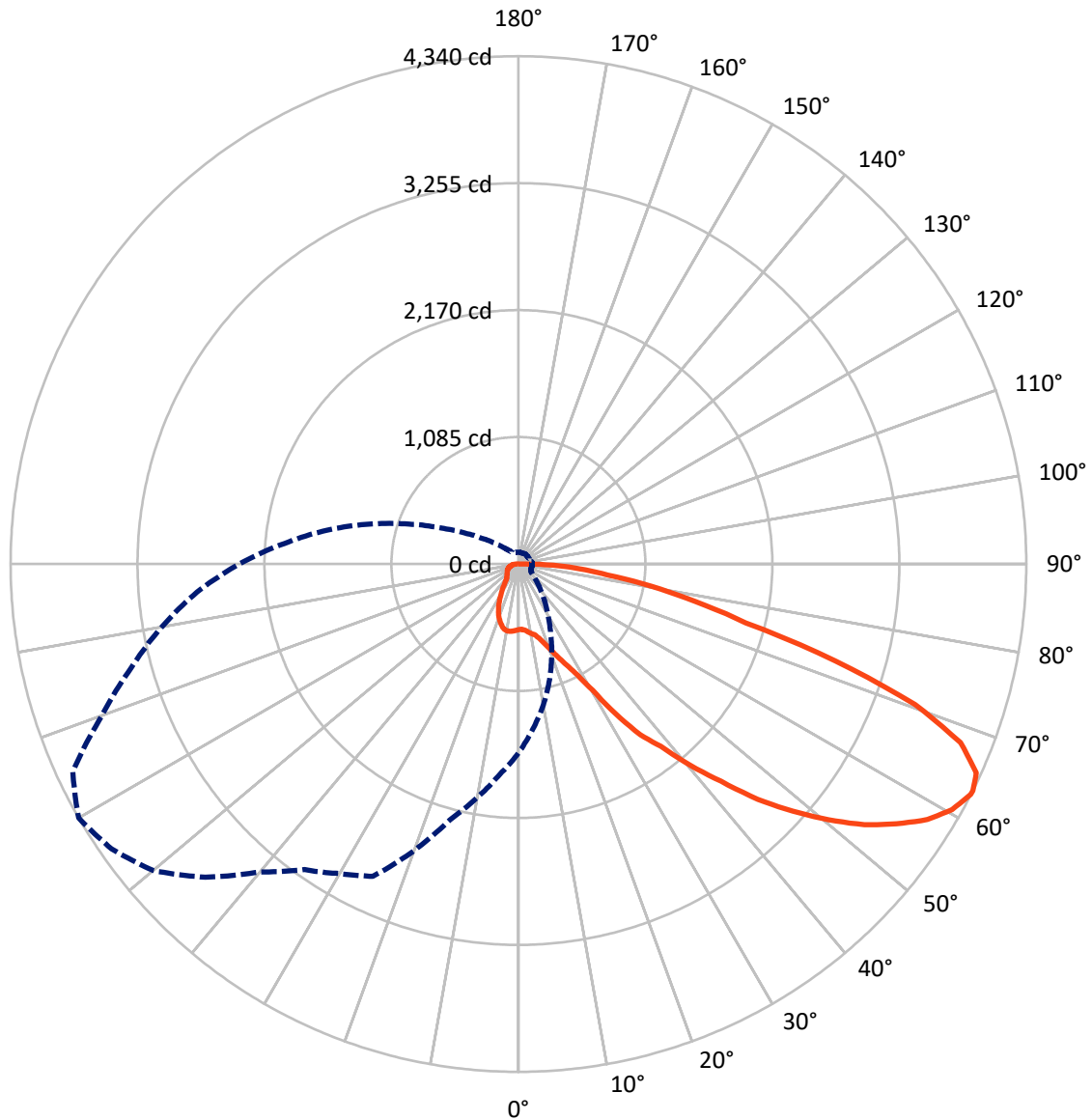
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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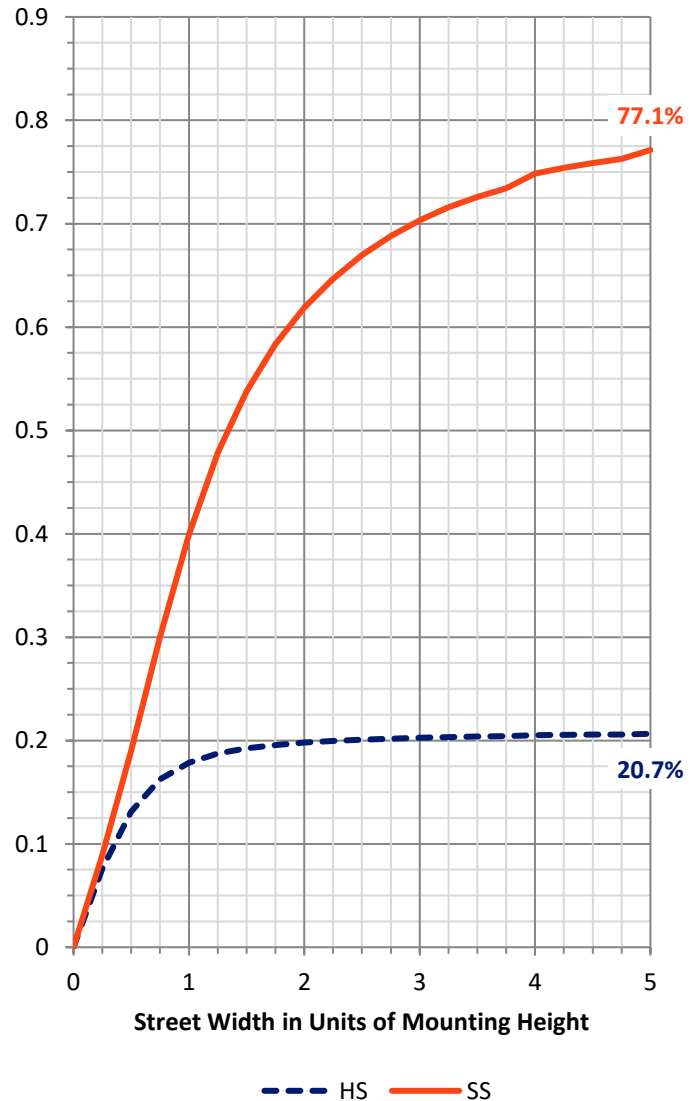
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	955.2	0.0	955.2
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3607.9	0.0	3607.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4563.1	0.0	4563.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.0	1.2
10°-20°	171.8	3.8
20°-30°	303.8	6.7
30°-40°	479.6	10.5
40°-50°	705.2	15.5
50°-60°	929.0	20.4
60°-70°	1035.5	22.7
70°-80°	680.3	14.9
80°-90°	202.9	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°	4563.1	100.0
0°-180°	4563.1	100.0



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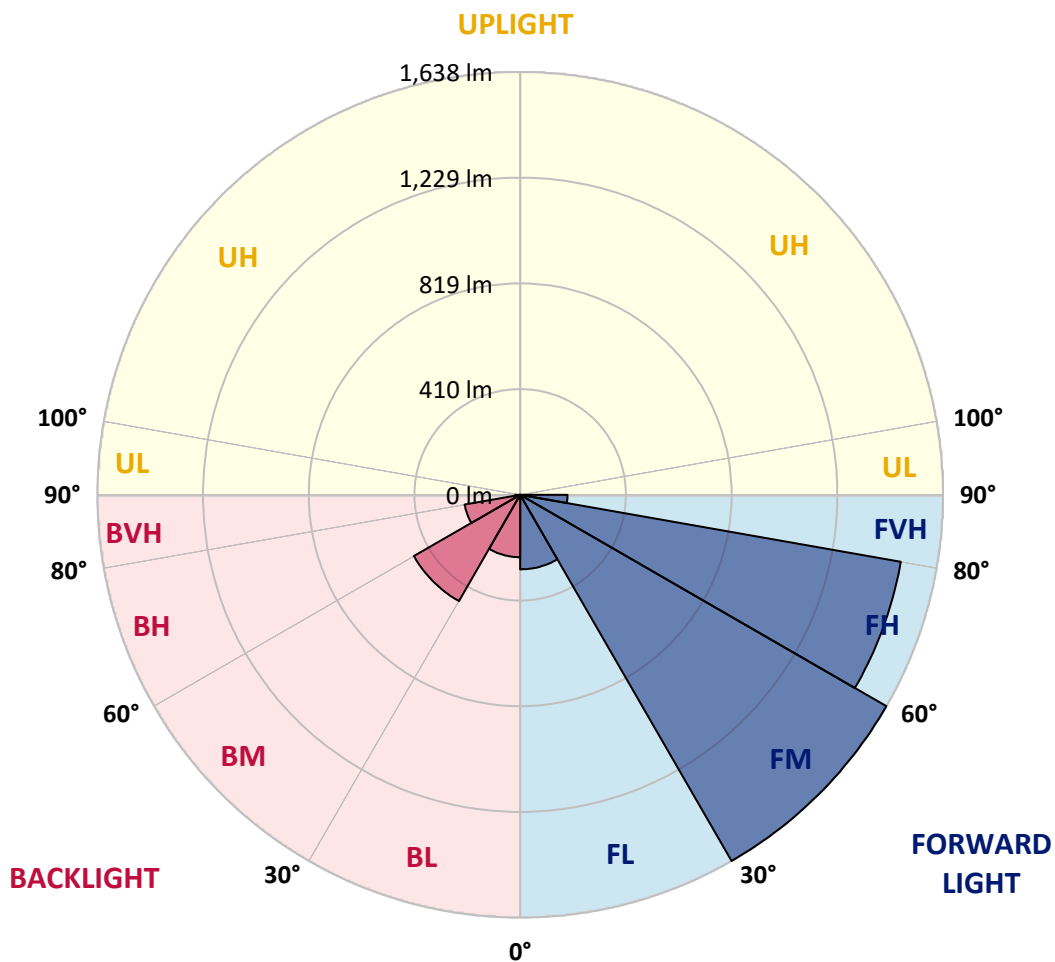
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	288.8	6.3			
FM	(30°-60°)	1638.3	35.9			
FH	(60°-80°)	1497.5	32.8			G1/1800
FVH	(80°-90°)	183.4	4.0			G2/225
BL	(0°-30°)	241.8	5.3	B1/500		
BM	(30°-60°)	475.6	10.4	B1/1000		
BH	(60°-80°)	218.3	4.8	B1/500		G1/500
BVH	(80°-90°)	19.5	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	559.7	560.8	560.8	559.7	560.8	560.4	560.4	561.4	561.8	563.5	562.5
5°	557.0	557.4	557.7	557.0	557.4	557.4	558.1	559.1	559.4	561.4	560.4
7.5°	554.0	554.7	553.3	553.6	554.7	556.0	556.0	557.4	559.7	560.8	560.4
10°	555.7	555.0	554.0	553.6	554.3	554.7	555.3	557.7	559.7	560.8	562.5
12.5°	568.9	566.9	565.8	565.5	565.8	565.2	567.5	568.2	568.9	570.3	569.6
15°	594.0	591.3	589.6	587.9	591.6	589.9	589.9	587.9	584.5	579.4	573.0
17.5°	628.9	625.8	624.5	623.8	624.1	621.1	615.0	605.2	593.3	579.7	567.2
20°	679.0	683.8	681.7	672.6	669.2	655.6	636.3	616.0	595.3	573.6	553.0
22.5°	765.8	763.0	753.9	731.2	710.9	680.4	645.8	612.9	582.4	550.9	523.8
25°	866.4	843.7	817.9	773.2	726.5	676.3	626.5	587.5	546.9	512.3	479.8
27.5°	989.7	940.6	874.9	802.0	732.2	665.5	606.5	555.0	508.6	471.7	435.4
30°	1111.0	1029.0	937.5	841.0	746.8	656.7	578.7	519.1	465.6	418.1	381.5
32.5°	1195.1	1095.8	981.9	862.7	748.1	642.4	548.2	477.1	416.8	369.0	324.9
35°	1264.2	1140.2	997.5	859.3	726.5	609.2	504.5	425.6	361.5	312.1	273.4
37.5°	1311.6	1162.9	996.5	839.6	687.8	556.4	454.4	374.1	314.4	268.4	232.8
40°	1344.8	1170.0	983.3	806.1	643.4	505.2	400.8	327.6	275.5	239.6	213.8
42.5°	1360.7	1165.2	963.6	774.2	599.4	463.9	360.5	296.5	254.1	227.0	208.0
45°	1367.5	1153.7	941.6	743.1	563.5	428.3	339.8	287.0	253.8	230.4	209.7
47.5°	1365.8	1141.2	922.0	717.3	542.1	418.8	343.9	299.9	266.3	237.2	210.8
50°	1361.1	1129.7	909.4	707.8	541.8	433.0	366.6	321.5	280.9	243.3	209.7
52.5°	1360.7	1128.6	916.2	719.0	561.4	465.2	400.8	346.6	295.1	250.1	210.1
55°	1368.9	1146.9	945.0	749.2	608.9	510.3	439.5	373.4	311.0	254.8	209.1
57.5°	1401.7	1192.7	999.5	816.6	669.9	565.2	476.7	393.4	317.1	253.4	204.3
60°	1473.9	1273.0	1083.6	911.8	748.1	615.3	498.8	400.2	314.4	245.3	194.1
62.5°	1586.4	1389.2	1198.8	1005.3	817.6	645.5	503.8	394.7	303.6	231.8	181.6
63°	1615.2	1416.0	1222.2	1024.6	829.5	648.5	503.5	392.7	300.5	228.4	178.6
65°	1735.5	1530.8	1316.0	1088.3	861.3	654.6	495.7	379.8	287.0	212.4	164.7
67.5°	1916.4	1657.6	1409.2	1147.6	878.9	643.8	471.3	348.0	252.1	184.7	144.0
70°	2037.0	1741.6	1464.8	1166.9	858.3	594.3	415.4	291.7	206.0	152.1	123.0
72.5°	2040.1	1666.4	1389.5	1066.6	741.0	490.3	325.3	220.6	160.3	123.7	106.1
75°	1822.2	1408.2	1135.8	875.9	570.3	346.6	228.7	160.9	123.0	102.0	91.8
77.5°	1354.6	1027.3	819.6	589.2	370.3	224.6	159.3	119.3	97.6	84.4	76.9
80°	840.6	642.1	497.4	352.4	221.9	149.4	116.6	94.9	82.0	70.5	64.4
82.5°	506.9	359.5	280.9	212.8	142.0	107.7	89.8	80.0	69.5	59.3	54.6
85°	371.4	257.2	188.4	131.5	87.8	71.2	63.0	61.0	53.9	45.7	43.0
87.5°	116.9	122.7	127.4	77.6	42.4	32.2	27.4	32.2	30.8	21.7	23.7
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°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	564.2	565.5	564.5	564.5	563.8	563.5	565.8	565.2	565.8	565.5	566.2
5°	562.1	563.1	562.5	563.1	562.5	562.5	565.5	565.5	566.9	567.5	569.2
7.5°	562.8	563.1	562.8	563.8	563.1	562.5	564.2	565.2	567.5	569.6	571.3
10°	565.2	566.2	565.8	565.8	563.8	562.5	563.5	564.2	566.5	567.5	569.6
12.5°	570.9	569.6	566.9	565.2	560.4	557.7	556.4	555.7	557.4	558.7	559.7
15°	569.6	562.1	556.0	550.9	543.8	539.4	536.0	535.7	536.0	536.4	537.4
17.5°	555.7	545.5	533.3	526.9	518.7	514.0	511.6	509.9	509.6	510.3	512.0
20°	535.7	520.8	507.2	496.0	487.2	479.8	481.5	477.8	479.4	480.5	483.5
22.5°	505.2	484.5	468.9	455.4	444.9	437.1	437.1	433.7	434.4	437.4	441.5
25°	455.7	436.4	414.1	404.6	392.7	387.3	386.3	385.6	388.3	392.0	394.4
27.5°	411.0	384.6	362.5	350.0	337.5	338.8	332.1	336.1	339.2	342.2	344.9
30°	350.7	329.0	309.0	296.5	281.6	281.9	282.9	283.6	286.3	290.4	295.8
32.5°	292.7	269.4	250.7	237.2	228.4	225.7	221.9	228.0	231.4	235.5	240.9
35°	245.0	220.6	205.0	193.1	188.1	184.3	183.3	182.6	185.7	187.7	192.1
37.5°	210.8	194.1	182.6	174.2	169.4	165.3	164.3	163.7	163.3	162.6	165.3
40°	196.9	183.6	173.8	166.0	161.6	159.3	158.2	156.9	155.5	153.8	153.5
42.5°	192.8	178.6	167.0	159.3	155.9	155.5	155.5	154.8	153.5	151.1	149.4
45°	191.1	173.8	160.6	154.5	152.1	152.5	152.5	152.5	151.5	149.1	146.4
47.5°	188.1	168.1	154.5	149.4	148.4	149.1	149.8	149.8	149.1	147.1	144.0
50°	182.3	159.3	145.0	140.3	139.9	140.3	140.3	141.0	140.3	138.6	135.9
52.5°	177.9	152.5	137.9	134.2	134.2	133.8	133.5	133.5	133.2	131.8	129.8
55°	173.8	148.1	134.9	131.8	132.5	132.5	131.8	131.5	130.1	128.4	126.4
57.5°	168.1	143.3	131.8	129.8	130.4	130.1	129.8	129.4	128.1	126.0	123.3
60°	157.9	134.9	125.7	124.4	125.4	125.7	127.1	127.4	126.7	124.4	120.6
62.5°	146.7	124.4	117.6	116.6	117.6	118.6	119.6	118.9	118.9	116.6	113.2
63°	143.0	122.7	115.2	115.2	116.2	117.2	117.9	117.2	117.6	114.9	111.5
65°	134.5	116.6	110.8	111.1	112.2	112.8	113.2	113.2	112.8	110.8	107.7
67.5°	120.3	107.7	104.4	106.1	107.4	107.7	107.7	108.4	107.7	106.4	103.7
70°	107.4	99.3	96.9	98.9	99.6	100.0	100.0	100.0	99.3	97.9	95.6
72.5°	97.6	93.5	93.2	92.8	93.2	92.2	92.2	91.5	89.8	88.8	86.7
75°	86.7	84.7	85.0	84.7	84.0	83.7	82.0	81.3	79.3	77.9	75.2
77.5°	74.5	74.9	74.5	74.9	75.6	75.9	73.5	71.8	70.1	68.8	67.4
80°	62.0	62.7	62.0	62.7	63.0	63.0	60.7	57.9	56.6	57.6	57.9
82.5°	55.2	55.2	52.5	53.2	52.5	51.5	49.8	48.8	47.8	47.1	48.8
85°	43.7	44.0	44.7	44.0	42.7	41.7	40.0	38.6	37.6	38.6	41.0
87.5°	26.1	28.1	27.1	27.1	26.8	26.8	25.4	24.7	23.7	27.8	29.8
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	565.8	566.9	567.2	566.9	567.2	567.9	565.2	567.9	568.2	566.2	566.9
5°	570.6	572.3	574.7	574.7	576.4	577.4	576.0	579.7	580.4	580.1	581.8
7.5°	574.0	576.4	579.4	581.1	584.1	585.5	586.5	589.9	590.6	591.9	593.3
10°	573.6	577.0	579.7	584.5	588.2	590.9	593.0	596.7	598.0	600.1	601.1
12.5°	563.8	567.5	572.6	579.4	586.2	590.6	596.0	601.4	603.5	606.2	607.9
15°	541.8	544.8	552.0	560.8	569.9	581.1	588.9	597.4	601.1	603.8	606.2
17.5°	513.0	515.7	522.1	529.9	542.1	553.0	564.8	577.7	584.1	587.2	588.2
20°	486.2	490.3	492.0	501.1	505.2	516.0	526.2	540.4	548.6	554.0	557.4
22.5°	444.2	446.2	455.0	458.8	461.8	468.6	481.1	493.7	504.5	513.3	516.0
25°	397.8	403.2	408.0	411.0	418.1	418.5	428.6	437.4	451.0	459.5	466.2
27.5°	346.6	354.8	357.5	359.5	364.9	371.4	375.1	383.9	391.7	401.5	413.7
30°	295.1	302.9	308.3	311.4	316.5	322.6	325.3	331.0	341.2	352.0	361.5
32.5°	247.0	255.1	257.8	267.7	269.0	274.8	276.8	286.0	291.7	300.9	312.1
35°	199.9	208.4	216.5	221.9	228.0	227.7	233.1	241.6	246.7	256.2	263.6
37.5°	167.7	172.8	178.6	184.7	191.4	196.5	201.6	205.3	209.4	215.8	222.6
40°	153.5	154.8	157.2	160.9	165.7	169.4	173.1	176.2	179.2	184.3	188.7
42.5°	147.7	146.7	146.7	146.0	147.7	149.8	152.8	153.8	158.6	161.6	163.3
45°	143.7	141.3	139.6	137.6	136.9	137.6	139.3	141.6	144.7	145.7	145.7
47.5°	141.3	137.6	134.9	131.8	130.1	130.1	131.1	132.8	134.5	134.9	134.5
50°	133.2	129.4	126.0	123.3	122.0	122.0	122.3	124.7	125.0	124.4	124.7
52.5°	127.1	123.3	119.9	117.6	115.9	116.2	117.2	118.3	119.3	118.6	117.9
55°	123.3	118.9	115.9	113.2	111.1	111.8	112.8	114.2	115.9	114.9	113.8
57.5°	119.9	116.2	112.5	109.8	107.4	108.1	109.1	111.1	113.2	111.1	109.8
60°	116.9	113.2	109.4	106.7	104.0	104.7	106.1	108.1	109.8	107.1	105.4
62.5°	109.4	106.1	103.3	102.0	100.3	101.3	102.3	104.7	104.0	101.3	99.3
63°	108.1	104.7	102.3	101.0	99.6	101.0	101.3	103.7	102.7	100.0	98.3
65°	104.0	101.3	98.9	97.6	96.2	96.9	96.9	97.9	96.6	94.5	93.2
67.5°	100.3	97.2	94.9	92.2	90.8	90.1	89.8	89.5	88.4	87.4	87.1
70°	92.2	90.1	88.1	85.7	83.7	82.3	81.7	81.0	80.3	80.0	79.6
72.5°	83.4	81.7	79.6	78.3	76.6	75.6	73.9	73.5	72.8	72.2	71.8
75°	73.9	71.8	71.2	69.8	68.8	68.1	66.7	66.4	65.7	64.7	64.4
77.5°	65.4	64.7	63.7	63.4	61.7	60.7	60.0	59.6	59.0	58.3	57.6
80°	58.3	57.9	57.3	56.9	55.9	54.6	53.9	54.2	53.2	52.9	51.8
82.5°	52.5	52.9	52.9	51.8	50.8	49.1	48.5	49.5	48.8	47.4	46.1
85°	44.7	44.4	44.7	44.4	42.4	40.7	40.0	40.7	40.3	38.3	37.9
87.5°	31.9	31.5	30.8	32.9	30.2	24.4	25.1	28.5	27.4	26.4	25.8
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	568.2	567.2	567.9	568.2	567.2	569.6	567.2	567.5	568.2	566.2	565.8
5°	583.1	583.1	585.8	586.2	585.8	588.9	588.5	588.9	588.2	587.9	586.5
7.5°	595.3	596.7	598.7	601.8	602.8	605.2	605.8	606.2	607.5	608.9	608.2
10°	604.1	607.9	609.6	612.6	615.7	617.3	619.0	621.8	622.8	623.8	622.4
12.5°	610.2	614.6	617.3	621.1	624.8	627.5	630.6	634.0	637.3	638.4	636.7
15°	607.2	612.3	616.3	620.4	626.2	631.2	637.0	643.1	647.5	649.2	647.2
17.5°	588.2	593.3	599.4	605.5	611.6	621.1	629.2	639.4	646.5	651.6	652.2
20°	562.1	565.2	574.0	580.1	589.9	601.1	613.3	625.1	633.3	642.4	647.8
22.5°	523.5	529.6	539.4	549.9	559.7	574.3	587.2	602.8	616.7	629.2	641.1
25°	476.4	484.9	496.4	511.0	523.8	539.4	558.1	575.3	598.7	618.4	643.8
27.5°	425.6	441.2	457.1	472.3	486.6	504.2	523.5	542.8	569.6	601.1	634.3
30°	377.5	390.3	410.3	427.9	444.5	466.2	486.2	507.6	533.0	570.3	607.9
32.5°	327.3	337.8	353.4	375.1	394.4	419.8	437.4	462.8	492.3	531.6	574.3
35°	275.5	290.0	302.6	317.5	332.1	357.5	383.9	412.0	445.9	487.9	534.7
37.5°	229.7	238.9	245.0	260.2	273.1	294.8	325.6	359.5	396.8	439.5	489.6
40°	191.8	197.5	204.3	214.5	225.3	245.0	273.4	311.4	350.4	393.0	443.2
42.5°	165.7	169.4	170.1	177.9	188.1	207.4	230.1	265.0	308.0	352.7	402.9
45°	147.7	147.7	147.4	150.8	158.9	175.5	196.2	227.4	268.4	315.1	367.3
47.5°	135.2	136.2	135.9	137.2	142.6	154.8	173.5	199.9	237.2	282.9	335.4
50°	125.7	127.1	127.4	127.7	129.8	139.9	155.9	177.2	210.4	254.1	307.0
52.5°	118.3	118.6	118.6	118.3	118.9	124.7	137.9	157.6	188.4	227.7	278.5
55°	114.2	114.5	114.5	114.5	114.5	118.3	127.7	143.7	168.4	205.3	251.4
57.5°	109.4	109.4	110.1	110.1	110.1	111.5	118.3	131.5	150.4	179.9	220.9
60°	105.4	106.4	107.7	108.1	107.7	107.7	111.1	119.9	132.5	153.8	188.4
62.5°	99.3	100.6	102.3	103.0	103.3	102.7	104.4	108.1	115.5	126.7	150.1
63°	98.3	99.6	101.0	101.6	102.0	101.3	102.7	105.7	111.8	121.0	142.0
65°	93.9	95.6	95.9	96.2	95.9	95.6	95.2	95.2	96.9	100.3	111.5
67.5°	87.8	88.8	88.8	89.5	87.8	87.1	86.4	85.7	84.7	85.0	89.1
70°	80.6	81.3	81.0	80.6	80.0	78.9	78.3	77.3	75.2	74.5	76.6
72.5°	72.5	73.2	73.2	73.2	71.8	71.2	70.5	69.8	69.1	69.8	70.5
75°	65.1	65.1	65.7	65.4	64.4	63.7	63.4	63.0	63.0	63.0	62.7
77.5°	57.9	57.6	57.6	56.6	55.9	55.6	56.2	56.6	56.2	55.6	55.2
80°	51.8	50.1	48.5	47.1	46.8	47.4	48.1	50.1	49.1	49.1	48.5
82.5°	44.0	40.3	37.9	38.3	37.3	37.6	38.3	40.7	40.0	40.3	41.7
85°	35.2	31.9	28.1	28.8	28.8	28.1	29.8	30.5	31.2	32.9	31.5
87.5°	24.7	21.7	18.0	15.6	16.3	16.9	17.6	16.9	14.9	15.6	15.2
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°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	565.2	565.5	565.5	563.1	562.5	563.1	562.8	562.8	560.8	561.1	560.4
5°	585.8	586.5	584.5	582.8	580.4	580.1	579.7	578.4	577.0	574.3	573.0
7.5°	607.9	604.8	604.1	601.1	600.1	597.4	595.3	593.3	591.6	590.2	589.2
10°	621.8	619.4	618.7	613.3	611.6	608.2	606.2	603.8	601.8	599.7	599.4
12.5°	634.3	630.2	627.9	620.4	617.0	613.3	611.6	609.6	608.9	608.5	609.9
15°	644.1	638.4	634.0	627.2	624.5	622.4	622.8	621.8	625.8	628.2	632.6
17.5°	650.6	648.2	647.2	642.1	643.8	643.8	648.5	650.9	658.3	664.4	670.5
20°	653.9	658.3	666.8	668.5	672.6	677.0	684.1	688.2	696.0	704.8	713.2
22.5°	657.0	675.6	692.9	705.8	714.9	725.1	730.2	738.6	744.1	750.5	763.4
25°	673.9	705.1	735.6	752.2	773.9	788.5	800.0	808.4	817.9	823.4	837.9
27.5°	669.2	708.8	749.5	780.0	813.9	841.3	865.7	882.0	894.2	913.8	926.0
30°	647.5	693.6	742.7	786.1	833.5	878.2	920.6	958.6	991.1	1017.5	1035.5
32.5°	616.7	669.5	727.1	780.7	841.3	900.9	961.9	1019.9	1075.1	1118.8	1146.3
35°	582.1	639.0	702.7	766.1	838.9	916.9	999.2	1077.1	1157.1	1226.9	1281.8
37.5°	540.1	601.8	671.6	745.1	828.8	922.3	1026.0	1132.0	1234.0	1339.7	1417.0
40°	496.0	556.4	628.9	712.9	809.5	919.6	1046.6	1184.2	1331.9	1468.2	1585.7
42.5°	458.4	517.4	593.3	676.3	780.3	909.4	1060.5	1231.0	1412.9	1589.5	1745.7
45°	421.5	484.5	561.1	648.9	762.4	905.4	1078.5	1271.6	1479.3	1688.7	1888.0
47.5°	392.4	454.7	532.0	626.2	747.8	903.0	1095.4	1309.6	1533.5	1762.6	1998.8
50°	364.6	424.2	499.4	598.7	732.6	899.3	1105.6	1339.7	1575.9	1820.5	2077.4
52.5°	336.1	398.1	471.3	567.5	712.6	891.8	1108.7	1363.5	1619.6	1876.1	2150.9
55°	307.3	369.3	442.5	542.1	685.5	877.2	1106.3	1380.7	1665.4	1934.7	2218.0
57.5°	272.1	333.1	409.6	509.9	650.6	848.1	1094.8	1388.2	1693.8	1989.6	2285.4
60°	232.4	290.0	362.5	464.9	607.9	806.1	1069.0	1377.7	1706.7	2025.9	2356.9
62.5°	182.6	232.8	299.5	401.2	545.9	745.4	1012.8	1331.3	1675.5	2016.7	2387.7
63°	171.4	219.9	288.7	384.2	527.6	724.4	996.2	1315.3	1661.6	2008.2	2384.0
65°	130.8	166.7	223.6	309.0	445.9	627.5	908.7	1225.2	1574.2	1923.9	2325.4
67.5°	96.6	115.2	150.1	207.4	313.8	488.3	744.7	1058.2	1388.5	1717.2	2125.8
70°	80.0	87.1	103.3	132.8	194.1	323.9	526.2	805.4	1116.1	1399.0	1768.0
72.5°	71.5	76.6	84.0	97.2	122.7	190.1	342.2	522.8	777.3	1021.9	1333.6
75°	64.0	67.4	73.5	81.3	92.8	118.9	180.9	310.0	475.0	688.5	914.8
77.5°	56.2	59.6	65.7	71.8	79.3	90.5	112.2	176.5	284.3	401.9	561.4
80°	48.8	50.5	55.6	64.4	69.8	78.9	86.1	110.5	154.8	210.4	299.2
82.5°	40.3	40.7	44.0	50.8	57.6	61.0	63.0	69.5	89.1	111.1	146.7
85°	28.8	27.4	29.5	32.2	37.6	34.6	36.9	39.0	47.4	57.3	105.0
87.5°	12.9	10.2	11.9	13.2	11.9	8.1	11.9	9.8	12.2	24.1	27.1
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	0°
2.5°	561.1	559.1	559.1	558.7	559.1	558.4	557.0	557.0	558.1	557.7	557.7	2.5°
5°	573.0	570.3	569.6	569.2	569.2	567.5	565.5	564.5	564.2	562.8	561.8	5°
7.5°	588.5	586.9	587.9	585.8	585.2	584.8	582.1	580.1	577.0	575.7	570.6	7.5°
10°	601.4	600.4	603.1	602.8	603.1	603.1	599.4	597.4	593.0	590.6	584.1	10°
12.5°	612.6	613.3	618.4	618.4	619.4	620.7	618.7	614.3	612.6	610.2	603.5	12.5°
15°	641.1	643.8	647.5	653.6	655.3	655.6	657.3	653.6	649.2	643.1	635.0	15°
17.5°	679.7	685.1	697.7	706.5	708.2	709.8	708.8	708.2	700.0	694.9	686.5	17.5°
20°	728.1	741.4	759.0	771.2	776.6	777.3	784.1	779.3	771.9	761.7	749.5	20°
22.5°	782.4	804.4	826.7	844.7	855.2	860.0	867.1	860.3	850.5	844.4	828.1	22.5°
25°	856.6	880.6	906.4	920.6	947.4	955.2	959.2	957.2	947.0	951.4	936.5	25°
27.5°	958.2	978.9	1015.1	1033.1	1058.2	1072.7	1069.7	1086.6	1089.7	1100.2	1101.9	27.5°
30°	1069.0	1103.2	1152.0	1188.3	1226.6	1251.3	1271.0	1285.9	1303.1	1332.3	1349.9	30°
32.5°	1188.6	1238.1	1300.4	1377.3	1458.7	1525.1	1600.0	1612.8	1651.5	1640.3	1632.8	32.5°
35°	1321.8	1384.1	1464.1	1565.1	1683.3	1793.1	1865.3	1901.5	1916.8	1925.2	1873.7	35°
37.5°	1500.0	1584.4	1673.5	1783.6	1874.1	1976.7	2059.7	2149.9	2191.2	2171.6	2073.0	37.5°
40°	1697.5	1776.5	1897.1	1987.2	2094.0	2263.0	2375.5	2484.0	2517.8	2452.5	2297.9	40°
42.5°	1895.8	2004.2	2135.0	2263.0	2385.7	2538.9	2687.9	2795.0	2832.3	2720.5	2537.2	42.5°
45°	2072.3	2211.2	2365.0	2496.5	2667.9	2868.2	3050.8	3136.9	3130.1	2950.5	2744.2	45°
47.5°	2226.1	2406.4	2579.9	2757.1	2929.9	3155.9	3336.8	3435.7	3365.6	3176.9	2943.1	47.5°
50°	2353.2	2571.0	2780.4	2984.1	3196.2	3436.4	3610.9	3702.4	3595.7	3356.8	3095.6	50°
52.5°	2449.7	2719.8	2961.0	3188.7	3442.2	3701.7	3856.9	3912.1	3745.8	3496.1	3209.7	52.5°
55°	2540.9	2846.2	3113.2	3371.7	3687.2	3919.9	4065.3	4055.1	3840.3	3556.7	3281.2	55°
57.5°	2609.7	2953.9	3238.2	3532.6	3872.5	4121.2	4205.2	4138.1	3879.6	3574.7	3301.9	57.5°
60°	2696.4	3038.0	3349.3	3678.0	4048.7	4259.1	4270.3	4150.0	3868.4	3540.8	3272.8	60°
62.5°	2752.0	3090.5	3420.2	3777.6	4182.9	4336.7	4256.7	4098.8	3804.0	3457.1	3206.0	62.5°
63°	2757.4	3095.6	3425.9	3787.4	4201.8	4340.1	4244.2	4075.8	3785.1	3434.0	3188.4	63°
65°	2733.0	3081.0	3399.5	3769.8	4206.6	4300.1	4152.4	3981.3	3680.4	3316.5	3084.7	65°
67.5°	2562.6	2924.4	3228.4	3575.7	4023.6	4075.5	3927.4	3741.4	3458.8	3063.0	2858.0	67.5°
70°	2257.3	2601.2	2816.7	3139.3	3533.3	3595.3	3462.8	3318.8	3067.8	2737.1	2567.0	70°
72.5°	1818.5	2156.3	2285.7	2532.8	2845.8	2832.3	2739.1	2721.1	2589.0	2311.5	2209.2	72.5°
75°	1359.4	1680.9	1735.5	1836.1	2011.0	2006.6	2028.2	2105.5	2171.6	2007.6	1876.4	75°
77.5°	896.5	1216.4	1250.3	1367.5	1416.0	1548.8	1704.7	1898.8	1995.0	1927.9	1767.0	77.5°
80°	496.0	832.2	825.4	871.1	956.9	1150.0	1386.2	1674.5	1867.0	1818.8	1642.6	80°
82.5°	257.8	525.9	518.1	526.2	605.8	768.1	947.7	1183.5	1382.4	1386.8	1327.5	82.5°
85°	191.8	377.5	399.8	418.1	471.0	527.6	560.4	636.0	745.1	846.7	883.0	85°
87.5°	70.5	226.7	282.2	303.3	304.6	297.5	242.3	266.7	242.6	287.0	400.8	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
560.4	560.4	560.4	560.4	560.4	560.4	560.4
558.4	558.4	558.1	558.7	559.1	560.1	559.7
560.8	559.7	558.7	558.1	557.4	557.7	557.0
566.9	563.5	560.8	558.4	556.4	556.0	554.0
580.4	574.3	569.2	565.5	561.4	559.4	555.7
597.7	590.9	584.5	579.1	574.3	571.6	568.9
627.9	618.0	610.2	604.5	599.7	596.7	594.0
672.6	660.4	648.5	637.3	636.0	628.9	628.9
734.2	717.6	702.4	692.9	688.5	679.0	679.0
819.6	803.4	780.7	769.1	770.2	762.0	765.8
930.1	916.5	893.2	888.4	888.4	879.6	866.4
1095.8	1091.0	1065.3	1071.7	1058.2	1025.3	989.7
1341.8	1341.8	1292.0	1256.0	1224.9	1173.7	1111.0
1588.1	1555.9	1479.7	1418.7	1354.0	1275.7	1195.1
1796.1	1710.4	1633.2	1558.6	1461.4	1377.3	1264.2
1971.7	1890.3	1801.9	1688.4	1574.2	1457.0	1311.6
2189.2	2090.2	1957.4	1814.8	1674.5	1513.2	1344.8
2388.1	2264.1	2096.3	1915.7	1737.2	1557.3	1360.7
2575.1	2415.2	2208.2	1991.3	1788.0	1584.4	1367.5
2751.3	2536.8	2295.9	2045.2	1822.9	1598.9	1365.8
2867.5	2625.9	2351.1	2077.7	1843.9	1604.0	1361.1
2940.4	2680.5	2383.7	2095.7	1854.4	1605.0	1360.7
2981.4	2711.3	2401.3	2108.2	1865.9	1611.1	1368.9
3013.2	2735.7	2420.9	2129.5	1893.4	1639.6	1401.7
3043.4	2799.8	2472.1	2168.9	1941.2	1692.8	1473.9
3055.9	2921.4	2576.1	2241.4	2007.9	1778.2	1586.4
3054.9	2944.4	2606.3	2261.4	2025.5	1800.9	1615.2
3018.0	3017.6	2743.5	2356.9	2107.5	1905.9	1735.5
2908.5	3054.2	2895.3	2482.9	2234.9	2079.1	1916.4
2735.4	3009.8	2916.0	2516.2	2325.4	2238.0	2037.0
2437.2	2797.7	2722.5	2374.5	2294.6	2269.1	2040.1
1971.3	2249.2	2217.0	2028.6	2058.1	2110.2	1822.2
1588.1	1579.3	1574.5	1506.1	1631.5	1737.5	1354.6
1326.5	1092.7	1014.8	988.4	1195.1	1276.4	840.6
1240.1	981.6	787.4	754.2	895.5	938.9	506.9
947.7	953.1	825.1	707.1	696.6	637.7	371.4
463.9	471.7	498.4	455.0	390.3	329.0	116.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)