

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: P146035

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146035  
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  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (14) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4447 lumens  
Efficiency: N/A  
Efficacy: 80.9 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

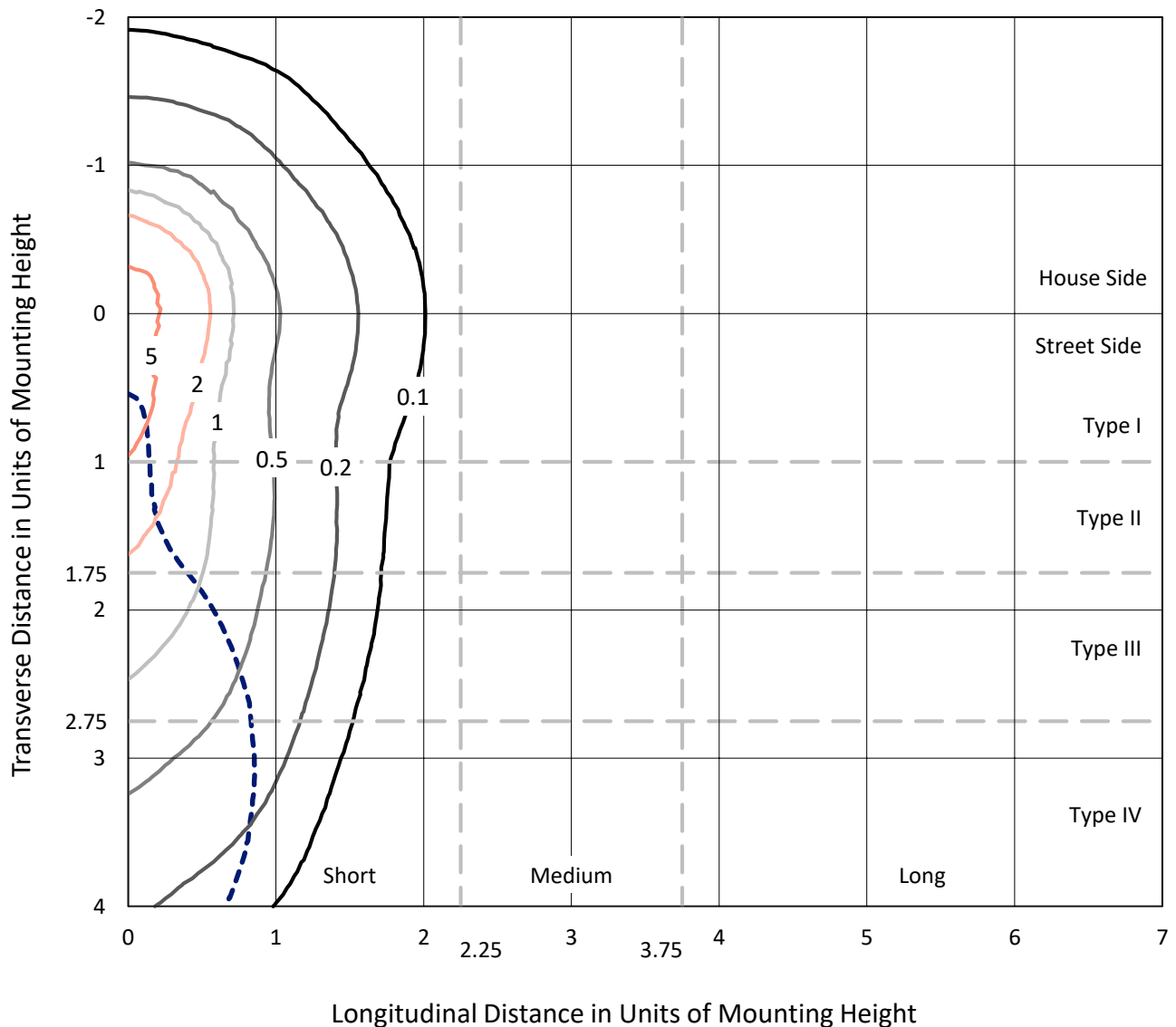
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

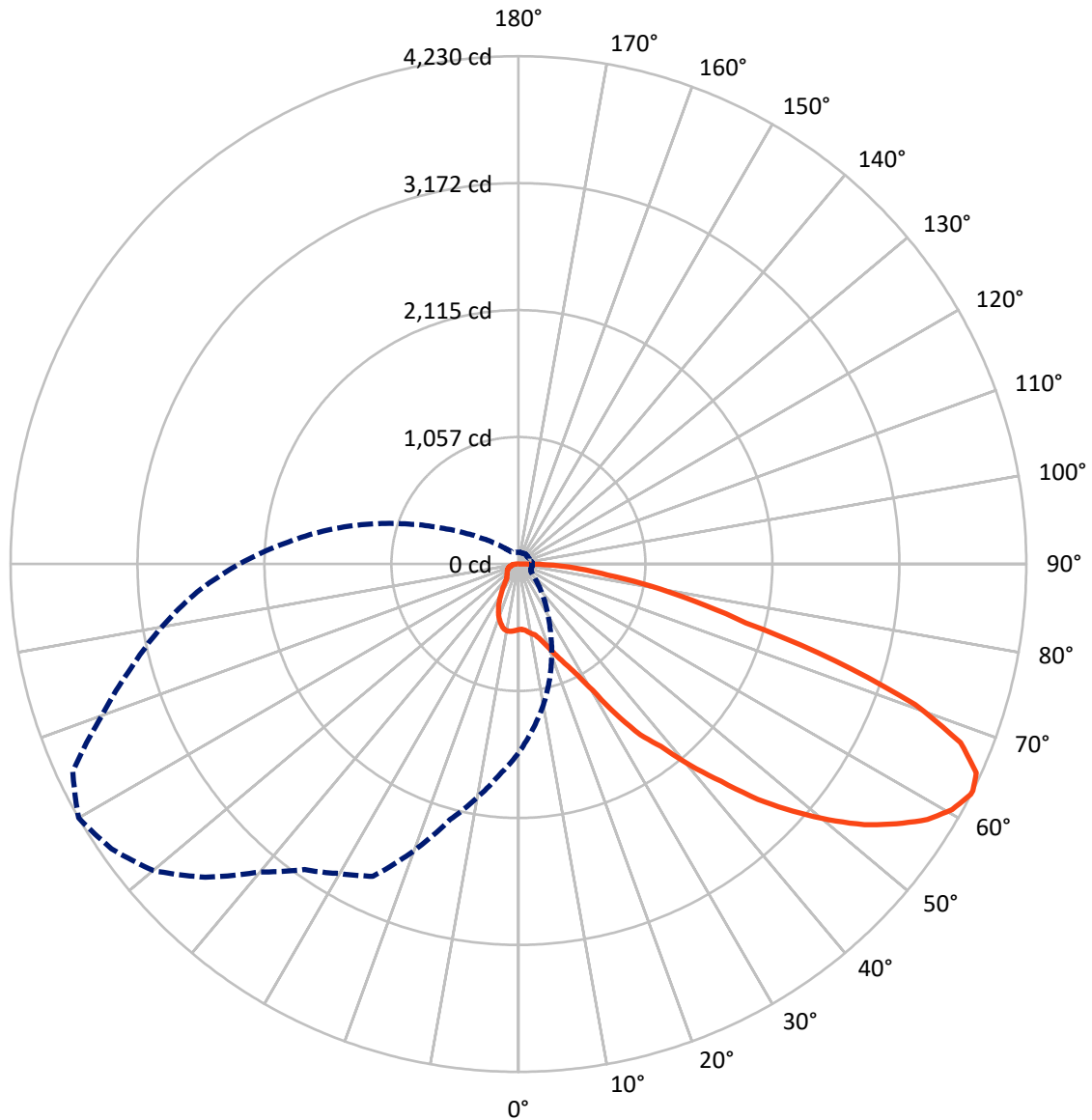
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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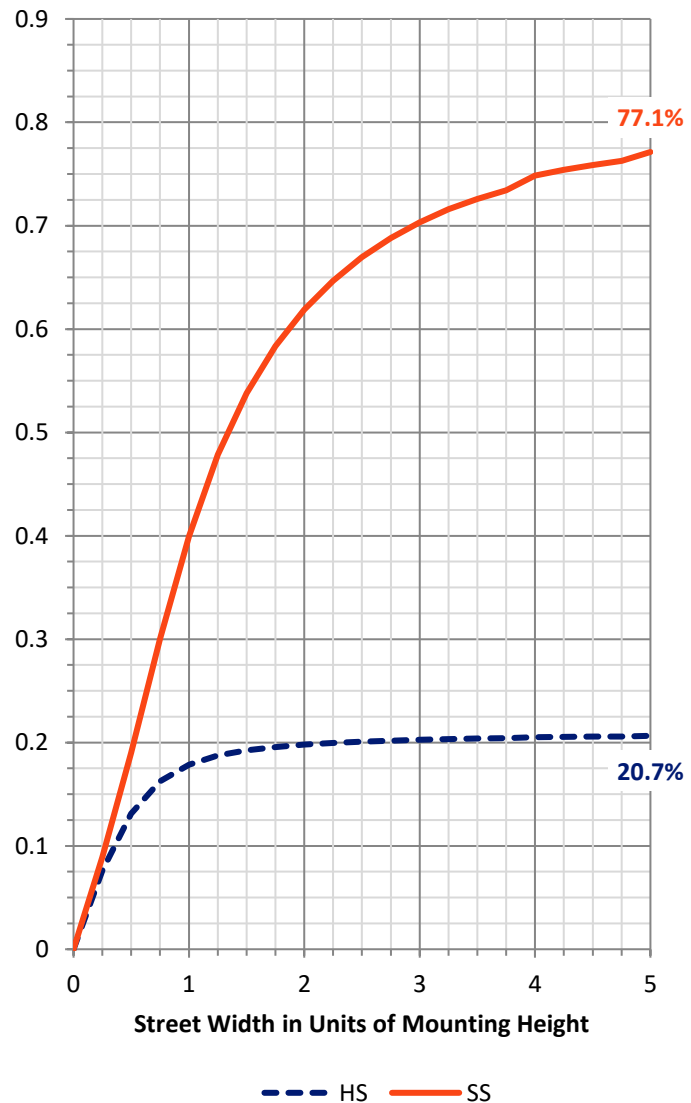
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	930.9	0.0	930.9
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	3516.1	0.0	3516.1
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	4447.0	0.0	4447.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.6	1.2
10°-20°	167.4	3.8
20°-30°	296.1	6.7
30°-40°	467.4	10.5
40°-50°	687.3	15.5
50°-60°	905.4	20.4
60°-70°	1009.1	22.7
70°-80°	663.0	14.9
80°-90°	197.7	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°	4447.0	100.0
0°-180°	4447.0	100.0



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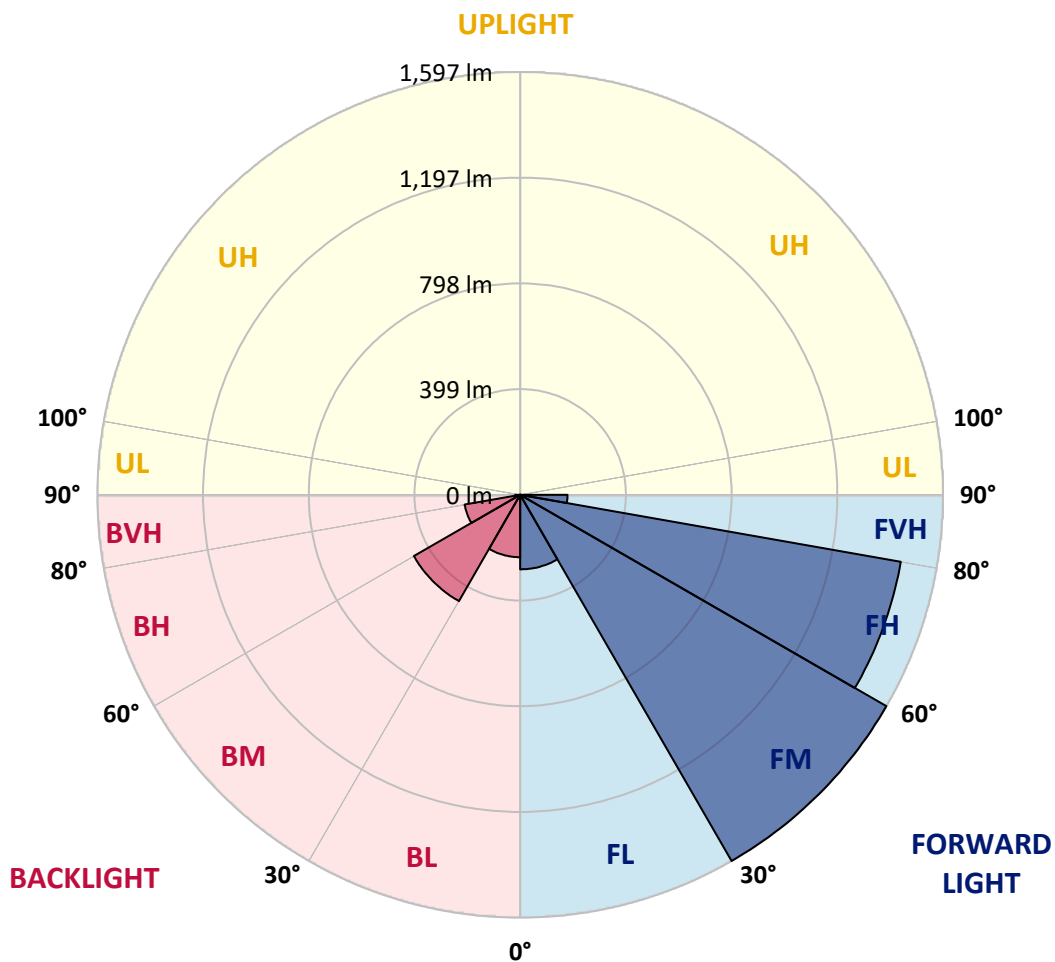
CATALOG NUMBER: LDRL-SLR-F02-E

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.5	6.3			
FM	(30°-60°)	1596.6	35.9			
FH	(60°-80°)	1459.4	32.8			G1/1800
FVH	(80°-90°)	178.7	4.0			G2/225
BL	(0°-30°)	235.7	5.3	B1/500		
BM	(30°-60°)	463.5	10.4	B1/1000		
BH	(60°-80°)	212.7	4.8	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	545.5	546.5	546.5	545.5	546.5	546.2	546.2	547.2	547.5	549.1	548.1
5°	542.9	543.2	543.5	542.9	543.2	543.2	543.9	544.8	545.2	547.2	546.2
7.5°	539.9	540.6	539.2	539.6	540.6	541.9	541.9	543.2	545.5	546.5	546.2
10°	541.5	540.9	539.9	539.6	540.2	540.6	541.2	543.5	545.5	546.5	548.1
12.5°	554.4	552.4	551.5	551.1	551.5	550.8	553.1	553.8	554.4	555.7	555.1
15°	578.9	576.2	574.6	572.9	576.5	574.9	574.9	572.9	569.6	564.7	558.4
17.5°	612.9	609.9	608.6	607.9	608.2	605.3	599.3	589.8	578.2	565.0	552.8
20°	661.7	666.4	664.4	655.5	652.2	639.0	620.1	600.3	580.2	559.0	538.9
22.5°	746.3	743.6	734.7	712.6	692.8	663.1	629.4	597.3	567.6	536.9	510.5
25°	844.3	822.2	797.1	753.5	708.0	659.1	610.6	572.6	533.0	499.3	467.6
27.5°	964.5	916.7	852.6	781.6	713.6	648.5	591.1	540.9	495.6	459.7	424.3
30°	1082.8	1002.8	913.7	819.6	727.8	639.9	564.0	505.9	453.7	407.5	371.8
32.5°	1164.7	1067.9	956.9	840.7	729.1	626.1	534.3	464.9	406.2	359.6	316.7
35°	1232.0	1111.2	972.1	837.4	708.0	593.7	491.7	414.7	352.3	304.1	266.5
37.5°	1278.2	1133.3	971.1	818.3	670.3	542.2	442.8	364.6	306.4	261.5	226.9
40°	1310.6	1140.2	958.3	785.6	627.1	492.3	390.6	319.3	268.5	233.5	208.4
42.5°	1326.1	1135.6	939.1	754.5	584.1	452.1	351.3	288.9	247.7	221.2	202.7
45°	1332.7	1124.4	917.7	724.2	549.1	417.4	331.2	279.7	247.3	224.5	204.4
47.5°	1331.1	1112.1	898.5	699.1	528.3	408.1	335.2	292.2	259.5	231.1	205.4
50°	1326.5	1100.9	886.3	689.8	528.0	422.0	357.3	313.4	273.7	237.1	204.4
52.5°	1326.1	1099.9	892.9	700.7	547.2	453.4	390.6	337.8	287.6	243.7	204.7
55°	1334.0	1117.8	921.0	730.1	593.4	497.3	428.3	363.9	303.1	248.3	203.7
57.5°	1366.1	1162.3	974.1	795.8	652.8	550.8	464.6	383.4	309.1	247.0	199.1
60°	1436.4	1240.6	1056.0	888.6	729.1	599.7	486.1	390.0	306.4	239.1	189.2
62.5°	1546.0	1353.9	1168.3	979.7	796.8	629.0	491.0	384.7	295.9	225.9	177.0
63°	1574.1	1379.9	1191.1	998.6	808.4	632.0	490.7	382.7	292.9	222.6	174.0
65°	1691.3	1491.9	1282.5	1060.6	839.4	638.0	483.1	370.2	279.7	207.0	160.5
67.5°	1867.7	1615.4	1373.3	1118.4	856.6	627.4	459.3	339.1	245.7	180.0	140.3
70°	1985.2	1697.3	1427.5	1137.2	836.4	579.2	404.8	284.3	200.8	148.3	119.9
72.5°	1988.2	1624.0	1354.2	1039.5	722.2	477.8	317.0	215.0	156.2	120.5	103.4
75°	1775.9	1372.4	1106.9	853.6	555.7	337.8	222.9	156.8	119.9	99.4	89.5
77.5°	1320.2	1001.2	798.8	574.2	360.9	218.9	155.2	116.2	95.1	82.2	75.0
80°	819.3	625.7	484.7	343.4	216.3	145.6	113.6	92.5	79.9	68.7	62.7
82.5°	494.0	350.4	273.7	207.4	138.4	105.0	87.5	77.9	67.7	57.8	53.2
85°	361.9	250.6	183.6	128.1	85.5	69.3	61.4	59.4	52.5	44.6	41.9
87.5°	113.9	119.5	124.2	75.6	41.3	31.4	26.7	31.4	30.0	21.1	23.1
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°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	549.8	551.1	550.1	550.1	549.5	549.1	551.5	550.8	551.5	551.1	551.8
5°	547.8	548.8	548.1	548.8	548.1	548.1	551.1	551.1	552.4	553.1	554.8
7.5°	548.5	548.8	548.5	549.5	548.8	548.1	549.8	550.8	553.1	555.1	556.7
10°	550.8	551.8	551.5	551.5	549.5	548.1	549.1	549.8	552.1	553.1	555.1
12.5°	556.4	555.1	552.4	550.8	546.2	543.5	542.2	541.5	543.2	544.5	545.5
15°	555.1	547.8	541.9	536.9	530.0	525.7	522.4	522.1	522.4	522.7	523.7
17.5°	541.5	531.6	519.8	513.5	505.6	500.9	498.6	497.0	496.6	497.3	498.9
20°	522.1	507.5	494.3	483.4	474.8	467.6	469.2	465.6	467.2	468.2	471.2
22.5°	492.3	472.2	457.0	443.8	433.6	426.0	426.0	422.7	423.3	426.3	430.3
25°	444.1	425.3	403.5	394.3	382.7	377.4	376.4	375.8	378.4	382.1	384.4
27.5°	400.5	374.8	353.3	341.1	328.9	330.2	323.6	327.6	330.5	333.5	336.2
30°	341.8	320.6	301.2	288.9	274.4	274.7	275.7	276.4	279.0	283.0	288.3
32.5°	285.3	262.5	244.4	231.1	222.6	219.9	216.3	222.2	225.5	229.5	234.8
35°	238.7	215.0	199.8	188.2	183.3	179.6	178.6	178.0	181.0	182.9	187.2
37.5°	205.4	189.2	178.0	169.7	165.1	161.1	160.2	159.5	159.2	158.5	161.1
40°	191.9	179.0	169.4	161.8	157.5	155.2	154.2	152.9	151.6	149.9	149.6
42.5°	187.9	174.0	162.8	155.2	151.9	151.6	151.6	150.9	149.6	147.3	145.6
45°	186.2	169.4	156.5	150.6	148.3	148.6	148.6	148.6	147.6	145.3	142.7
47.5°	183.3	163.8	150.6	145.6	144.6	145.3	146.0	146.0	145.3	143.3	140.3
50°	177.7	155.2	141.3	136.7	136.4	136.7	136.7	137.4	136.7	135.1	132.4
52.5°	173.4	148.6	134.4	130.8	130.8	130.4	130.1	130.1	129.8	128.5	126.5
55°	169.4	144.3	131.4	128.5	129.1	129.1	128.5	128.1	126.8	125.1	123.2
57.5°	163.8	139.7	128.5	126.5	127.1	126.8	126.5	126.1	124.8	122.8	120.2
60°	153.9	131.4	122.5	121.2	122.2	122.5	123.8	124.2	123.5	121.2	117.6
62.5°	143.0	121.2	114.6	113.6	114.6	115.6	116.6	115.9	115.9	113.6	110.3
63°	139.3	119.5	112.3	112.3	113.3	114.3	114.9	114.3	114.6	111.9	108.6
65°	131.1	113.6	108.0	108.3	109.3	110.0	110.3	110.3	110.0	108.0	105.0
67.5°	117.2	105.0	101.7	103.4	104.7	105.0	105.0	105.7	105.0	103.7	101.0
70°	104.7	96.8	94.4	96.4	97.1	97.4	97.4	97.4	96.8	95.4	93.1
72.5°	95.1	91.1	90.8	90.5	90.8	89.8	89.8	89.2	87.5	86.5	84.5
75°	84.5	82.6	82.9	82.6	81.9	81.6	79.9	79.3	77.3	75.9	73.3
77.5°	72.6	73.0	72.6	73.0	73.6	74.0	71.7	70.0	68.4	67.0	65.7
80°	60.4	61.1	60.4	61.1	61.4	61.4	59.1	56.5	55.1	56.1	56.5
82.5°	53.8	53.8	51.2	51.8	51.2	50.2	48.5	47.6	46.6	45.9	47.6
85°	42.6	42.9	43.6	42.9	41.6	40.6	39.0	37.6	36.7	37.6	40.0
87.5°	25.4	27.4	26.4	26.4	26.1	26.1	24.8	24.1	23.1	27.1	29.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	551.5	552.4	552.8	552.4	552.8	553.4	550.8	553.4	553.8	551.8	552.4
5°	556.1	557.7	560.0	560.0	561.7	562.7	561.4	565.0	565.6	565.3	567.0
7.5°	559.4	561.7	564.7	566.3	569.3	570.6	571.6	574.9	575.6	576.9	578.2
10°	559.0	562.3	565.0	569.6	573.2	575.9	577.9	581.5	582.8	584.8	585.8
12.5°	549.5	553.1	558.1	564.7	571.3	575.6	580.8	586.1	588.1	590.7	592.4
15°	528.0	531.0	537.9	546.5	555.4	566.3	573.9	582.2	585.8	588.4	590.7
17.5°	499.9	502.6	508.9	516.4	528.3	538.9	550.5	563.0	569.3	572.3	573.2
20°	473.9	477.8	479.5	488.4	492.3	502.9	512.8	526.7	534.6	539.9	543.2
22.5°	432.9	434.9	443.5	447.1	450.1	456.7	468.9	481.1	491.7	500.3	502.9
25°	387.7	392.9	397.6	400.5	407.5	407.8	417.7	426.3	439.5	447.8	454.4
27.5°	337.8	345.7	348.4	350.4	355.6	361.9	365.5	374.1	381.7	391.3	403.2
30°	287.6	295.2	300.5	303.5	308.4	314.4	317.0	322.6	332.5	343.1	352.3
32.5°	240.7	248.6	251.3	260.9	262.2	267.8	269.8	278.7	284.3	293.2	304.1
35°	194.8	203.1	211.0	216.3	222.2	221.9	227.2	235.4	240.4	249.6	256.9
37.5°	163.5	168.4	174.0	180.0	186.6	191.5	196.5	200.1	204.1	210.3	216.9
40°	149.6	150.9	153.2	156.8	161.5	165.1	168.7	171.7	174.7	179.6	183.9
42.5°	144.0	143.0	143.0	142.3	144.0	146.0	148.9	149.9	154.5	157.5	159.2
45°	140.0	137.7	136.0	134.1	133.4	134.1	135.7	138.0	141.0	142.0	142.0
47.5°	137.7	134.1	131.4	128.5	126.8	126.8	127.8	129.4	131.1	131.4	131.1
50°	129.8	126.1	122.8	120.2	118.9	118.9	119.2	121.5	121.8	121.2	121.5
52.5°	123.8	120.2	116.9	114.6	112.9	113.3	114.3	115.2	116.2	115.6	114.9
55°	120.2	115.9	112.9	110.3	108.3	109.0	110.0	111.3	112.9	111.9	111.0
57.5°	116.9	113.3	109.6	107.0	104.7	105.3	106.3	108.3	110.3	108.3	107.0
60°	113.9	110.3	106.7	104.0	101.4	102.0	103.4	105.3	107.0	104.3	102.7
62.5°	106.7	103.4	100.7	99.4	97.7	98.7	99.7	102.0	101.4	98.7	96.8
63°	105.3	102.0	99.7	98.4	97.1	98.4	98.7	101.0	100.1	97.4	95.8
65°	101.4	98.7	96.4	95.1	93.8	94.4	94.4	95.4	94.1	92.1	90.8
67.5°	97.7	94.8	92.5	89.8	88.5	87.8	87.5	87.2	86.2	85.2	84.9
70°	89.8	87.8	85.9	83.5	81.6	80.2	79.6	78.9	78.3	77.9	77.6
72.5°	81.2	79.6	77.6	76.3	74.6	73.6	72.0	71.7	71.0	70.3	70.0
75°	72.0	70.0	69.3	68.0	67.0	66.4	65.1	64.7	64.1	63.1	62.7
77.5°	63.7	63.1	62.1	61.7	60.1	59.1	58.4	58.1	57.5	56.8	56.1
80°	56.8	56.5	55.8	55.5	54.5	53.2	52.5	52.8	51.8	51.5	50.5
82.5°	51.2	51.5	51.5	50.5	49.5	47.9	47.2	48.2	47.6	46.2	44.9
85°	43.6	43.3	43.6	43.3	41.3	39.6	39.0	39.6	39.3	37.3	37.0
87.5°	31.0	30.7	30.0	32.0	29.4	23.8	24.4	27.7	26.7	25.8	25.1
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):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	553.8	552.8	553.4	553.8	552.8	555.1	552.8	553.1	553.8	551.8	551.5
5°	568.3	568.3	570.9	571.3	570.9	573.9	573.6	573.9	573.2	572.9	571.6
7.5°	580.2	581.5	583.5	586.5	587.4	589.8	590.4	590.7	592.1	593.4	592.7
10°	588.8	592.4	594.0	597.0	600.0	601.6	603.3	605.9	606.9	607.9	606.6
12.5°	594.7	599.0	601.6	605.3	608.9	611.5	614.5	617.8	621.1	622.1	620.5
15°	591.7	596.7	600.7	604.6	610.2	615.2	620.8	626.7	631.0	632.7	630.7
17.5°	573.2	578.2	584.1	590.1	596.0	605.3	613.2	623.1	630.0	635.0	635.7
20°	547.8	550.8	559.4	565.3	574.9	585.8	597.7	609.2	617.2	626.1	631.4
22.5°	510.2	516.1	525.7	535.9	545.5	559.7	572.3	587.4	601.0	613.2	624.8
25°	464.3	472.5	483.8	498.0	510.5	525.7	543.9	560.7	583.5	602.6	627.4
27.5°	414.7	429.9	445.5	460.3	474.2	491.4	510.2	529.0	555.1	585.8	618.2
30°	367.9	380.4	399.9	417.1	433.2	454.4	473.9	494.7	519.4	555.7	592.4
32.5°	319.0	329.2	344.4	365.5	384.4	409.1	426.3	451.1	479.8	518.1	559.7
35°	268.5	282.7	294.9	309.4	323.6	348.4	374.1	401.5	434.6	475.5	521.1
37.5°	223.9	232.8	238.7	253.6	266.1	287.3	317.3	350.4	386.7	428.3	477.2
40°	186.9	192.5	199.1	209.0	219.6	238.7	266.5	303.5	341.4	383.0	431.9
42.5°	161.5	165.1	165.8	173.4	183.3	202.1	224.2	258.2	300.2	343.7	392.6
45°	144.0	144.0	143.6	146.9	154.9	171.0	191.2	221.6	261.5	307.1	357.9
47.5°	131.8	132.7	132.4	133.7	139.0	150.9	169.1	194.8	231.1	275.7	326.9
50°	122.5	123.8	124.2	124.5	126.5	136.4	151.9	172.7	205.1	247.7	299.2
52.5°	115.2	115.6	115.6	115.2	115.9	121.5	134.4	153.5	183.6	221.9	271.4
55°	111.3	111.6	111.6	111.6	111.6	115.2	124.5	140.0	164.1	200.1	245.0
57.5°	106.7	106.7	107.3	107.3	107.3	108.6	115.2	128.1	146.6	175.3	215.3
60°	102.7	103.7	105.0	105.3	105.0	105.0	108.3	116.9	129.1	149.9	183.6
62.5°	96.8	98.1	99.7	100.4	100.7	100.1	101.7	105.3	112.6	123.5	146.3
63°	95.8	97.1	98.4	99.1	99.4	98.7	100.1	103.0	109.0	117.9	138.4
65°	91.5	93.1	93.4	93.8	93.4	93.1	92.8	92.8	94.4	97.7	108.6
67.5°	85.5	86.5	86.5	87.2	85.5	84.9	84.2	83.5	82.6	82.9	86.8
70°	78.6	79.3	78.9	78.6	77.9	76.9	76.3	75.3	73.3	72.6	74.6
72.5°	70.7	71.3	71.3	71.3	70.0	69.3	68.7	68.0	67.4	68.0	68.7
75°	63.4	63.4	64.1	63.7	62.7	62.1	61.7	61.4	61.4	61.4	61.1
77.5°	56.5	56.1	56.1	55.1	54.5	54.2	54.8	55.1	54.8	54.2	53.8
80°	50.5	48.9	47.2	45.9	45.6	46.2	46.9	48.9	47.9	47.9	47.2
82.5°	42.9	39.3	37.0	37.3	36.3	36.7	37.3	39.6	39.0	39.3	40.6
85°	34.3	31.0	27.4	28.1	28.1	27.4	29.1	29.7	30.4	32.0	30.7
87.5°	24.1	21.1	17.5	15.2	15.9	16.5	17.2	16.5	14.5	15.2	14.9
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2
2.5°	550.8	551.1	551.1	548.8	548.1	548.8	548.5	548.5	546.5	546.8	546.2
5°	570.9	571.6	569.6	568.0	565.6	565.3	565.0	563.7	562.3	559.7	558.4
7.5°	592.4	589.4	588.8	585.8	584.8	582.2	580.2	578.2	576.5	575.2	574.2
10°	605.9	603.6	603.0	597.7	596.0	592.7	590.7	588.4	586.5	584.5	584.1
12.5°	618.2	614.2	611.9	604.6	601.3	597.7	596.0	594.0	593.4	593.1	594.4
15°	627.7	622.1	617.8	611.2	608.6	606.6	606.9	605.9	609.9	612.2	616.5
17.5°	634.0	631.7	630.7	625.7	627.4	627.4	632.0	634.3	641.6	647.5	653.5
20°	637.3	641.6	649.9	651.5	655.5	659.8	666.7	670.7	678.3	686.8	695.1
22.5°	640.3	658.4	675.3	687.8	696.7	706.6	711.6	719.9	725.1	731.4	744.0
25°	656.8	687.2	716.9	733.1	754.2	768.4	779.6	787.9	797.1	802.4	816.6
27.5°	652.2	690.8	730.4	760.1	793.2	819.9	843.7	859.5	871.4	890.6	902.5
30°	631.0	675.9	723.8	766.1	812.3	855.9	897.2	934.2	965.9	991.6	1009.1
32.5°	601.0	652.5	708.6	760.8	819.9	878.0	937.5	993.9	1047.8	1090.4	1117.1
35°	567.3	622.8	684.9	746.6	817.6	893.5	973.8	1049.7	1127.7	1195.7	1249.2
37.5°	526.4	586.5	654.5	726.1	807.7	898.8	999.9	1103.2	1202.6	1305.7	1380.9
40°	483.4	542.2	612.9	694.8	788.9	896.2	1020.0	1154.1	1298.1	1430.8	1545.4
42.5°	446.8	504.2	578.2	659.1	760.5	886.3	1033.6	1199.7	1377.0	1549.0	1701.2
45°	410.8	472.2	546.8	632.4	743.0	882.3	1051.1	1239.3	1441.7	1645.8	1839.9
47.5°	382.4	443.1	518.4	610.2	728.8	880.0	1067.6	1276.3	1494.5	1717.8	1947.9
50°	355.3	413.4	486.7	583.5	713.9	876.4	1077.5	1305.7	1535.8	1774.2	2024.5
52.5°	327.6	388.0	459.3	553.1	694.4	869.1	1080.4	1328.8	1578.4	1828.4	2096.2
55°	299.5	359.9	431.3	528.3	668.0	854.9	1078.1	1345.6	1623.0	1885.5	2161.6
57.5°	265.2	324.6	399.2	497.0	634.0	826.5	1066.9	1352.9	1650.7	1939.0	2227.3
60°	226.5	282.7	353.3	453.0	592.4	785.6	1041.8	1342.6	1663.3	1974.3	2296.9
62.5°	178.0	226.9	291.9	391.0	532.0	726.5	987.0	1297.4	1632.9	1965.4	2327.0
63°	167.1	214.3	281.3	374.5	514.1	706.0	970.8	1281.9	1619.3	1957.2	2323.4
65°	127.5	162.5	217.9	301.2	434.6	611.5	885.6	1194.0	1534.2	1874.9	2266.2
67.5°	94.1	112.3	146.3	202.1	305.8	475.8	725.8	1031.2	1353.2	1673.5	2071.7
70°	77.9	84.9	100.7	129.4	189.2	315.7	512.8	784.9	1087.7	1363.4	1723.0
72.5°	69.7	74.6	81.9	94.8	119.5	185.2	333.5	509.5	757.5	995.9	1299.7
75°	62.4	65.7	71.7	79.3	90.5	115.9	176.3	302.1	463.0	671.0	891.6
77.5°	54.8	58.1	64.1	70.0	77.3	88.2	109.3	172.0	277.0	391.6	547.2
80°	47.6	49.2	54.2	62.7	68.0	76.9	83.9	107.6	150.9	205.1	291.6
82.5°	39.3	39.6	42.9	49.5	56.1	59.4	61.4	67.7	86.8	108.3	143.0
85°	28.1	26.7	28.7	31.4	36.7	33.7	36.0	38.0	46.2	55.8	102.4
87.5°	12.5	9.9	11.6	12.9	11.6	7.9	11.6	9.6	11.9	23.4	26.4
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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REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	546.2	0°
2.5°	546.8	544.8	544.8	544.5	544.8	544.2	542.9	542.9	543.9	543.5	543.5	2.5°
5°	558.4	555.7	555.1	554.8	554.8	553.1	551.1	550.1	549.8	548.5	547.5	5°
7.5°	573.6	571.9	572.9	570.9	570.3	569.9	567.3	565.3	562.3	561.0	556.1	7.5°
10°	586.1	585.1	587.8	587.4	587.8	587.8	584.1	582.2	577.9	575.6	569.3	10°
12.5°	597.0	597.7	602.6	602.6	603.6	604.9	603.0	598.7	597.0	594.7	588.1	12.5°
15°	624.8	627.4	631.0	637.0	638.6	639.0	640.6	637.0	632.7	626.7	618.8	15°
17.5°	662.4	667.7	679.9	688.5	690.1	691.8	690.8	690.1	682.2	677.3	669.0	17.5°
20°	709.6	722.5	739.7	751.6	756.8	757.5	764.1	759.5	752.2	742.3	730.4	20°
22.5°	762.5	783.9	805.7	823.2	833.4	838.1	845.0	838.4	828.8	822.9	807.0	22.5°
25°	834.8	858.2	883.3	897.2	923.3	930.9	934.8	932.8	922.9	927.2	912.7	25°
27.5°	933.8	954.0	989.3	1006.8	1031.2	1045.4	1042.5	1059.0	1062.0	1072.2	1073.8	27.5°
30°	1041.8	1075.2	1122.7	1158.0	1195.4	1219.5	1238.6	1253.1	1270.0	1298.4	1315.6	30°
32.5°	1158.4	1206.6	1267.3	1342.3	1421.6	1486.3	1559.3	1571.8	1609.4	1598.5	1591.3	32.5°
35°	1288.1	1348.9	1426.8	1525.2	1640.5	1747.5	1817.8	1853.1	1868.0	1876.3	1826.1	35°
37.5°	1461.8	1544.1	1630.9	1738.2	1826.4	1926.4	2007.3	2095.2	2135.5	2116.3	2020.2	37.5°
40°	1654.4	1731.3	1848.8	1936.7	2040.7	2205.5	2315.1	2420.8	2453.8	2390.1	2239.5	40°
42.5°	1847.5	1953.2	2080.7	2205.5	2325.0	2474.3	2619.6	2723.9	2760.2	2651.3	2472.6	42.5°
45°	2019.6	2155.0	2304.9	2433.0	2600.1	2795.2	2973.2	3057.1	3050.5	2875.5	2674.4	45°
47.5°	2169.5	2345.2	2514.2	2686.9	2855.3	3075.6	3251.9	3348.3	3280.0	3096.0	2868.2	47.5°
50°	2293.3	2505.6	2709.7	2908.2	3114.9	3349.0	3519.0	3608.2	3504.2	3271.4	3016.8	50°
52.5°	2387.4	2650.6	2885.7	3107.6	3354.6	3607.5	3758.8	3812.6	3650.5	3407.1	3128.1	52.5°
55°	2476.2	2773.8	3034.0	3285.9	3593.3	3820.2	3961.9	3952.0	3742.6	3466.2	3197.8	55°
57.5°	2543.3	2878.8	3155.8	3442.8	3774.0	4016.3	4098.2	4032.9	3780.9	3483.7	3217.9	57.5°
60°	2627.8	2960.7	3264.1	3584.4	3945.7	4150.7	4161.6	4044.4	3770.0	3450.7	3189.5	60°
62.5°	2682.0	3011.8	3333.1	3681.5	4076.4	4226.4	4148.4	3994.6	3707.3	3369.1	3124.4	62.5°
63°	2687.2	3016.8	3338.8	3691.1	4094.9	4229.7	4136.2	3972.1	3688.8	3346.7	3107.3	63°
65°	2663.5	3002.6	3313.0	3673.9	4099.6	4190.7	4046.7	3880.0	3586.7	3232.1	3006.2	65°
67.5°	2497.4	2850.0	3146.2	3484.7	3921.2	3971.8	3827.5	3646.2	3370.8	2985.1	2785.3	67.5°
70°	2199.9	2535.0	2745.0	3059.4	3443.4	3503.9	3374.7	3234.4	2989.7	2667.4	2501.7	70°
72.5°	1772.2	2101.5	2227.6	2468.3	2773.4	2760.2	2669.4	2651.9	2523.1	2252.7	2153.0	72.5°
75°	1324.8	1638.2	1691.3	1789.4	1959.8	1955.5	1976.6	2051.9	2116.3	1956.5	1828.7	75°
77.5°	873.7	1185.5	1218.5	1332.7	1379.9	1509.4	1661.3	1850.5	1944.3	1878.9	1722.0	77.5°
80°	483.4	811.0	804.4	849.0	932.5	1120.7	1350.9	1631.9	1819.5	1772.6	1600.9	80°
82.5°	251.3	512.5	504.9	512.8	590.4	748.6	923.6	1153.4	1347.3	1351.5	1293.8	82.5°
85°	186.9	367.9	389.6	407.5	459.0	514.1	546.2	619.8	726.1	825.2	860.5	85°
87.5°	68.7	220.9	275.1	295.5	296.9	289.9	236.1	259.9	236.4	279.7	390.6	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°
546.2	546.2	546.2	546.2	546.2	546.2	546.2
544.2	544.2	543.9	544.5	544.8	545.8	545.5
546.5	545.5	544.5	543.9	543.2	543.5	542.9
552.4	549.1	546.5	544.2	542.2	541.9	539.9
565.6	559.7	554.8	551.1	547.2	545.2	541.5
582.5	575.9	569.6	564.3	559.7	557.1	554.4
611.9	602.3	594.7	589.1	584.5	581.5	578.9
655.5	643.6	632.0	621.1	619.8	612.9	612.9
715.6	699.4	684.5	675.3	671.0	661.7	661.7
798.8	782.9	760.8	749.6	750.6	742.6	746.3
906.4	893.2	870.4	865.8	865.8	857.2	844.3
1067.9	1063.3	1038.2	1044.5	1031.2	999.2	964.5
1307.6	1307.6	1259.1	1224.1	1193.7	1143.8	1082.8
1547.7	1516.3	1442.0	1382.6	1319.5	1243.2	1164.7
1750.4	1666.9	1591.6	1519.0	1424.2	1342.3	1232.0
1921.5	1842.2	1756.1	1645.4	1534.2	1419.9	1278.2
2133.5	2037.1	1907.6	1768.6	1631.9	1474.7	1310.6
2327.3	2206.5	2043.0	1867.0	1693.0	1517.6	1326.1
2509.6	2353.7	2152.0	1940.6	1742.5	1544.1	1332.7
2681.3	2472.3	2237.5	1993.1	1776.5	1558.3	1331.1
2794.6	2559.1	2291.3	2024.8	1797.0	1563.2	1326.5
2865.6	2612.3	2323.0	2042.3	1807.2	1564.2	1326.1
2905.5	2642.3	2340.2	2054.6	1818.5	1570.1	1334.0
2936.6	2666.1	2359.4	2075.4	1845.2	1597.9	1366.1
2965.9	2728.5	2409.2	2113.7	1891.8	1649.7	1436.4
2978.2	2847.1	2510.6	2184.3	1956.8	1732.9	1546.0
2977.2	2869.5	2540.0	2203.8	1974.0	1755.1	1574.1
2941.2	2940.8	2673.7	2296.9	2053.9	1857.4	1691.3
2834.5	2976.5	2821.6	2419.8	2178.1	2026.2	1867.7
2665.8	2933.3	2841.8	2452.1	2266.2	2181.0	1985.2
2375.2	2726.5	2653.2	2314.1	2236.2	2211.4	1988.2
1921.2	2191.9	2160.6	1977.0	2005.7	2056.5	1775.9
1547.7	1539.1	1534.5	1467.8	1590.0	1693.3	1320.2
1292.8	1064.9	989.0	963.2	1164.7	1243.9	819.3
1208.6	956.6	767.4	735.0	872.7	915.0	494.0
923.6	928.9	804.1	689.1	678.9	621.5	361.9
452.1	459.7	485.7	443.5	380.4	320.6	113.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)