

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: P146327

Luminaire Tested: **LDRL-T2-F01-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146327
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33694)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-T2-F01-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (7) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

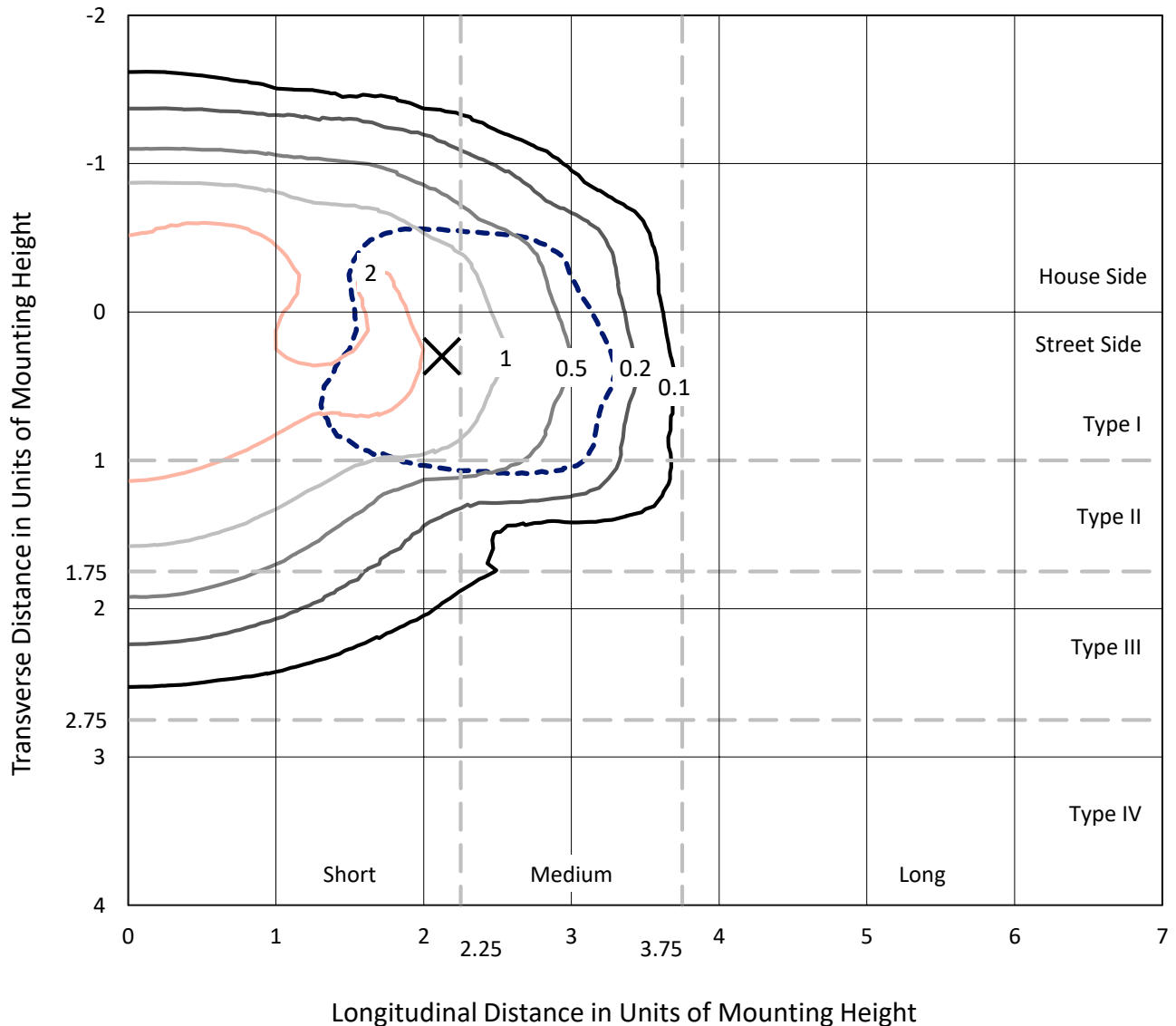
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

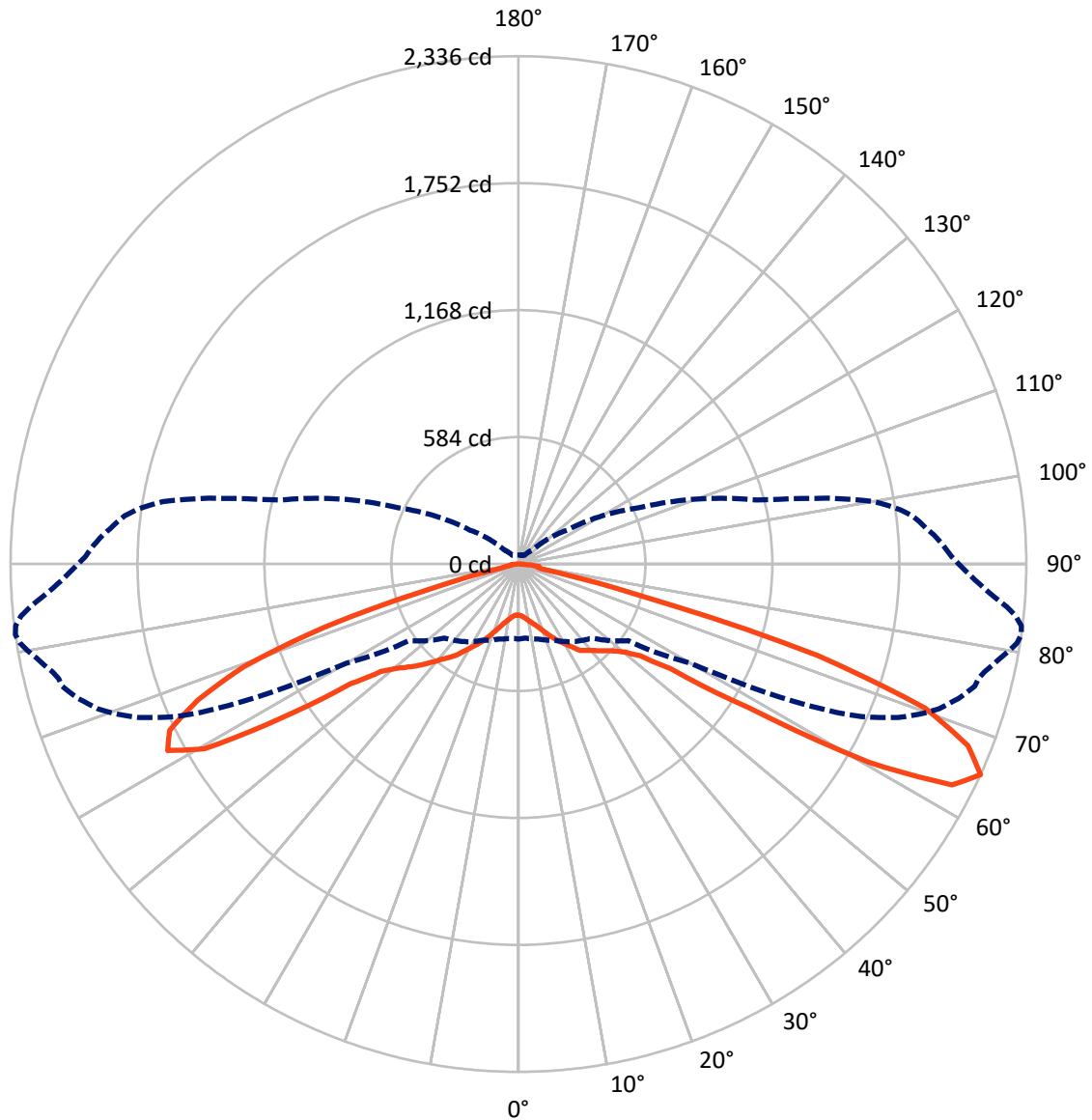
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.0	0.0	935.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	1605.0	0.0	1605.0
	% Fixture	63.2	0.0	63.2
Total	Lumens	2540.0	0.0	2540.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	0.9
10°-20°	84.1	3.3
20°-30°	166.8	6.6
30°-40°	284.7	11.2
40°-50°	426.9	16.8
50°-60°	594.2	23.4
60°-70°	682.7	26.9
70°-80°	235.6	9.3
80°-90°	41.2	1.6
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°	2540.0	100.0
0°-180°	2540.0	100.0



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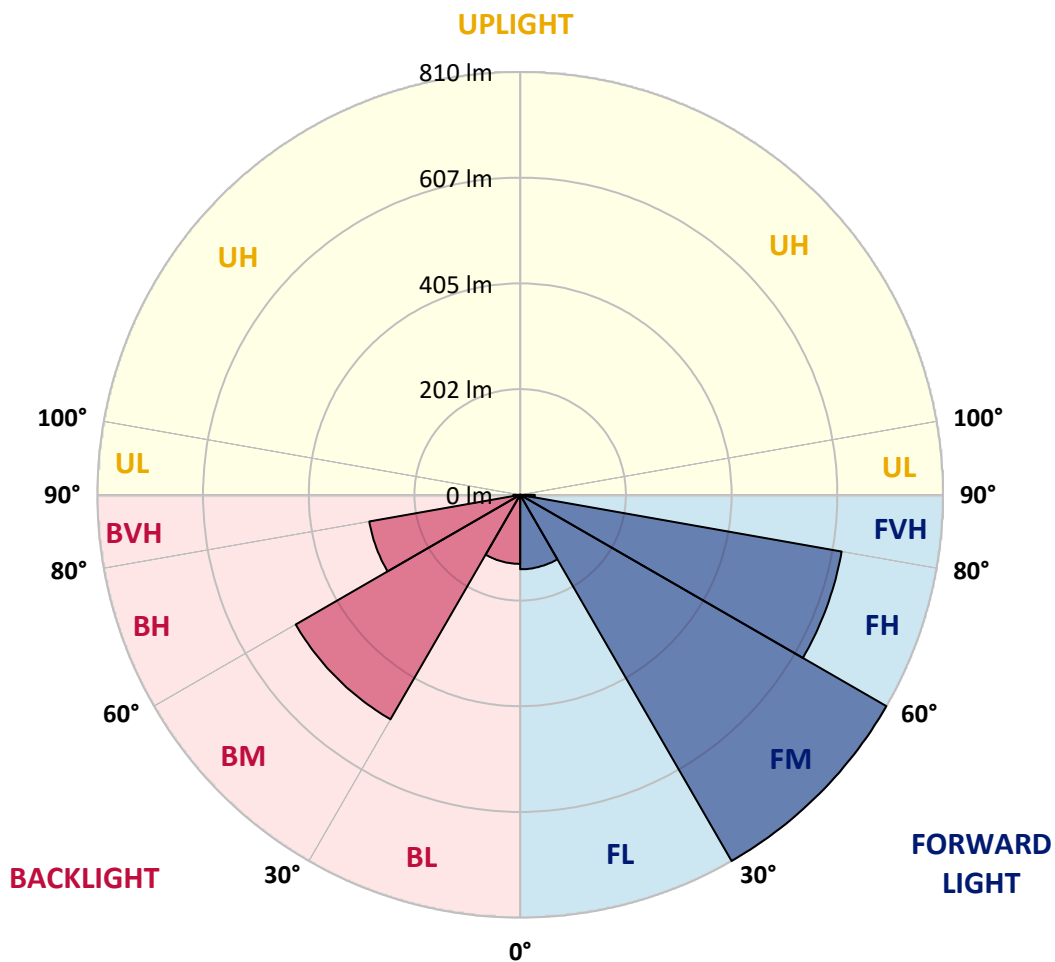
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	142.6	5.6			
FM	(30°-60°)	809.5	31.9			
FH	(60°-80°)	624.9	24.6			G0/660
FVH	(80°-90°)	28.0	1.1			G1/100
BL	(0°-30°)	132.3	5.2	B1/500		
BM	(30°-60°)	496.2	19.5	B1/1000		
BH	(60°-80°)	293.3	11.5	B1/500		G1/500
BVH	(80°-90°)	13.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	248.4	248.2	248.0	247.3	247.0	245.7	244.3	243.4	242.8	243.1	242.1
5°	262.8	262.8	262.1	261.2	260.2	258.4	255.0	253.3	252.9	252.9	251.8
7.5°	277.5	278.5	276.7	276.0	274.3	271.4	267.5	265.3	264.6	264.6	263.6
10°	296.1	295.6	293.6	292.2	288.9	285.0	279.7	277.2	276.1	277.0	275.3
12.5°	315.8	315.6	312.6	310.0	305.3	299.0	292.1	288.7	288.0	288.0	287.0
15°	335.8	336.0	332.6	327.8	320.4	311.9	304.1	300.9	300.0	299.7	298.5
17.5°	351.0	352.7	349.3	343.2	334.1	324.8	316.5	313.2	313.1	312.7	311.4
20°	359.7	360.0	358.1	353.7	345.6	336.6	330.9	329.3	329.2	329.3	329.7
22.5°	359.3	359.8	359.2	357.5	352.2	347.3	346.6	347.5	348.0	347.5	348.7
25°	356.6	357.3	357.3	358.1	356.8	358.5	363.9	366.3	366.4	366.8	369.3
27.5°	362.5	363.2	363.1	364.6	365.8	371.7	381.5	385.8	386.3	387.5	389.8
30°	390.0	390.2	387.1	386.9	388.1	392.9	402.9	407.8	407.3	409.6	411.2
32.5°	433.4	434.7	431.7	428.5	427.9	428.6	430.5	433.9	433.4	434.5	436.6
35°	482.8	483.0	481.3	483.2	484.2	479.6	470.8	470.0	467.2	467.8	468.4
37.5°	528.2	529.4	532.6	544.5	551.3	540.1	522.8	512.0	510.3	509.4	503.5
40°	570.8	576.7	584.5	599.9	609.2	613.3	588.7	566.9	560.9	558.6	549.2
42.5°	620.6	623.6	632.8	650.4	662.8	681.2	664.8	640.7	633.8	623.6	611.9
45°	662.8	664.8	670.5	685.5	711.4	742.2	744.1	727.3	721.9	711.7	694.6
47.5°	691.0	690.9	695.1	709.7	743.4	790.5	818.4	817.8	811.5	807.9	793.4
50°	702.1	701.9	704.6	720.9	757.6	819.3	881.0	902.1	902.0	903.3	895.9
52.5°	704.1	703.9	704.3	717.3	754.7	829.3	926.0	976.0	983.3	992.4	1000.7
55°	688.8	690.5	694.3	708.0	743.9	825.2	959.4	1045.3	1062.7	1081.4	1111.5
57.5°	653.6	656.8	669.7	694.3	732.4	815.2	982.6	1131.0	1166.4	1211.5	1293.1
60°	603.1	606.0	623.8	656.3	698.8	771.7	955.7	1166.9	1234.2	1312.5	1479.8
62.5°	513.8	522.0	531.5	554.5	599.1	657.7	834.7	1106.3	1210.5	1325.3	1555.7
65°	345.1	341.7	357.5	386.8	435.7	481.3	615.0	912.5	1044.3	1202.3	1487.5
67.5°	213.6	214.1	224.8	253.4	290.4	325.8	389.8	581.6	698.5	848.8	1191.7
70°	176.5	178.6	187.2	213.8	245.3	285.3	289.4	308.3	360.7	433.4	736.1
72.5°	140.1	141.0	149.8	172.0	216.5	271.4	343.6	234.3	230.2	241.2	373.4
75°	86.9	87.6	92.0	106.2	140.4	211.4	378.3	269.4	252.4	238.2	240.6
77.5°	44.9	46.3	48.6	55.1	73.7	118.1	297.8	341.5	322.2	302.9	265.1
80°	25.4	25.4	27.6	29.1	34.9	48.1	151.5	369.7	403.9	412.2	370.2
82.5°	11.4	12.7	17.1	18.3	20.0	22.0	50.1	222.1	308.2	384.9	475.7
85°	6.8	6.6	10.8	11.9	12.4	10.5	18.8	90.6	144.0	210.8	315.3
87.5°	2.7	2.9	4.6	4.9	5.8	4.2	7.1	19.5	28.6	41.5	58.6
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	241.9	241.9	241.8	241.6	241.4	240.9	240.7	240.4	240.2	239.7	239.6
5°	251.6	251.1	250.9	250.6	250.4	249.7	249.7	249.0	248.5	247.9	247.7
7.5°	263.1	262.4	261.9	261.6	261.4	260.2	260.2	259.2	259.0	258.2	257.8
10°	274.8	274.3	273.6	273.3	273.1	272.4	271.7	271.1	270.6	270.0	269.4
12.5°	286.5	285.5	285.1	284.6	284.3	283.8	283.6	282.1	282.1	281.6	280.9
15°	297.8	297.7	296.5	296.3	296.0	296.1	295.1	295.3	294.8	293.9	293.6
17.5°	311.7	310.5	311.0	310.2	310.4	310.0	309.7	309.5	309.9	309.7	310.0
20°	329.0	328.7	329.2	328.0	329.2	329.3	329.0	329.9	329.5	329.9	328.8
22.5°	349.5	348.3	348.3	349.2	349.7	351.2	350.4	351.0	351.7	352.2	351.5
25°	370.2	369.8	370.5	371.2	372.2	373.6	373.2	373.4	374.7	375.6	375.8
27.5°	391.2	391.2	393.2	393.2	394.6	396.1	396.6	397.3	398.3	399.5	399.5
30°	412.9	412.9	414.7	416.4	417.1	419.0	420.0	421.0	422.9	423.2	424.7
32.5°	437.6	438.1	440.0	441.0	442.5	444.7	445.1	446.2	448.4	449.1	450.3
35°	469.8	468.1	469.8	471.7	472.5	471.8	475.5	477.1	478.6	479.4	481.0
37.5°	503.0	500.1	500.3	499.9	497.9	499.1	499.1	498.8	499.8	499.6	500.3
40°	545.0	539.9	538.4	535.2	530.8	528.4	525.9	525.5	523.0	524.0	522.1
42.5°	602.6	595.0	590.9	580.9	575.5	569.1	562.8	557.4	554.5	551.3	548.9
45°	681.7	672.7	662.9	646.8	637.5	624.6	616.3	604.0	595.7	588.7	583.8
47.5°	781.0	765.9	758.0	742.9	726.6	707.1	689.4	672.1	658.0	642.8	630.7
50°	896.4	877.6	871.3	851.3	842.2	820.3	801.3	780.0	758.0	734.9	712.9
52.5°	998.5	996.3	998.9	985.5	985.1	974.1	953.1	928.2	907.7	884.5	855.5
55°	1121.0	1142.9	1147.6	1145.8	1155.7	1155.4	1153.4	1150.8	1134.6	1101.7	1091.7
57.5°	1337.2	1361.8	1398.0	1414.4	1450.7	1454.9	1488.5	1475.4	1500.3	1493.6	1498.1
60°	1557.3	1632.7	1701.4	1753.8	1804.6	1850.9	1907.4	1931.7	1949.8	1978.1	2007.9
62.5°	1655.7	1750.7	1832.7	1907.3	1970.5	2029.1	2077.7	2123.8	2160.0	2192.6	2217.6
65°	1615.9	1726.2	1806.1	1883.9	1942.9	1997.4	2045.7	2080.2	2116.3	2145.8	2172.4
67.5°	1345.3	1492.2	1596.6	1684.8	1758.9	1821.0	1871.2	1918.8	1944.4	1976.6	1991.0
70°	891.1	1079.5	1227.1	1346.3	1463.7	1534.2	1593.7	1649.1	1678.2	1704.3	1720.4
72.5°	489.4	618.2	775.8	917.6	1030.4	1122.9	1192.2	1244.7	1274.7	1297.0	1273.8
75°	277.3	340.9	417.9	496.4	581.9	647.2	665.5	687.8	693.1	681.6	651.7
77.5°	255.0	255.0	255.1	253.3	257.0	261.6	258.9	254.3	233.6	229.0	222.6
80°	331.5	295.5	256.8	210.9	172.0	145.0	136.7	137.4	144.0	156.9	171.1
82.5°	470.0	434.4	378.6	308.7	245.7	192.8	158.1	142.1	142.0	154.8	173.3
85°	342.7	345.6	333.2	294.8	235.1	185.2	149.6	114.9	103.7	103.7	102.3
87.5°	60.0	61.8	53.4	47.8	33.4	23.5	21.2	18.6	18.5	19.1	17.6
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	239.6	239.2	238.9	238.7	238.7	238.4	238.4	238.0	238.2	238.0	237.5
5°	247.3	247.2	246.7	245.8	245.7	245.0	245.1	244.5	244.5	244.1	243.3
7.5°	257.2	256.8	256.5	255.8	255.1	255.1	254.0	254.0	253.1	252.8	252.1
10°	268.9	267.8	267.3	266.7	266.5	266.3	265.1	265.1	264.1	263.9	263.4
12.5°	280.4	279.7	279.2	278.9	278.0	277.8	277.3	276.8	276.3	276.0	275.8
15°	292.9	292.6	292.1	292.1	292.1	291.2	290.7	290.4	290.4	289.9	290.2
17.5°	309.2	309.7	309.0	308.7	308.2	309.0	308.2	308.2	308.7	308.7	307.5
20°	329.3	330.0	329.3	329.5	329.2	329.3	329.5	329.9	330.5	329.3	329.5
22.5°	351.7	351.9	352.4	351.9	352.7	352.2	353.2	354.1	353.9	353.6	353.7
25°	376.1	375.6	375.8	377.3	378.5	378.1	378.3	379.7	379.3	379.0	379.2
27.5°	400.8	400.5	401.0	402.4	403.7	403.5	403.2	404.2	404.2	403.4	403.7
30°	425.4	425.9	426.8	426.8	427.4	428.1	427.6	428.8	429.0	428.3	429.1
32.5°	451.3	452.3	452.0	454.4	454.4	454.5	455.0	454.9	456.6	455.2	455.7
35°	482.5	482.8	484.9	486.6	487.6	488.4	488.4	488.9	489.8	489.1	490.1
37.5°	501.5	502.1	502.8	503.8	503.8	503.8	504.7	504.9	505.4	505.2	505.5
40°	522.3	522.5	522.6	522.8	523.5	523.8	523.0	524.2	523.3	523.7	524.2
42.5°	547.5	545.2	545.5	545.0	546.2	544.7	545.0	546.4	545.7	546.7	546.7
45°	576.9	574.1	571.8	570.4	570.4	568.4	568.7	569.2	570.1	571.4	573.8
47.5°	620.2	610.9	606.3	601.6	599.2	596.7	597.5	597.7	598.0	600.2	606.2
50°	691.2	675.6	663.6	649.2	643.8	639.4	636.8	637.0	637.0	641.6	647.5
52.5°	828.4	799.5	770.8	745.8	724.2	713.9	701.9	698.8	699.0	702.9	707.0
55°	1065.5	1025.6	995.3	939.6	922.6	875.0	850.0	835.6	824.4	829.8	835.7
57.5°	1490.7	1453.9	1429.9	1363.3	1302.6	1285.4	1244.2	1210.8	1197.1	1181.2	1182.2
60°	2012.3	1993.3	1987.2	1948.3	1926.4	1858.5	1853.1	1810.9	1771.1	1736.7	1750.7
62.5°	2237.0	2245.8	2252.9	2266.6	2271.9	2265.4	2238.1	2219.5	2186.8	2141.7	2114.1
65°	2180.2	2200.4	2230.7	2259.3	2293.5	2322.0	2336.1	2330.6	2301.2	2254.7	2196.8
67.5°	2001.3	2021.8	2047.9	2084.1	2136.5	2191.9	2230.5	2255.1	2231.7	2189.9	2130.9
70°	1719.6	1739.6	1740.4	1791.1	1847.5	1917.3	1985.7	2011.5	1984.9	1956.9	1907.6
72.5°	1287.9	1275.9	1287.0	1296.4	1328.6	1372.6	1439.0	1436.1	1395.5	1373.8	1298.1
75°	605.3	597.2	585.3	577.5	570.1	554.5	561.9	530.1	519.1	523.5	458.1
77.5°	217.7	206.5	188.6	171.1	149.1	123.5	104.2	91.5	85.2	85.4	81.5
80°	182.6	188.1	185.5	168.2	143.5	116.7	87.4	66.2	56.6	52.5	50.0
82.5°	198.0	225.3	238.9	228.2	192.8	148.4	95.6	57.8	42.4	36.3	34.7
85°	109.8	110.0	106.6	101.8	90.3	62.0	41.3	27.4	22.0	19.7	19.0
87.5°	18.6	17.8	17.8	16.6	14.6	14.2	12.7	12.0	10.7	9.8	9.5
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	237.0	236.7	236.5	236.3	236.3	236.2	236.2	235.8	235.5	235.3	235.1
5°	242.4	242.1	241.8	241.4	241.4	241.1	240.7	240.4	239.9	239.0	238.9
7.5°	251.6	250.9	250.9	249.7	249.7	249.0	248.5	248.5	247.9	246.5	246.3
10°	262.9	261.7	261.2	260.6	260.2	259.5	259.5	258.9	258.5	258.0	256.3
12.5°	275.1	274.3	273.9	273.1	272.6	272.6	272.3	271.1	271.9	270.7	269.9
15°	289.9	289.7	288.2	288.7	288.5	288.3	288.5	287.5	287.3	287.3	286.3
17.5°	308.3	307.0	307.1	307.1	307.5	307.5	306.1	306.8	307.0	306.6	306.3
20°	330.0	329.5	330.0	329.0	330.0	330.0	330.7	330.5	330.7	331.0	331.0
22.5°	353.2	354.6	354.8	355.1	353.9	355.9	355.9	356.3	357.1	357.1	357.5
25°	381.4	380.7	379.8	381.0	381.4	382.7	383.0	383.0	384.4	384.4	384.9
27.5°	404.7	405.4	405.2	405.9	405.6	407.4	408.1	410.2	409.6	410.7	412.0
30°	428.8	430.1	429.5	429.6	430.5	431.7	433.0	435.1	435.4	438.1	438.8
32.5°	456.6	457.6	458.4	458.8	458.8	460.8	463.0	463.7	467.2	469.3	471.7
35°	491.8	492.0	492.5	493.0	492.7	494.9	497.1	497.7	501.5	502.0	506.9
37.5°	506.7	507.1	509.1	510.1	510.8	513.5	517.6	520.6	524.7	528.6	534.2
40°	525.4	527.4	529.3	530.8	533.3	537.0	543.3	546.4	552.5	559.7	565.2
42.5°	548.9	552.6	554.0	556.9	563.1	567.7	574.0	580.6	588.7	597.5	604.0
45°	576.9	580.4	585.5	588.7	596.0	603.3	613.3	619.0	627.3	637.5	644.6
47.5°	610.7	615.7	620.7	627.3	636.0	643.6	653.6	661.1	669.4	677.7	685.5
50°	652.9	660.2	667.0	673.9	685.5	691.9	701.7	709.5	717.3	725.6	732.7
52.5°	709.7	720.7	729.3	734.1	749.7	756.1	768.1	773.5	780.0	787.4	796.6
55°	833.5	850.6	865.2	873.7	897.4	905.9	921.4	929.4	925.0	934.5	950.9
57.5°	1191.7	1212.7	1230.1	1241.6	1265.9	1277.7	1278.6	1308.4	1290.8	1308.2	1310.8
60°	1713.3	1729.9	1725.7	1725.8	1718.2	1707.2	1728.4	1696.2	1709.7	1710.6	1680.3
62.5°	2063.1	2037.7	2025.9	2006.2	1983.3	1965.7	1953.7	1927.8	1907.1	1890.7	1858.7
65°	2145.5	2101.4	2062.5	2025.7	1992.0	1968.6	1943.2	1915.4	1883.0	1855.8	1824.6
67.5°	2065.8	2004.2	1946.4	1898.0	1851.9	1821.0	1784.3	1757.9	1717.2	1681.3	1657.6
70°	1834.9	1749.5	1682.1	1651.1	1605.4	1539.1	1504.1	1471.0	1446.1	1413.6	1399.2
72.5°	1287.2	1181.8	1129.8	1131.9	1085.4	1038.0	1039.2	1019.0	986.8	985.8	980.9
75°	473.0	430.3	400.3	401.7	384.4	365.9	371.0	376.4	365.9	387.3	354.2
77.5°	75.2	73.2	72.5	71.0	67.3	70.0	68.1	71.7	72.2	76.1	76.4
80°	47.9	45.9	45.4	44.6	44.4	44.4	44.0	44.0	44.0	44.2	43.9
82.5°	32.0	30.8	30.7	30.2	31.0	31.2	31.3	32.7	33.9	34.2	35.6
85°	17.4	16.6	16.6	16.3	16.9	17.1	18.6	20.5	22.9	23.9	26.1
87.5°	8.8	9.3	9.1	9.5	10.0	11.2	12.4	13.6	14.9	16.8	18.3
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3	235.3
2.5°	234.8	234.6	234.6	234.3	234.3	234.1	233.8	233.5	231.9	230.1	228.9
5°	238.4	238.0	237.9	237.5	237.0	237.0	236.5	235.8	232.9	229.9	228.0
7.5°	245.7	245.5	245.0	244.3	243.6	242.9	242.6	242.3	237.9	235.0	233.6
10°	256.2	256.0	254.8	254.6	253.6	253.8	252.9	252.3	249.4	246.2	244.3
12.5°	269.5	270.2	269.5	268.0	268.4	267.8	267.0	266.2	263.6	261.1	258.2
15°	286.1	285.3	284.6	286.0	284.8	284.6	285.1	285.3	282.2	279.5	275.5
17.5°	306.8	306.8	306.5	306.8	306.1	306.6	306.3	306.6	305.3	301.6	295.6
20°	330.4	331.7	331.7	331.2	331.0	332.1	332.6	330.7	331.0	327.8	317.1
22.5°	357.8	358.8	359.2	358.7	358.8	360.2	361.0	359.7	362.7	357.5	341.0
25°	386.1	387.6	386.9	387.1	388.5	390.0	391.5	390.2	396.1	388.0	366.4
27.5°	414.1	415.4	415.1	416.1	418.3	420.3	422.0	421.5	431.3	420.7	393.2
30°	440.5	443.7	444.4	445.6	448.3	451.7	454.4	454.2	466.9	452.5	415.1
32.5°	473.0	476.6	477.9	480.5	485.7	488.1	491.5	491.8	504.5	480.5	433.5
35°	510.6	514.2	517.1	518.9	524.8	527.7	531.1	532.6	541.1	506.6	446.4
37.5°	539.8	542.8	548.4	552.3	557.5	563.3	567.2	569.1	573.8	528.9	452.3
40°	571.6	578.2	583.6	589.6	595.3	599.9	603.5	606.3	604.5	547.5	449.8
42.5°	611.9	618.9	626.2	631.2	634.3	640.4	642.1	644.1	628.9	556.0	438.3
45°	653.9	659.5	665.6	669.4	673.4	676.5	677.0	677.2	647.0	551.1	417.4
47.5°	694.4	699.2	703.4	705.4	707.5	707.6	706.8	705.4	656.7	534.5	392.4
50°	738.8	741.7	743.6	743.7	745.6	742.0	739.7	733.4	655.6	509.1	365.9
52.5°	802.7	802.0	799.6	799.5	793.5	786.8	782.4	773.4	648.7	481.6	335.4
55°	949.4	943.0	950.4	931.4	915.7	905.2	880.3	862.2	655.6	456.1	300.4
57.5°	1302.0	1279.9	1282.3	1251.6	1218.1	1155.2	1118.1	1068.0	710.2	441.8	256.2
60°	1673.8	1637.6	1603.3	1549.0	1477.6	1397.8	1326.0	1247.6	764.4	424.4	209.1
62.5°	1827.3	1780.6	1721.1	1644.3	1552.7	1453.8	1354.5	1265.0	734.6	371.9	150.6
65°	1777.8	1721.9	1658.6	1558.4	1454.4	1339.4	1230.6	1136.1	611.8	271.9	91.0
67.5°	1602.2	1554.0	1475.9	1381.4	1252.7	1137.3	1029.7	942.3	451.0	168.1	52.2
70°	1349.1	1282.5	1215.7	1124.9	989.2	880.5	780.3	703.1	286.1	83.0	38.5
72.5°	931.1	878.4	825.1	743.7	642.4	567.5	481.5	417.9	149.8	44.7	35.4
75°	362.7	357.0	350.9	313.9	279.5	224.0	196.7	177.4	62.3	38.8	34.9
77.5°	79.6	84.4	87.1	82.5	78.6	70.1	67.1	60.0	41.7	39.8	34.6
80°	43.9	43.9	43.9	44.4	43.5	43.5	43.0	42.2	39.0	39.8	33.9
82.5°	35.9	36.4	37.1	37.3	37.1	37.3	36.9	36.8	38.1	40.0	32.2
85°	27.4	29.1	30.2	31.5	32.9	33.7	34.1	34.2	35.1	37.9	28.1
87.5°	19.5	20.8	23.0	23.4	24.9	26.8	27.4	28.5	28.0	28.8	13.2
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):

	145°	155°	165°	175°	180°
0°	235.3	235.3	235.3	235.3	235.3
2.5°	227.9	226.5	226.0	225.8	225.5
5°	226.5	225.7	225.0	224.5	224.8
7.5°	232.6	232.1	230.9	230.6	231.1
10°	243.4	242.3	240.6	240.7	240.6
12.5°	257.0	253.8	251.1	249.9	249.0
15°	270.9	264.6	259.0	256.5	255.5
17.5°	286.3	275.6	267.0	262.4	261.6
20°	302.6	287.8	276.7	271.2	270.4
22.5°	321.4	301.1	286.8	279.4	278.2
25°	339.7	312.9	293.9	284.8	283.3
27.5°	356.3	321.9	298.2	287.3	285.8
30°	370.2	329.0	301.7	289.4	287.7
32.5°	379.3	332.9	302.9	289.5	287.5
35°	382.2	330.4	297.8	282.4	280.7
37.5°	376.1	320.0	284.3	266.8	265.5
40°	362.2	300.9	262.9	244.8	243.1
42.5°	340.5	276.7	238.2	219.1	217.5
45°	316.5	250.7	211.9	192.8	191.3
47.5°	290.2	223.3	184.3	166.7	164.3
50°	261.4	193.5	156.2	138.9	136.7
52.5°	227.7	160.9	126.4	110.8	109.4
55°	188.2	128.2	100.6	89.3	87.9
57.5°	146.4	97.6	80.0	74.4	72.2
60°	106.2	74.2	63.7	61.0	59.8
62.5°	72.2	55.4	51.3	50.5	49.6
65°	49.0	43.4	42.2	42.4	41.8
67.5°	38.6	36.4	35.7	36.1	35.9
70°	33.9	32.2	32.0	32.4	32.2
72.5°	32.0	29.8	30.2	30.7	30.5
75°	31.2	28.8	29.5	29.8	29.0
77.5°	30.3	27.3	29.3	30.0	28.3
80°	29.1	25.9	30.7	30.3	27.1
82.5°	26.6	22.9	30.0	27.4	24.4
85°	21.7	17.1	33.7	24.2	17.8
87.5°	13.9	10.3	23.4	18.5	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)