

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: P146324

Luminaire Tested: **LDRL-T2-F01-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146324
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (7) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2260.9 lumens
Efficiency: N/A
Efficacy: 87.3 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

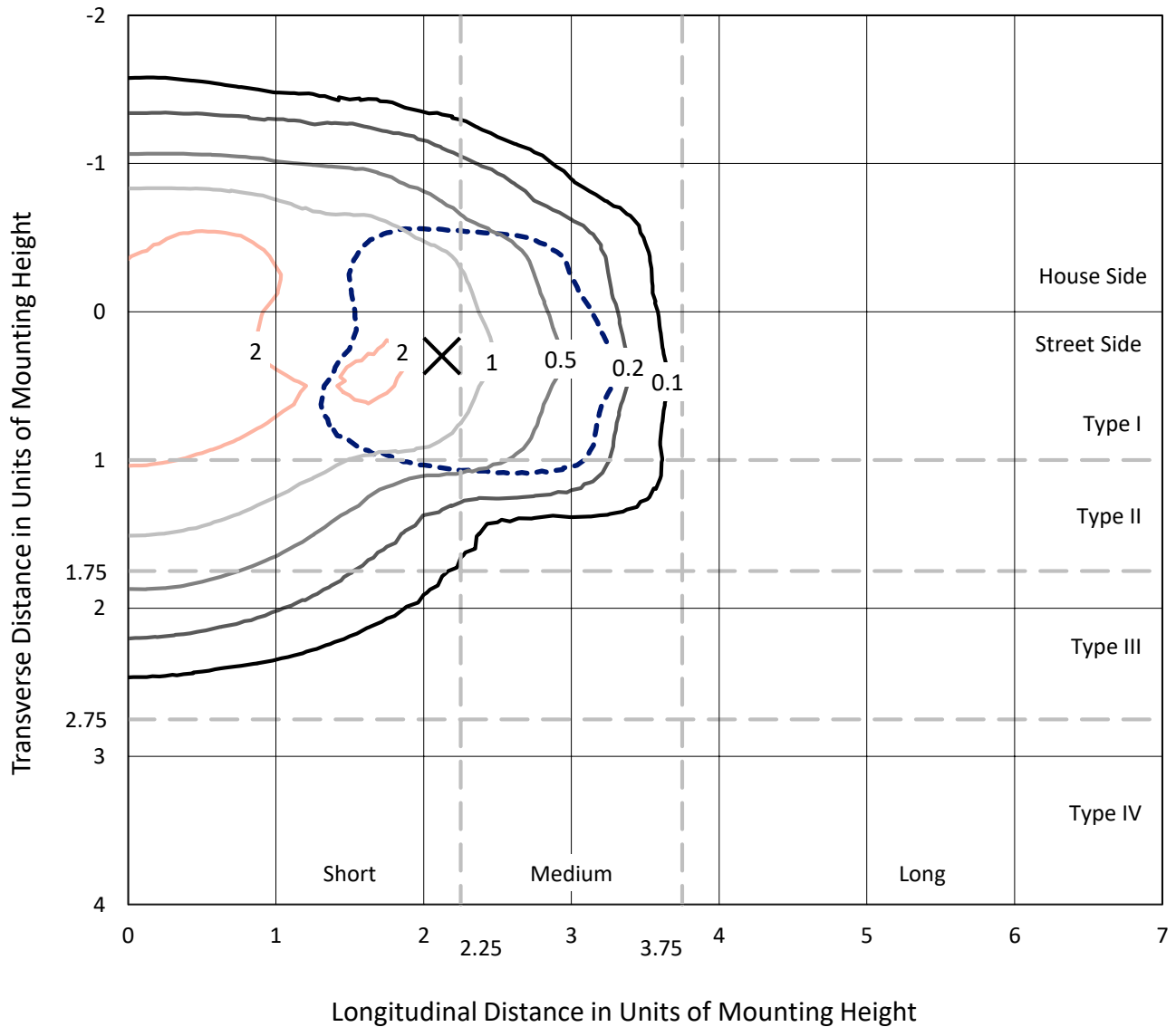
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

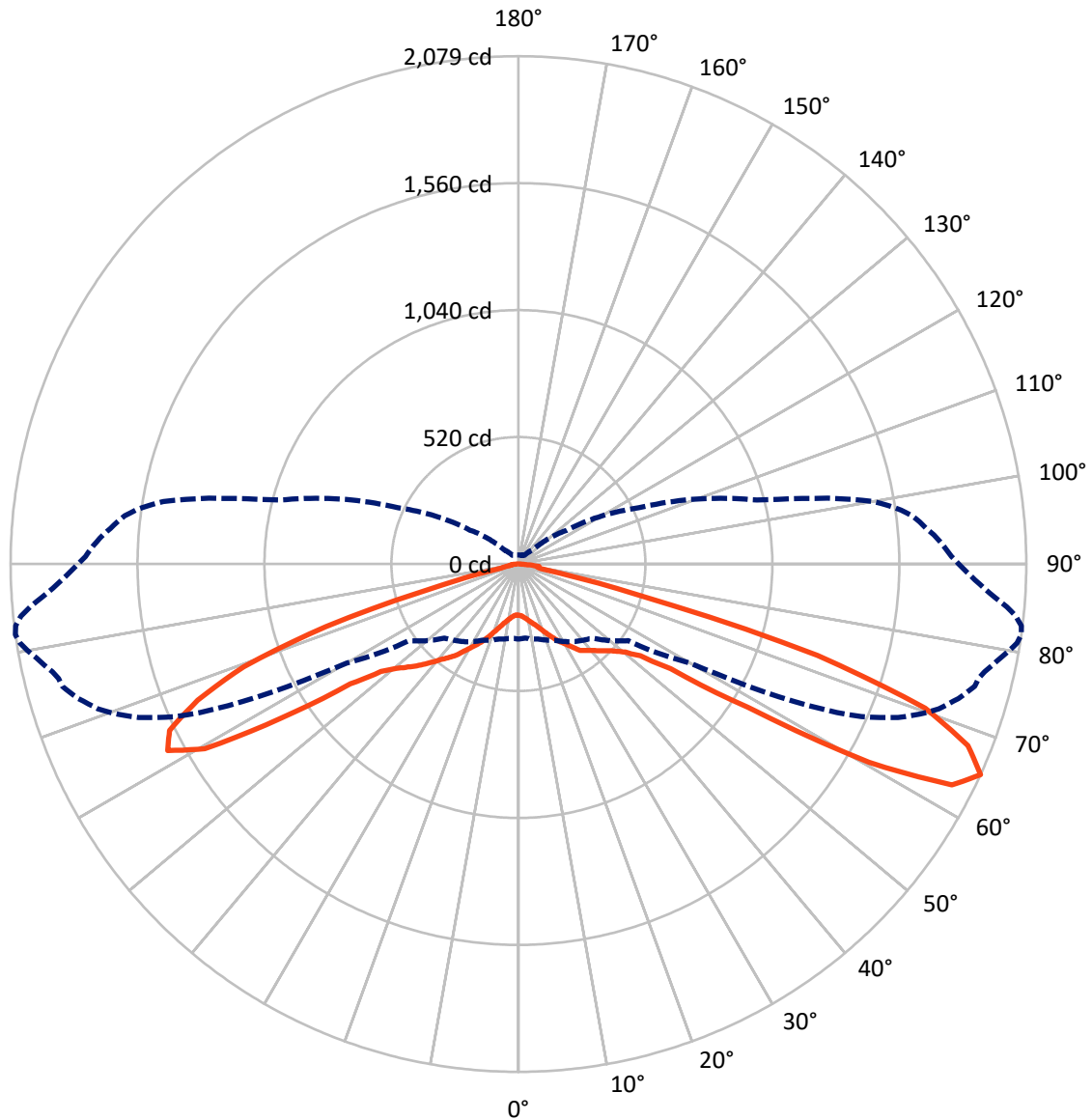
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.7 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	832.3	0.0	832.3
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	1428.7	0.0	1428.7
	% Fixture	63.2	0.0	63.2
Total	Lumens	2260.9	0.0	2260.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.3	0.9
10°-20°	74.9	3.3
20°-30°	148.5	6.6
30°-40°	253.4	11.2
40°-50°	380.0	16.8
50°-60°	528.9	23.4
60°-70°	607.6	26.9
70°-80°	209.7	9.3
80°-90°	36.7	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°	2260.9	100.0
0°-180°	2260.9	100.0



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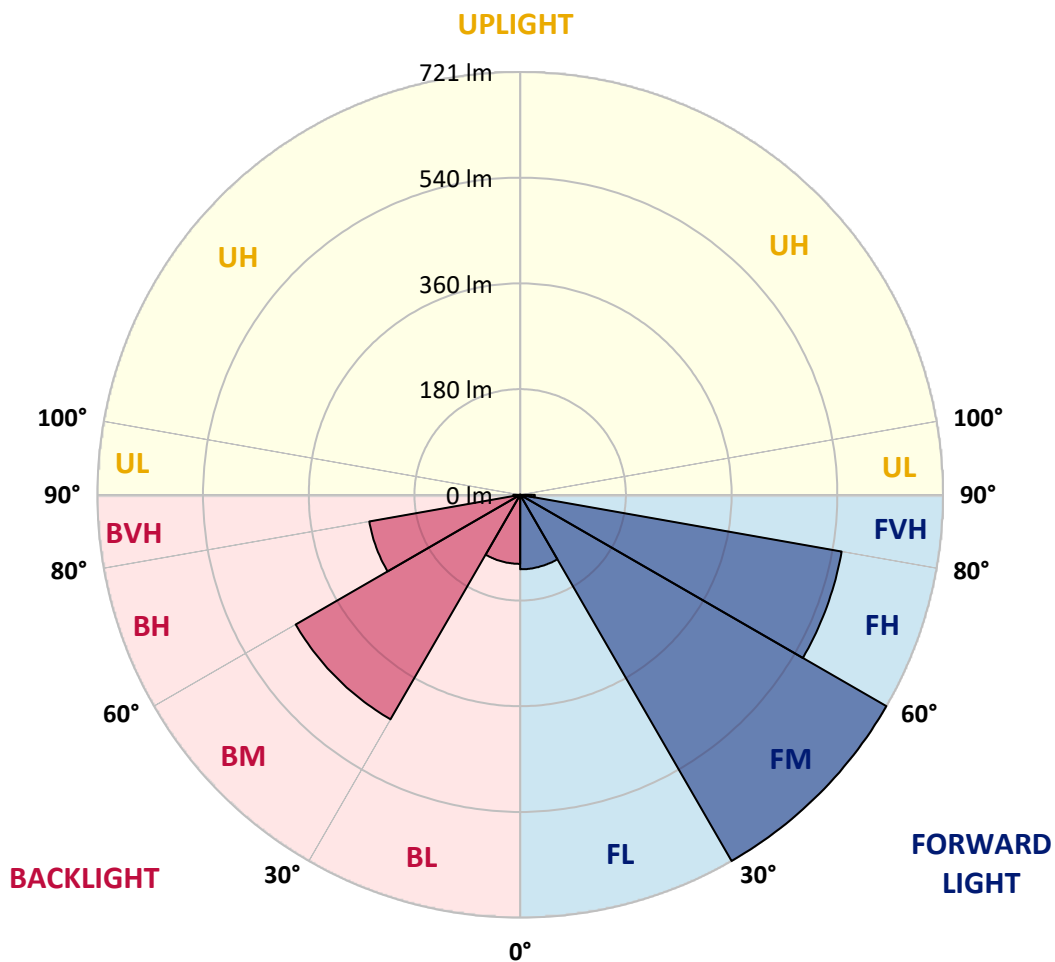
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	126.9	5.6			
FM (30°-60°)	720.6	31.9			
FH (60°-80°)	556.3	24.6			G0/660
FVH (80°-90°)	24.9	1.1			G1/100
BL (0°-30°)	117.7	5.2	B1/500		
BM (30°-60°)	441.7	19.5	B1/1000		
BH (60°-80°)	261.1	11.5	B1/500		G1/500
BVH (80°-90°)	11.8	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°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5
2.5°	221.1	220.9	220.8	220.2	219.9	218.7	217.5	216.7	216.1	216.4	215.5
5°	233.9	233.9	233.3	232.5	231.6	230.0	227.0	225.4	225.1	225.1	224.1
7.5°	247.0	247.9	246.3	245.7	244.1	241.6	238.1	236.2	235.5	235.5	234.6
10°	263.6	263.1	261.3	260.1	257.1	253.6	249.0	246.7	245.8	246.6	245.0
12.5°	281.1	280.9	278.2	276.0	271.7	266.2	260.0	257.0	256.4	256.4	255.5
15°	298.9	299.0	296.0	291.8	285.2	277.6	270.7	267.8	267.1	266.8	265.7
17.5°	312.5	314.0	310.9	305.5	297.4	289.1	281.7	278.8	278.7	278.4	277.2
20°	320.1	320.4	318.8	314.9	307.6	299.6	294.5	293.2	293.0	293.2	293.5
22.5°	319.8	320.3	319.7	318.2	313.5	309.1	308.5	309.3	309.7	309.3	310.3
25°	317.4	318.0	318.0	318.8	317.6	319.1	323.9	326.0	326.2	326.5	328.7
27.5°	322.7	323.3	323.2	324.5	325.6	330.9	339.6	343.4	343.8	344.9	347.0
30°	347.1	347.3	344.6	344.4	345.5	349.7	358.6	363.0	362.5	364.6	366.0
32.5°	385.7	386.9	384.2	381.4	380.9	381.5	383.2	386.2	385.7	386.8	388.6
35°	429.8	429.9	428.4	430.1	431.0	426.9	419.1	418.3	415.9	416.4	417.0
37.5°	470.2	471.2	474.1	484.7	490.7	480.7	465.4	455.7	454.2	453.5	448.2
40°	508.0	513.3	520.3	534.0	542.3	545.9	524.0	504.6	499.3	497.2	488.9
42.5°	552.4	555.1	563.2	578.9	589.9	606.4	591.7	570.3	564.1	555.1	544.7
45°	589.9	591.7	596.9	610.1	633.2	660.6	662.3	647.4	642.6	633.5	618.3
47.5°	615.1	615.0	618.7	631.7	661.7	703.6	728.5	727.9	722.3	719.2	706.2
50°	624.9	624.8	627.2	641.6	674.4	729.3	784.2	803.0	802.9	804.1	797.4
52.5°	626.7	626.6	626.9	638.5	671.8	738.2	824.3	868.8	875.2	883.4	890.8
55°	613.1	614.7	618.0	630.2	662.2	734.5	854.0	930.4	946.0	962.5	989.4
57.5°	581.8	584.6	596.1	618.0	651.9	725.6	874.6	1006.7	1038.2	1078.4	1151.0
60°	536.8	539.4	555.2	584.2	622.0	686.9	850.7	1038.7	1098.6	1168.2	1317.2
62.5°	457.4	464.6	473.1	493.6	533.2	585.4	743.0	984.7	1077.5	1179.7	1384.8
65°	307.2	304.2	318.2	344.3	387.9	428.4	547.4	812.2	929.5	1070.2	1324.0
67.5°	190.2	190.6	200.1	225.6	258.5	290.0	347.0	517.7	621.7	755.5	1060.7
70°	157.1	158.9	166.6	190.3	218.4	253.9	257.6	274.5	321.1	385.7	655.2
72.5°	124.7	125.5	133.3	153.1	192.7	241.6	305.8	208.6	204.9	214.7	332.4
75°	77.4	78.0	81.9	94.6	125.0	188.2	336.7	239.8	224.7	212.0	214.1
77.5°	40.0	41.2	43.3	49.0	65.6	105.1	265.1	304.0	286.8	269.6	236.0
80°	22.6	22.6	24.6	25.9	31.1	42.8	134.8	329.0	359.5	366.9	329.5
82.5°	10.1	11.3	15.2	16.3	17.8	19.6	44.6	197.7	274.3	342.6	423.4
85°	6.0	5.9	9.7	10.6	11.0	9.3	16.7	80.7	128.2	187.6	280.6
87.5°	2.4	2.6	4.1	4.4	5.1	3.8	6.3	17.3	25.5	36.9	52.2
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5
2.5°	215.3	215.3	215.2	215.0	214.9	214.4	214.3	214.0	213.8	213.4	213.2
5°	223.9	223.5	223.3	223.0	222.9	222.3	222.3	221.7	221.2	220.6	220.5
7.5°	234.2	233.6	233.1	232.8	232.7	231.6	231.6	230.7	230.6	229.8	229.5
10°	244.6	244.1	243.5	243.2	243.1	242.5	241.9	241.3	240.8	240.4	239.8
12.5°	255.0	254.1	253.8	253.3	253.0	252.6	252.4	251.1	251.1	250.6	250.0
15°	265.1	265.0	263.9	263.7	263.4	263.6	262.7	262.8	262.4	261.6	261.3
17.5°	277.5	276.4	276.9	276.1	276.3	276.0	275.7	275.5	275.8	275.7	276.0
20°	292.9	292.5	293.0	291.9	293.0	293.2	292.9	293.6	293.3	293.6	292.7
22.5°	311.1	310.0	310.0	310.8	311.2	312.6	311.9	312.5	313.1	313.5	312.9
25°	329.5	329.2	329.8	330.4	331.3	332.5	332.2	332.4	333.6	334.3	334.5
27.5°	348.2	348.2	350.0	350.0	351.2	352.6	353.0	353.6	354.5	355.6	355.6
30°	367.5	367.5	369.2	370.7	371.3	372.9	373.8	374.7	376.4	376.7	378.1
32.5°	389.5	390.0	391.6	392.5	393.9	395.8	396.1	397.2	399.2	399.8	400.8
35°	418.2	416.7	418.2	419.8	420.6	420.0	423.3	424.6	426.0	426.8	428.1
37.5°	447.7	445.2	445.3	445.0	443.2	444.3	444.3	444.0	444.9	444.7	445.3
40°	485.1	480.6	479.2	476.4	472.5	470.3	468.1	467.8	465.5	466.4	464.8
42.5°	536.4	529.6	526.0	517.1	512.3	506.5	501.0	496.1	493.6	490.7	488.6
45°	606.8	598.8	590.1	575.7	567.5	556.0	548.6	537.6	530.2	524.0	519.7
47.5°	695.2	681.8	674.7	661.3	646.8	629.4	613.6	598.2	585.7	572.1	561.4
50°	797.9	781.1	775.6	757.8	749.6	730.2	713.3	694.3	674.7	654.2	634.6
52.5°	888.8	886.8	889.1	877.2	876.9	867.1	848.4	826.2	808.0	787.3	761.5
55°	997.8	1017.3	1021.5	1019.9	1028.7	1028.4	1026.6	1024.4	1009.9	980.6	971.7
57.5°	1190.3	1212.1	1244.4	1259.0	1291.3	1295.1	1324.9	1313.3	1335.5	1329.4	1333.5
60°	1386.1	1453.2	1514.5	1561.1	1606.3	1647.5	1697.8	1719.4	1735.5	1760.7	1787.3
62.5°	1473.8	1558.4	1631.3	1697.7	1753.9	1806.1	1849.4	1890.4	1922.7	1951.6	1974.0
65°	1438.3	1536.5	1607.7	1676.9	1729.4	1777.9	1820.9	1851.7	1883.8	1910.0	1933.7
67.5°	1197.5	1328.2	1421.1	1499.7	1565.6	1620.9	1665.6	1707.9	1730.7	1759.4	1772.2
70°	793.2	960.9	1092.2	1198.4	1302.9	1365.6	1418.6	1467.9	1493.8	1517.0	1531.4
72.5°	435.7	550.3	690.5	816.7	917.2	999.5	1061.2	1107.9	1134.6	1154.5	1133.9
75°	246.9	303.4	372.0	441.8	518.0	576.1	592.3	612.2	616.9	606.7	580.1
77.5°	227.0	227.0	227.1	225.4	228.8	232.8	230.4	226.3	208.0	203.9	198.1
80°	295.1	263.0	228.6	187.7	153.1	129.1	121.7	122.3	128.2	139.6	152.3
82.5°	418.3	386.6	337.0	274.8	218.7	171.6	140.7	126.5	126.4	137.8	154.3
85°	305.1	307.6	296.6	262.4	209.3	164.8	133.2	102.2	92.3	92.3	91.1
87.5°	53.4	55.0	47.5	42.5	29.7	21.0	18.8	16.6	16.4	17.0	15.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5
2.5°	213.2	212.9	212.6	212.5	212.5	212.2	212.2	211.9	212.0	211.9	211.4
5°	220.2	220.0	219.6	218.8	218.7	218.1	218.2	217.6	217.6	217.3	216.5
7.5°	228.9	228.6	228.3	227.7	227.1	227.1	226.0	226.0	225.3	225.0	224.4
10°	239.3	238.4	238.0	237.4	237.2	237.1	236.0	236.0	235.1	234.9	234.5
12.5°	249.6	249.0	248.5	248.2	247.5	247.3	246.9	246.4	246.0	245.7	245.5
15°	260.7	260.4	260.0	260.0	260.0	259.2	258.8	258.5	258.5	258.0	258.3
17.5°	275.2	275.7	275.1	274.8	274.3	275.1	274.3	274.3	274.8	274.8	273.7
20°	293.2	293.8	293.2	293.3	293.0	293.2	293.3	293.6	294.2	293.2	293.3
22.5°	313.1	313.2	313.7	313.2	314.0	313.5	314.4	315.2	315.0	314.7	314.9
25°	334.8	334.3	334.5	335.8	336.9	336.6	336.7	337.9	337.6	337.3	337.5
27.5°	356.8	356.5	356.9	358.1	359.4	359.2	358.9	359.8	359.8	359.1	359.4
30°	378.7	379.1	379.9	379.9	380.5	381.1	380.6	381.7	381.8	381.2	382.0
32.5°	401.7	402.6	402.3	404.4	404.4	404.6	405.0	404.9	406.4	405.2	405.6
35°	429.5	429.8	431.6	433.1	434.0	434.8	434.8	435.2	436.0	435.4	436.3
37.5°	446.4	447.0	447.6	448.5	448.5	448.5	449.2	449.4	449.8	449.7	450.0
40°	464.9	465.1	465.2	465.4	466.0	466.3	465.5	466.6	465.8	466.1	466.6
42.5°	487.4	485.3	485.6	485.1	486.2	484.8	485.1	486.3	485.7	486.6	486.6
45°	513.5	511.1	508.9	507.7	507.7	505.9	506.2	506.7	507.4	508.6	510.8
47.5°	552.1	543.8	539.7	535.5	533.4	531.1	531.9	532.0	532.3	534.3	539.6
50°	615.3	601.4	590.7	577.9	573.0	569.1	566.9	567.0	567.0	571.1	576.4
52.5°	737.4	711.6	686.1	663.8	644.7	635.5	624.8	622.0	622.2	625.7	629.3
55°	948.4	912.9	885.9	836.3	821.2	778.9	756.6	743.7	733.8	738.6	743.9
57.5°	1326.9	1294.2	1272.7	1213.5	1159.5	1144.1	1107.5	1077.8	1065.5	1051.4	1052.3
60°	1791.2	1774.3	1768.9	1734.2	1714.7	1654.3	1649.4	1611.9	1576.4	1545.8	1558.4
62.5°	1991.1	1999.0	2005.3	2017.5	2022.2	2016.5	1992.2	1975.6	1946.5	1906.4	1881.8
65°	1940.6	1958.6	1985.6	2011.1	2041.5	2066.8	2079.4	2074.5	2048.3	2007.0	1955.4
67.5°	1781.4	1799.6	1822.9	1855.1	1901.7	1951.0	1985.4	2007.3	1986.5	1949.2	1896.7
70°	1530.6	1548.4	1549.2	1594.2	1644.5	1706.6	1767.5	1790.4	1766.8	1741.9	1698.0
72.5°	1146.4	1135.7	1145.6	1153.9	1182.6	1221.8	1280.9	1278.3	1242.1	1222.8	1155.4
75°	538.8	531.6	521.0	514.1	507.4	493.6	500.2	471.8	462.0	466.0	407.8
77.5°	193.8	183.8	167.8	152.3	132.7	109.9	92.7	81.4	75.9	76.0	72.5
80°	162.6	167.4	165.1	149.7	127.7	103.9	77.8	59.0	50.4	46.7	44.5
82.5°	176.3	200.6	212.6	203.1	171.6	132.1	85.1	51.4	37.7	32.3	30.9
85°	97.7	97.9	94.9	90.6	80.4	55.2	36.8	24.4	19.6	17.5	16.9
87.5°	16.6	15.8	15.8	14.8	13.0	12.7	11.3	10.7	9.5	8.7	8.4
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5
2.5°	211.0	210.7	210.5	210.4	210.4	210.2	210.2	209.9	209.6	209.5	209.3
5°	215.8	215.5	215.2	214.9	214.9	214.6	214.3	214.0	213.5	212.8	212.6
7.5°	223.9	223.3	223.3	222.3	222.3	221.7	221.2	221.2	220.6	219.4	219.3
10°	234.0	233.0	232.5	231.9	231.6	231.0	231.0	230.4	230.1	229.7	228.2
12.5°	244.9	244.1	243.8	243.1	242.6	242.6	242.3	241.3	242.0	241.0	240.2
15°	258.0	257.9	256.5	257.0	256.8	256.7	256.8	255.9	255.8	255.8	254.8
17.5°	274.5	273.2	273.4	273.4	273.7	273.7	272.5	273.1	273.2	272.9	272.6
20°	293.8	293.3	293.8	292.9	293.8	293.8	294.4	294.2	294.4	294.7	294.7
22.5°	314.4	315.6	315.8	316.1	315.0	316.8	316.8	317.1	317.9	317.9	318.2
25°	339.4	338.8	338.1	339.1	339.4	340.7	341.0	341.0	342.2	342.2	342.6
27.5°	360.3	360.9	360.7	361.3	361.0	362.7	363.3	365.1	364.6	365.5	366.7
30°	381.7	382.9	382.3	382.4	383.2	384.2	385.4	387.3	387.6	390.0	390.6
32.5°	406.4	407.3	408.1	408.4	408.4	410.2	412.1	412.7	415.9	417.7	419.8
35°	437.8	437.9	438.4	438.8	438.5	440.5	442.4	443.0	446.4	446.8	451.2
37.5°	451.0	451.3	453.2	454.1	454.7	457.1	460.7	463.4	467.0	470.5	475.5
40°	467.6	469.4	471.1	472.5	474.7	478.0	483.6	486.3	491.8	498.2	503.1
42.5°	488.6	491.9	493.1	495.7	501.3	505.3	510.9	516.8	524.0	531.9	537.6
45°	513.5	516.6	521.2	524.0	530.5	537.0	545.9	551.0	558.4	567.5	573.8
47.5°	543.6	548.0	552.5	558.4	566.1	572.9	581.8	588.4	595.8	603.2	610.1
50°	581.2	587.7	593.7	599.9	610.1	615.9	624.6	631.5	638.5	645.9	652.2
52.5°	631.7	641.5	649.2	653.4	667.3	673.0	683.7	688.5	694.3	700.9	709.1
55°	741.9	757.2	770.1	777.7	798.8	806.3	820.2	827.3	823.4	831.8	846.4
57.5°	1060.7	1079.4	1094.9	1105.2	1126.8	1137.3	1138.1	1164.6	1148.9	1164.5	1166.7
60°	1525.0	1539.8	1536.0	1536.2	1529.4	1519.6	1538.4	1509.8	1521.9	1522.6	1495.6
62.5°	1836.4	1813.8	1803.3	1785.8	1765.4	1749.7	1739.0	1715.9	1697.5	1682.9	1654.4
65°	1909.7	1870.5	1835.8	1803.1	1773.1	1752.3	1729.7	1704.9	1676.1	1651.8	1624.1
67.5°	1838.8	1783.9	1732.5	1689.4	1648.4	1620.9	1588.2	1564.7	1528.5	1496.5	1475.4
70°	1633.3	1557.3	1497.3	1469.7	1429.0	1370.0	1338.8	1309.4	1287.2	1258.3	1245.4
72.5°	1145.8	1052.0	1005.7	1007.5	966.2	923.9	925.0	907.1	878.4	877.5	873.1
75°	421.0	383.0	356.3	357.5	342.2	325.7	330.2	335.1	325.7	344.7	315.3
77.5°	67.0	65.1	64.5	63.2	59.9	62.3	60.6	63.8	64.2	67.7	68.0
80°	42.7	40.9	40.4	39.7	39.5	39.5	39.2	39.2	39.2	39.4	39.1
82.5°	28.5	27.4	27.3	26.8	27.6	27.7	27.9	29.1	30.2	30.5	31.7
85°	15.5	14.8	14.8	14.5	15.1	15.2	16.6	18.2	20.4	21.3	23.2
87.5°	7.8	8.3	8.1	8.4	8.9	10.0	11.0	12.1	13.3	14.9	16.3
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°	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5	209.5
2.5°	209.0	208.9	208.9	208.6	208.6	208.4	208.1	207.8	206.4	204.8	203.7
5°	212.2	211.9	211.7	211.4	211.0	211.0	210.5	209.9	207.3	204.6	203.0
7.5°	218.7	218.5	218.1	217.5	216.8	216.2	215.9	215.6	211.7	209.2	208.0
10°	228.0	227.9	226.8	226.7	225.7	225.9	225.1	224.5	222.0	219.1	217.5
12.5°	239.9	240.5	239.9	238.6	238.9	238.4	237.7	236.9	234.6	232.4	229.8
15°	254.7	253.9	253.3	254.5	253.5	253.3	253.8	253.9	251.2	248.8	245.2
17.5°	273.1	273.1	272.8	273.1	272.5	272.9	272.6	272.9	271.7	268.4	263.1
20°	294.1	295.3	295.3	294.8	294.7	295.6	296.0	294.4	294.7	291.8	282.3
22.5°	318.5	319.4	319.7	319.2	319.4	320.6	321.4	320.1	322.9	318.2	303.6
25°	343.7	345.0	344.4	344.6	345.8	347.1	348.5	347.3	352.6	345.3	326.2
27.5°	368.6	369.8	369.5	370.4	372.3	374.1	375.6	375.2	383.9	374.4	350.0
30°	392.1	394.9	395.5	396.6	399.0	402.0	404.4	404.3	415.6	402.8	369.5
32.5°	421.0	424.2	425.4	427.7	432.3	434.5	437.5	437.8	449.1	427.7	385.9
35°	454.5	457.7	460.2	461.9	467.2	469.7	472.8	474.1	481.7	450.9	397.4
37.5°	480.4	483.2	488.1	491.6	496.3	501.4	504.9	506.5	510.8	470.8	402.6
40°	508.8	514.7	519.5	524.8	529.9	534.0	537.1	539.7	538.0	487.4	400.4
42.5°	544.7	550.9	557.4	561.9	564.6	570.0	571.5	573.3	559.8	494.9	390.1
45°	582.1	587.1	592.5	595.8	599.4	602.1	602.6	602.7	575.9	490.5	371.6
47.5°	618.1	622.3	626.1	627.9	629.7	629.9	629.1	627.9	584.5	475.8	349.2
50°	657.6	660.2	661.9	662.0	663.7	660.5	658.4	652.8	583.6	453.2	325.7
52.5°	714.5	713.9	711.8	711.6	706.3	700.3	696.4	688.4	577.4	428.7	298.6
55°	845.1	839.3	846.0	829.1	815.1	805.7	783.6	767.4	583.6	406.0	267.4
57.5°	1158.9	1139.3	1141.4	1114.1	1084.2	1028.3	995.3	950.6	632.1	393.3	228.0
60°	1489.9	1457.6	1427.2	1378.8	1315.3	1244.2	1180.3	1110.5	680.4	377.8	186.1
62.5°	1626.5	1584.9	1532.0	1463.7	1382.1	1294.0	1205.6	1126.0	653.9	331.0	134.1
65°	1582.5	1532.7	1476.3	1387.2	1294.6	1192.2	1095.4	1011.3	544.5	242.0	81.0
67.5°	1426.1	1383.3	1313.8	1229.6	1115.0	1012.3	916.6	838.7	401.4	149.6	46.4
70°	1200.8	1141.5	1082.1	1001.3	880.5	783.7	694.6	625.8	254.7	73.9	34.2
72.5°	828.8	781.9	734.4	662.0	571.8	505.2	428.6	372.0	133.3	39.8	31.5
75°	322.9	317.7	312.3	279.4	248.8	199.4	175.1	157.9	55.5	34.5	31.1
77.5°	70.9	75.1	77.5	73.4	70.0	62.4	59.7	53.4	37.1	35.4	30.8
80°	39.1	39.1	39.1	39.5	38.8	38.8	38.3	37.5	34.7	35.4	30.2
82.5°	32.0	32.4	33.0	33.2	33.0	33.2	32.9	32.7	33.9	35.6	28.7
85°	24.4	25.9	26.8	28.0	29.3	30.0	30.3	30.5	31.2	33.8	25.0
87.5°	17.3	18.5	20.5	20.8	22.2	23.8	24.4	25.3	24.9	25.6	11.8
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):

	145°	155°	165°	175°	180°
0°	209.5	209.5	209.5	209.5	209.5
2.5°	202.8	201.6	201.2	201.0	200.7
5°	201.6	200.9	200.3	199.8	200.1
7.5°	207.0	206.6	205.5	205.2	205.7
10°	216.7	215.6	214.1	214.3	214.1
12.5°	228.8	225.9	223.5	222.4	221.7
15°	241.1	235.5	230.6	228.3	227.4
17.5°	254.8	245.3	237.7	233.6	232.8
20°	269.3	256.2	246.3	241.4	240.7
22.5°	286.1	268.0	255.3	248.7	247.6
25°	302.4	278.5	261.6	253.5	252.1
27.5°	317.1	286.5	265.4	255.8	254.4
30°	329.5	292.9	268.6	257.6	256.1
32.5°	337.6	296.3	269.6	257.7	255.9
35°	340.2	294.1	265.1	251.4	249.9
37.5°	334.8	284.9	253.0	237.5	236.3
40°	322.4	267.8	234.0	217.9	216.4
42.5°	303.1	246.3	212.0	195.0	193.6
45°	281.7	223.2	188.6	171.6	170.3
47.5°	258.3	198.8	164.1	148.4	146.3
50°	232.7	172.2	139.0	123.7	121.7
52.5°	202.7	143.3	112.5	98.6	97.4
55°	167.5	114.2	89.6	79.5	78.3
57.5°	130.3	86.9	71.2	66.2	64.2
60°	94.6	66.0	56.7	54.3	53.2
62.5°	64.2	49.3	45.7	44.9	44.2
65°	43.6	38.6	37.5	37.7	37.2
67.5°	34.4	32.4	31.8	32.1	32.0
70°	30.2	28.7	28.5	28.8	28.7
72.5°	28.5	26.5	26.8	27.3	27.1
75°	27.7	25.6	26.2	26.5	25.8
77.5°	27.0	24.3	26.1	26.7	25.2
80°	25.9	23.1	27.3	27.0	24.1
82.5°	23.7	20.4	26.7	24.4	21.7
85°	19.3	15.2	30.0	21.6	15.8
87.5°	12.4	9.2	20.8	16.4	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)