

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: P146321

Luminaire Tested: **LDRL-T2-E01-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146321
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-E01-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3076.8 lumens
Efficiency: N/A
Efficacy: 124.6 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

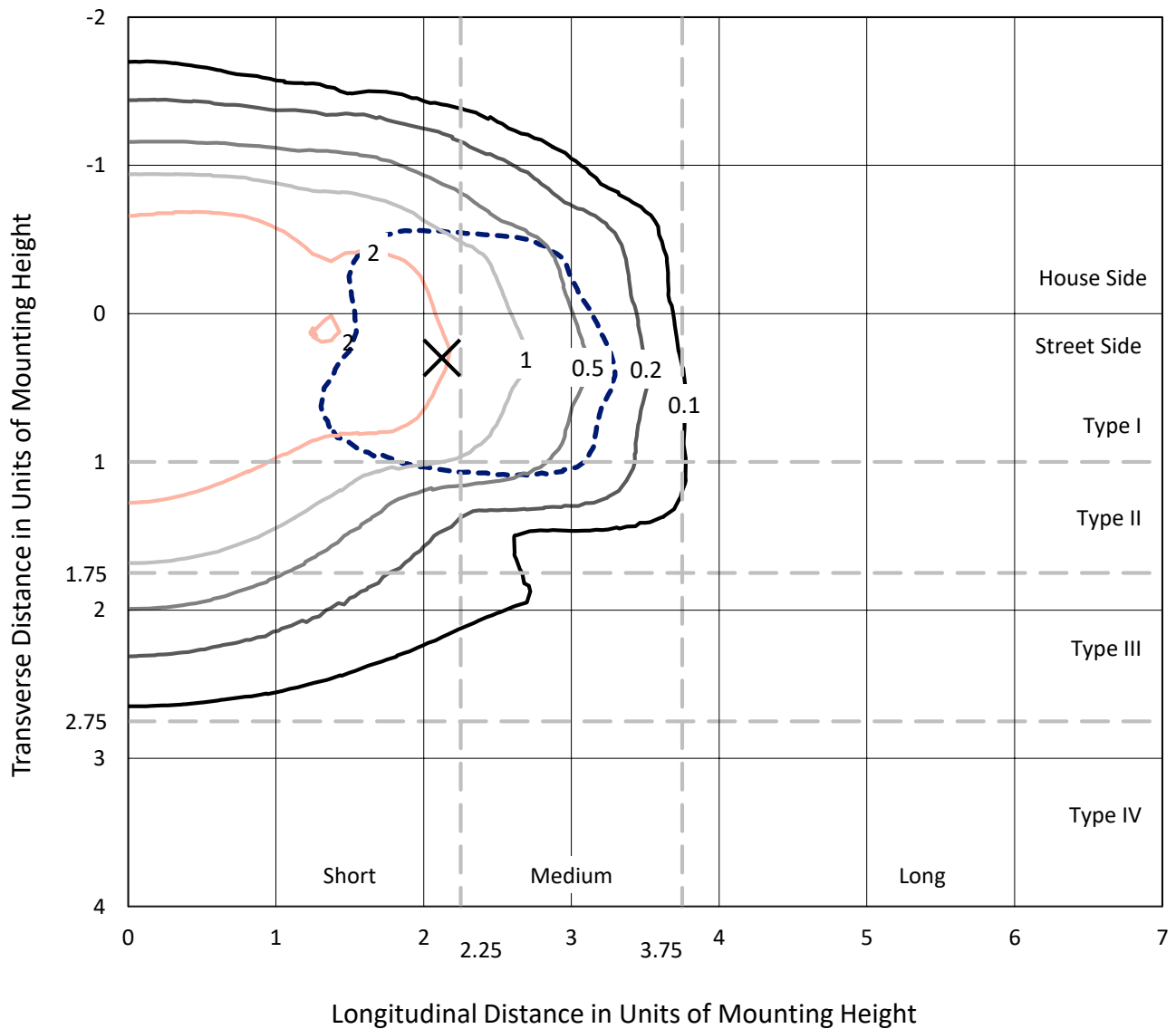
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

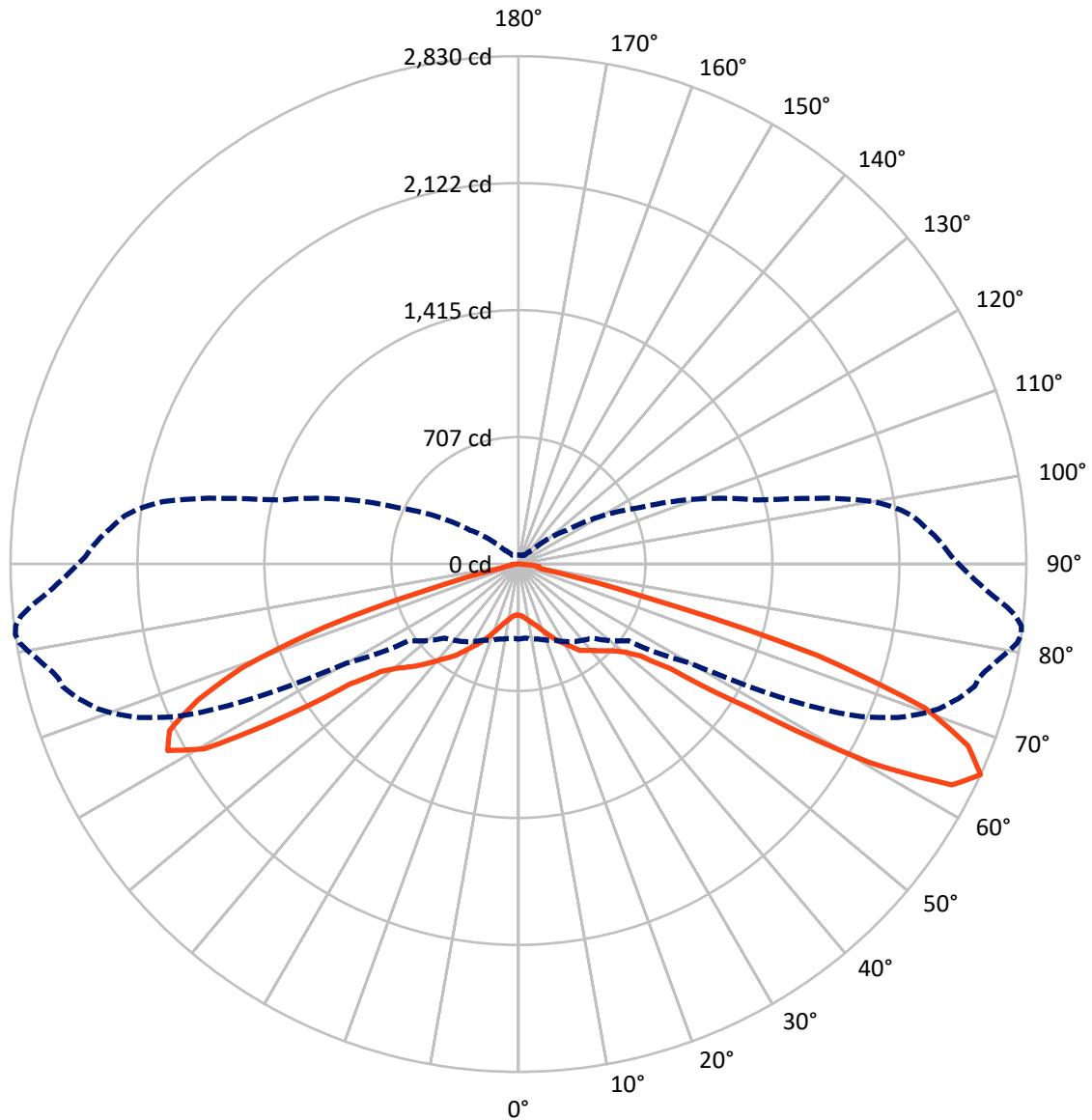
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 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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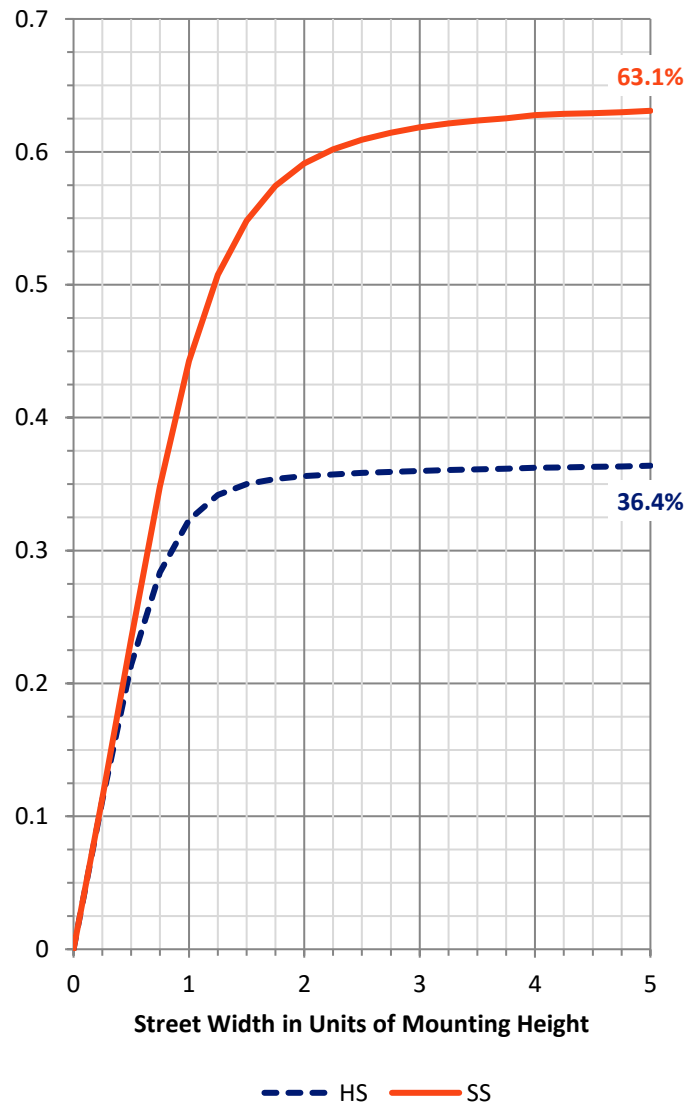
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1132.6	0.0	1132.6
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	1944.2	0.0	1944.2
	% Fixture	63.2	0.0	63.2
Total	Lumens	3076.8	0.0	3076.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.9
10°-20°	101.9	3.3
20°-30°	202.1	6.6
30°-40°	344.9	11.2
40°-50°	517.1	16.8
50°-60°	719.8	23.4
60°-70°	826.9	26.9
70°-80°	285.4	9.3
80°-90°	49.9	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°	3076.8	100.0
0°-180°	3076.8	100.0



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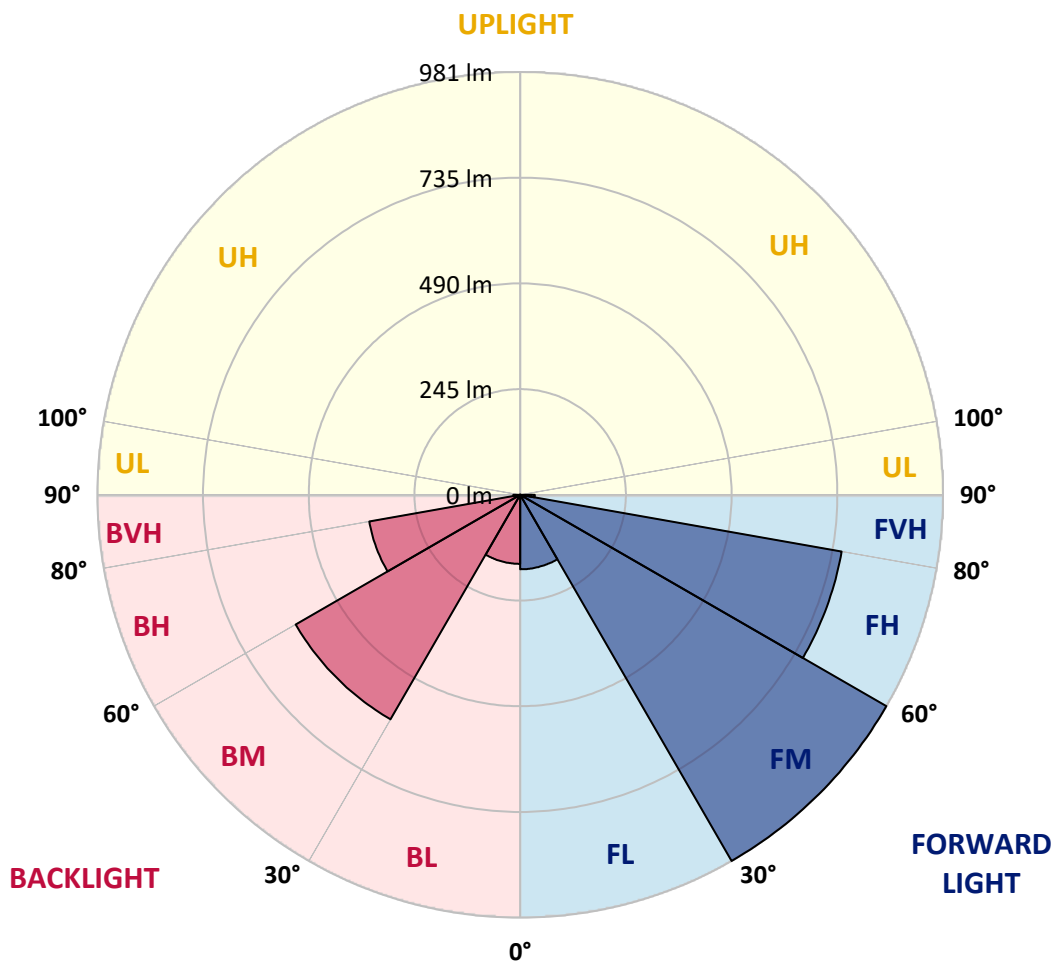
CATALOG NUMBER: LDRL-T2-E01-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	172.7	5.6			
FM (30°-60°)	980.6	31.9			
FH (60°-80°)	757.0	24.6			G1/1800
FVH (80°-90°)	33.9	1.1			G1/100
BL (0°-30°)	160.2	5.2	B1/500		
BM (30°-60°)	601.1	19.5	B1/1000		
BH (60°-80°)	355.3	11.5	B1/500		G1/500
BVH (80°-90°)	16.0	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°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	300.9	300.6	300.4	299.6	299.2	297.6	295.9	294.9	294.1	294.5	293.3
5°	318.3	318.3	317.5	316.5	315.2	313.0	308.9	306.8	306.4	306.4	305.0
7.5°	336.2	337.4	335.1	334.3	332.3	328.8	324.0	321.4	320.6	320.6	319.3
10°	358.7	358.1	355.6	354.0	349.9	345.2	338.8	335.7	334.5	335.5	333.5
12.5°	382.5	382.3	378.6	375.6	369.8	362.2	353.8	349.7	348.9	348.9	347.6
15°	406.7	407.0	402.8	397.1	388.1	377.8	368.4	364.5	363.4	363.0	361.6
17.5°	425.2	427.3	423.2	415.8	404.7	393.4	383.4	379.5	379.2	378.8	377.2
20°	435.7	436.1	433.8	428.5	418.7	407.8	400.8	398.9	398.7	398.9	399.4
22.5°	435.3	435.9	435.1	433.0	426.7	420.7	419.9	420.9	421.5	420.9	422.3
25°	432.0	432.8	432.8	433.8	432.2	434.2	440.8	443.7	443.9	444.3	447.4
27.5°	439.2	440.0	439.8	441.6	443.1	450.3	462.2	467.3	467.9	469.3	472.2
30°	472.4	472.6	468.9	468.7	470.2	475.9	488.0	494.0	493.4	496.2	498.1
32.5°	525.0	526.6	522.9	519.0	518.4	519.2	521.5	525.6	525.0	526.4	528.9
35°	584.9	585.1	583.0	585.3	586.5	581.0	570.3	569.3	566.0	566.6	567.4
37.5°	639.9	641.3	645.2	659.6	667.8	654.2	633.3	620.2	618.1	617.1	609.9
40°	691.4	698.6	708.0	726.7	738.0	742.9	713.1	686.7	679.5	676.6	665.3
42.5°	751.7	755.4	766.5	787.8	802.8	825.2	805.3	776.1	767.7	755.4	741.3
45°	802.8	805.3	812.3	830.3	861.7	899.1	901.3	881.0	874.4	862.1	841.4
47.5°	837.1	836.9	842.0	859.7	900.5	957.6	991.4	990.6	983.0	978.7	961.1
50°	850.4	850.2	853.5	873.2	917.7	992.4	1067.1	1092.8	1092.6	1094.2	1085.2
52.5°	852.9	852.7	853.1	868.9	914.3	1004.6	1121.7	1182.3	1191.1	1202.2	1212.2
55°	834.4	836.5	841.0	857.6	901.1	999.6	1162.2	1266.2	1287.4	1309.9	1346.5
57.5°	791.7	795.6	811.2	841.0	887.2	987.5	1190.3	1370.1	1412.9	1467.5	1566.5
60°	730.6	734.1	755.6	795.0	846.5	934.8	1157.7	1413.6	1495.0	1589.8	1792.6
62.5°	622.4	632.3	643.8	671.7	725.7	796.7	1011.1	1340.1	1466.3	1605.4	1884.5
65°	418.0	413.9	433.0	468.5	527.8	583.0	745.0	1105.3	1265.0	1456.5	1801.8
67.5°	258.8	259.4	272.3	307.0	351.7	394.6	472.2	704.5	846.1	1028.2	1443.5
70°	213.8	216.3	226.8	259.0	297.2	345.6	350.5	373.5	436.9	525.0	891.7
72.5°	169.7	170.7	181.4	208.3	262.3	328.8	416.2	283.8	278.9	292.2	452.3
75°	105.3	106.1	111.4	128.7	170.1	256.1	458.3	326.3	305.8	288.5	291.4
77.5°	54.4	56.0	58.9	66.7	89.3	143.0	360.8	413.7	390.3	366.9	321.2
80°	30.8	30.8	33.5	35.3	42.3	58.3	183.5	447.8	489.2	499.3	448.4
82.5°	13.7	15.4	20.7	22.2	24.2	26.7	60.7	269.0	373.3	466.3	576.3
85°	8.2	8.0	13.1	14.4	15.0	12.7	22.8	109.8	174.4	255.3	381.9
87.5°	3.3	3.5	5.5	6.0	7.0	5.1	8.6	23.6	34.7	50.3	71.0
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°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	293.1	293.1	292.9	292.6	292.4	291.8	291.6	291.2	291.0	290.4	290.2
5°	304.8	304.1	303.9	303.5	303.3	302.5	302.5	301.7	301.1	300.2	300.0
7.5°	318.7	317.9	317.3	316.9	316.7	315.2	315.2	314.0	313.8	312.8	312.3
10°	332.9	332.3	331.4	331.0	330.8	330.0	329.2	328.4	327.7	327.1	326.3
12.5°	347.0	345.8	345.4	344.8	344.4	343.7	343.5	341.7	341.7	341.1	340.3
15°	360.8	360.6	359.1	358.9	358.5	358.7	357.5	357.7	357.1	356.1	355.6
17.5°	377.6	376.2	376.8	375.8	376.0	375.6	375.1	374.9	375.3	375.1	375.6
20°	398.5	398.1	398.7	397.3	398.7	398.9	398.5	399.6	399.2	399.6	398.3
22.5°	423.4	421.9	421.9	423.0	423.6	425.4	424.4	425.2	426.0	426.7	425.8
25°	448.4	448.0	448.8	449.6	450.9	452.5	452.1	452.3	453.9	455.0	455.2
27.5°	473.9	473.9	476.3	476.3	478.0	479.8	480.4	481.2	482.5	483.9	483.9
30°	500.1	500.1	502.4	504.4	505.3	507.5	508.7	510.0	512.2	512.6	514.5
32.5°	530.1	530.7	533.0	534.2	536.0	538.7	539.1	540.6	543.2	544.0	545.5
35°	569.1	567.0	569.1	571.3	572.4	571.5	576.1	577.9	579.7	580.8	582.6
37.5°	609.3	605.8	606.0	605.6	603.1	604.6	604.6	604.2	605.4	605.2	606.0
40°	660.2	654.0	652.2	648.3	643.0	640.1	637.0	636.6	633.5	634.7	632.5
42.5°	730.0	720.7	715.8	703.7	697.1	689.3	681.7	675.2	671.7	667.8	664.9
45°	825.8	814.9	803.0	783.5	772.2	756.7	746.6	731.6	721.6	713.1	707.2
47.5°	946.1	927.8	918.2	899.9	880.2	856.6	835.0	814.1	797.1	778.6	764.0
50°	1085.8	1063.0	1055.5	1031.2	1020.2	993.7	970.7	944.8	918.2	890.2	863.6
52.5°	1209.6	1206.9	1210.0	1193.8	1193.4	1180.0	1154.6	1124.4	1099.6	1071.5	1036.4
55°	1357.9	1384.4	1390.2	1387.9	1400.0	1399.6	1397.1	1394.1	1374.4	1334.6	1322.4
57.5°	1619.8	1649.6	1693.5	1713.4	1757.3	1762.4	1803.1	1787.3	1817.4	1809.2	1814.8
60°	1886.4	1977.7	2061.0	2124.4	2186.0	2242.0	2310.6	2339.9	2361.9	2396.2	2432.3
62.5°	2005.6	2120.8	2220.1	2310.4	2386.9	2457.9	2516.8	2572.7	2616.6	2656.0	2686.3
65°	1957.4	2091.0	2187.9	2282.1	2353.5	2419.6	2478.0	2519.9	2563.6	2599.3	2631.6
67.5°	1629.7	1807.6	1934.0	2040.9	2130.6	2205.9	2266.7	2324.3	2355.3	2394.3	2411.8
70°	1079.5	1307.7	1486.4	1630.9	1773.1	1858.5	1930.5	1997.6	2032.9	2064.5	2084.0
72.5°	592.9	748.9	939.7	1111.5	1248.2	1360.2	1444.1	1507.8	1544.1	1571.2	1543.1
75°	335.9	412.9	506.3	601.3	704.9	783.9	806.1	833.2	839.6	825.6	789.5
77.5°	308.9	308.9	309.1	306.8	311.3	316.9	313.6	308.0	283.0	277.5	269.7
80°	401.6	357.9	311.1	255.5	208.3	175.7	165.6	166.4	174.4	190.0	207.3
82.5°	569.3	526.2	458.7	373.9	297.6	233.5	191.5	172.2	172.0	187.6	209.9
85°	415.2	418.7	403.7	357.1	284.8	224.3	181.2	139.1	125.6	125.6	124.0
87.5°	72.6	74.9	64.6	57.9	40.4	28.5	25.7	22.6	22.4	23.2	21.3
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	290.2	289.8	289.4	289.2	289.2	288.7	288.7	288.3	288.5	288.3	287.7
5°	299.6	299.4	298.8	297.8	297.6	296.7	297.0	296.1	296.1	295.7	294.7
7.5°	311.5	311.1	310.7	309.9	309.1	309.1	307.6	307.6	306.6	306.2	305.4
10°	325.7	324.5	323.8	323.0	322.8	322.6	321.2	321.2	319.9	319.7	319.1
12.5°	339.6	338.8	338.2	337.8	336.8	336.6	335.9	335.3	334.7	334.3	334.1
15°	354.8	354.4	353.8	353.8	353.8	352.8	352.2	351.7	351.7	351.1	351.5
17.5°	374.5	375.1	374.3	373.9	373.3	374.3	373.3	373.3	373.9	373.9	372.5
20°	398.9	399.8	398.9	399.2	398.7	398.9	399.2	399.6	400.4	398.9	399.2
22.5°	426.0	426.2	426.9	426.2	427.3	426.7	427.9	428.9	428.7	428.3	428.5
25°	455.6	455.0	455.2	457.0	458.5	458.1	458.3	459.9	459.5	459.1	459.3
27.5°	485.6	485.1	485.8	487.4	489.0	488.8	488.4	489.7	489.7	488.6	489.0
30°	515.3	515.9	517.0	517.0	517.8	518.6	518.0	519.4	519.6	518.8	519.8
32.5°	546.7	547.9	547.5	550.4	550.4	550.6	551.2	551.0	553.1	551.4	552.0
35°	584.5	584.9	587.3	589.4	590.6	591.7	591.7	592.3	593.3	592.5	593.7
37.5°	607.5	608.3	609.1	610.3	610.3	610.3	611.4	611.6	612.2	612.0	612.4
40°	632.7	632.9	633.1	633.3	634.1	634.5	633.5	635.0	633.9	634.3	635.0
42.5°	663.3	660.4	660.8	660.2	661.6	659.8	660.2	661.8	661.0	662.2	662.2
45°	698.8	695.5	692.6	691.0	691.0	688.5	688.9	689.5	690.6	692.2	695.1
47.5°	751.3	740.0	734.5	728.7	725.9	722.8	723.8	724.0	724.4	727.1	734.3
50°	837.3	818.4	803.9	786.4	779.8	774.5	771.4	771.6	771.6	777.2	784.4
52.5°	1003.5	968.4	933.8	903.4	877.3	864.8	850.2	846.5	846.7	851.5	856.4
55°	1290.6	1242.4	1205.7	1138.2	1117.6	1060.0	1029.6	1012.2	998.6	1005.2	1012.4
57.5°	1805.7	1761.2	1732.1	1651.4	1577.9	1557.0	1507.1	1466.7	1450.1	1430.8	1432.0
60°	2437.6	2414.6	2407.2	2360.0	2333.6	2251.3	2244.7	2193.6	2145.4	2103.7	2120.8
62.5°	2709.7	2720.4	2729.0	2745.7	2752.0	2744.2	2711.2	2688.6	2649.0	2594.4	2561.0
65°	2641.0	2665.4	2702.1	2736.8	2778.3	2812.8	2829.8	2823.2	2787.5	2731.3	2661.1
67.5°	2424.3	2449.1	2480.7	2524.6	2588.0	2655.2	2701.9	2731.7	2703.4	2652.7	2581.3
70°	2083.0	2107.2	2108.2	2169.6	2237.9	2322.5	2405.4	2436.6	2404.4	2370.5	2310.8
72.5°	1560.1	1545.5	1559.1	1570.4	1609.3	1662.7	1743.1	1739.7	1690.4	1664.1	1572.4
75°	733.3	723.4	709.0	699.6	690.6	671.7	680.7	642.1	628.8	634.1	554.9
77.5°	263.7	250.2	228.4	207.3	180.6	149.6	126.2	110.8	103.2	103.4	98.7
80°	221.2	227.8	224.7	203.8	173.8	141.4	105.9	80.2	68.5	63.6	60.5
82.5°	239.9	272.9	289.4	276.4	233.5	179.8	115.7	70.0	51.3	43.9	42.1
85°	133.0	133.2	129.1	123.3	109.4	75.1	50.1	33.2	26.7	23.8	23.0
87.5°	22.6	21.5	21.5	20.1	17.6	17.2	15.4	14.6	12.9	11.9	11.5
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°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	287.1	286.7	286.5	286.3	286.3	286.1	286.1	285.7	285.3	285.1	284.8
5°	293.7	293.3	292.9	292.4	292.4	292.0	291.6	291.2	290.6	289.6	289.4
7.5°	304.8	303.9	303.9	302.5	302.5	301.7	301.1	301.1	300.2	298.6	298.4
10°	318.5	317.1	316.5	315.6	315.2	314.4	314.4	313.6	313.2	312.6	310.5
12.5°	333.3	332.3	331.8	330.8	330.2	330.2	329.8	328.4	329.4	327.9	326.9
15°	351.1	350.9	349.1	349.7	349.5	349.3	349.5	348.3	348.1	348.1	346.8
17.5°	373.5	371.9	372.1	372.1	372.5	372.5	370.8	371.7	371.9	371.5	371.0
20°	399.8	399.2	399.8	398.5	399.8	399.8	400.6	400.4	400.6	401.0	401.0
22.5°	427.9	429.5	429.7	430.1	428.7	431.2	431.2	431.6	432.6	432.6	433.0
25°	462.0	461.1	460.1	461.5	462.0	463.6	464.0	464.0	465.6	465.6	466.3
27.5°	490.3	491.1	490.9	491.7	491.3	493.6	494.4	496.8	496.2	497.5	499.1
30°	519.4	521.1	520.2	520.4	521.5	522.9	524.5	527.0	527.4	530.7	531.5
32.5°	553.1	554.3	555.3	555.7	555.7	558.2	560.9	561.7	566.0	568.5	571.3
35°	595.8	596.0	596.6	597.2	596.8	599.5	602.1	602.9	607.5	608.1	614.0
37.5°	613.8	614.2	616.7	617.9	618.7	622.0	627.0	630.6	635.6	640.3	647.1
40°	636.4	638.9	641.1	643.0	646.0	650.6	658.1	661.8	669.2	678.1	684.6
42.5°	664.9	669.4	671.1	674.6	682.2	687.7	695.3	703.3	713.1	723.8	731.6
45°	698.8	703.1	709.2	713.1	722.0	730.8	742.9	749.9	759.9	772.2	780.9
47.5°	739.8	745.8	751.9	759.9	770.4	779.6	791.7	800.8	810.8	820.9	830.3
50°	790.9	799.7	808.0	816.4	830.3	838.1	850.0	859.5	868.9	879.0	887.6
52.5°	859.7	873.0	883.5	889.2	908.1	915.9	930.5	937.0	944.8	953.9	964.9
55°	1009.7	1030.4	1048.1	1058.3	1087.1	1097.3	1116.2	1125.8	1120.5	1132.0	1151.9
57.5°	1443.5	1469.0	1490.1	1504.1	1533.4	1547.8	1548.8	1584.9	1563.6	1584.7	1587.8
60°	2075.4	2095.5	2090.4	2090.6	2081.4	2068.0	2093.7	2054.7	2071.1	2072.1	2035.4
62.5°	2499.2	2468.4	2454.0	2430.2	2402.5	2381.2	2366.6	2335.2	2310.2	2290.3	2251.5
65°	2598.9	2545.6	2498.4	2453.8	2413.0	2384.7	2353.9	2320.2	2281.0	2248.0	2210.2
67.5°	2502.5	2427.8	2357.8	2299.1	2243.3	2205.9	2161.4	2129.4	2080.1	2036.6	2007.9
70°	2222.7	2119.3	2037.6	2000.1	1944.7	1864.4	1822.0	1781.9	1751.8	1712.4	1694.9
72.5°	1559.3	1431.6	1368.6	1371.1	1314.9	1257.4	1258.8	1234.4	1195.4	1194.2	1188.2
75°	573.0	521.3	484.9	486.6	465.6	443.3	449.4	456.0	443.3	469.1	429.1
77.5°	91.1	88.7	87.8	86.0	81.5	84.8	82.5	86.8	87.4	92.1	92.6
80°	58.1	55.6	55.0	54.0	53.8	53.8	53.4	53.4	53.4	53.6	53.2
82.5°	38.8	37.4	37.1	36.5	37.6	37.8	38.0	39.6	41.0	41.5	43.1
85°	21.1	20.1	20.1	19.7	20.5	20.7	22.6	24.8	27.7	28.9	31.6
87.5°	10.7	11.3	11.1	11.5	12.1	13.5	15.0	16.4	18.1	20.3	22.2
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1
2.5°	284.4	284.2	284.2	283.8	283.8	283.6	283.2	282.8	280.9	278.7	277.3
5°	288.7	288.3	288.1	287.7	287.1	287.1	286.5	285.7	282.2	278.5	276.2
7.5°	297.6	297.4	296.7	295.9	295.1	294.3	293.9	293.5	288.1	284.6	283.0
10°	310.3	310.1	308.7	308.4	307.2	307.4	306.4	305.6	302.1	298.2	295.9
12.5°	326.5	327.3	326.5	324.7	325.1	324.5	323.4	322.4	319.3	316.2	312.8
15°	346.6	345.6	344.8	346.4	345.0	344.8	345.4	345.6	341.9	338.6	333.7
17.5°	371.7	371.7	371.2	371.7	370.8	371.5	371.0	371.5	369.8	365.3	358.1
20°	400.2	401.8	401.8	401.2	401.0	402.2	402.8	400.6	401.0	397.1	384.2
22.5°	433.4	434.7	435.1	434.5	434.7	436.3	437.3	435.7	439.4	433.0	413.1
25°	467.7	469.5	468.7	468.9	470.6	472.4	474.3	472.6	479.8	470.0	443.9
27.5°	501.6	503.2	502.8	504.0	506.7	509.2	511.2	510.6	522.5	509.6	476.3
30°	533.6	537.5	538.3	539.7	543.0	547.1	550.4	550.2	565.6	548.1	502.8
32.5°	573.0	577.3	578.9	582.0	588.4	591.2	595.3	595.8	611.1	582.0	525.2
35°	618.5	622.8	626.3	628.6	635.8	639.3	643.4	645.2	655.5	613.6	540.8
37.5°	653.8	657.5	664.3	669.0	675.4	682.4	687.1	689.3	695.1	640.7	547.9
40°	692.4	700.4	707.0	714.2	721.1	726.7	731.0	734.5	732.2	663.3	544.9
42.5°	741.3	749.7	758.5	764.7	768.3	775.7	777.8	780.3	761.8	673.5	530.9
45°	792.2	798.9	806.3	810.8	815.8	819.4	820.1	820.3	783.7	667.6	505.7
47.5°	841.2	846.9	852.1	854.5	857.0	857.2	856.2	854.5	795.4	647.5	475.3
50°	895.0	898.5	900.7	900.9	903.2	898.9	896.0	888.4	794.2	616.7	443.3
52.5°	972.3	971.5	968.6	968.4	961.3	953.0	947.7	936.8	785.8	583.4	406.3
55°	1150.1	1142.3	1151.3	1128.3	1109.2	1096.5	1066.3	1044.4	794.2	552.5	363.9
57.5°	1577.1	1550.4	1553.3	1516.2	1475.5	1399.4	1354.5	1293.7	860.3	535.2	310.3
60°	2027.6	1983.7	1942.2	1876.3	1789.9	1693.3	1606.3	1511.2	926.0	514.1	253.2
62.5°	2213.5	2156.9	2084.8	1991.9	1880.9	1761.0	1640.7	1532.4	889.8	450.5	182.4
65°	2153.6	2085.9	2009.1	1887.8	1761.8	1622.5	1490.7	1376.2	741.1	329.4	110.2
67.5°	1940.8	1882.5	1787.9	1673.4	1517.4	1377.6	1247.3	1141.4	546.3	203.6	63.2
70°	1634.2	1553.5	1472.7	1362.7	1198.3	1066.5	945.2	851.7	346.6	100.6	46.6
72.5°	1127.9	1064.1	999.4	900.9	778.2	687.5	583.2	506.3	181.4	54.2	42.9
75°	439.4	432.4	425.0	380.3	338.6	271.3	238.3	214.9	75.5	47.0	42.3
77.5°	96.5	102.2	105.5	99.9	95.2	85.0	81.3	72.6	50.5	48.2	41.9
80°	53.2	53.2	53.2	53.8	52.7	52.7	52.1	51.1	47.2	48.2	41.0
82.5°	43.5	44.1	44.9	45.1	44.9	45.1	44.7	44.5	46.2	48.4	39.0
85°	33.2	35.3	36.5	38.2	39.8	40.8	41.2	41.5	42.5	46.0	34.1
87.5°	23.6	25.2	27.9	28.3	30.2	32.4	33.2	34.5	33.9	34.9	16.0
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°	285.1	285.1	285.1	285.1	285.1
2.5°	276.0	274.4	273.8	273.6	273.1
5°	274.4	273.4	272.5	271.9	272.3
7.5°	281.8	281.2	279.7	279.3	279.9
10°	294.9	293.5	291.4	291.6	291.4
12.5°	311.3	307.4	304.1	302.7	301.7
15°	328.1	320.6	313.8	310.7	309.5
17.5°	346.8	333.9	323.4	317.9	316.9
20°	366.5	348.7	335.1	328.6	327.5
22.5°	389.3	364.7	347.4	338.4	337.0
25°	411.5	379.0	356.1	345.0	343.1
27.5°	431.6	389.9	361.2	348.1	346.2
30°	448.4	398.5	365.5	350.5	348.5
32.5°	459.5	403.3	366.9	350.7	348.3
35°	463.0	400.2	360.8	342.1	340.1
37.5°	455.6	387.7	344.4	323.2	321.6
40°	438.8	364.5	318.5	296.5	294.5
42.5°	412.5	335.1	288.5	265.4	263.5
45°	383.4	303.7	256.7	233.5	231.7
47.5°	351.5	270.5	223.3	201.9	199.1
50°	316.7	234.4	189.2	168.3	165.6
52.5°	275.8	195.0	153.1	134.2	132.6
55°	228.0	155.4	121.9	108.2	106.5
57.5°	177.3	118.2	96.9	90.1	87.4
60°	128.7	89.9	77.2	73.9	72.4
62.5°	87.4	67.1	62.2	61.2	60.1
65°	59.3	52.5	51.1	51.3	50.7
67.5°	46.8	44.1	43.3	43.7	43.5
70°	41.0	39.0	38.8	39.2	39.0
72.5°	38.8	36.1	36.5	37.1	36.9
75°	37.8	34.9	35.7	36.1	35.1
77.5°	36.7	33.0	35.5	36.3	34.3
80°	35.3	31.4	37.1	36.7	32.8
82.5°	32.2	27.7	36.3	33.2	29.6
85°	26.3	20.7	40.8	29.3	21.5
87.5°	16.8	12.5	28.3	22.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)