

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: P146343

Luminaire Tested: **LDRL-T2-F03-E-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146343  
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-F03-E-8030  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (21) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6267.6 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G2

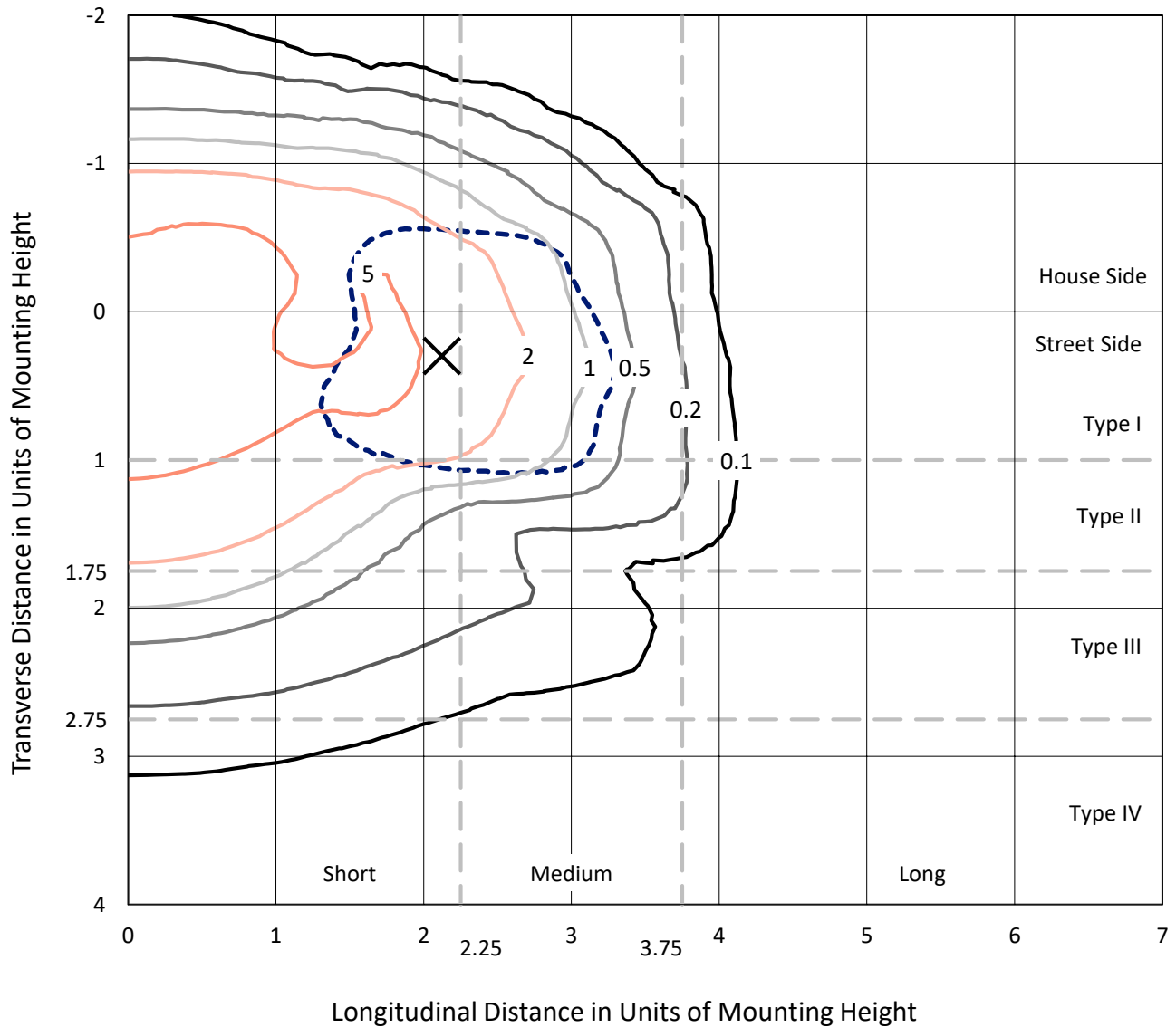
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

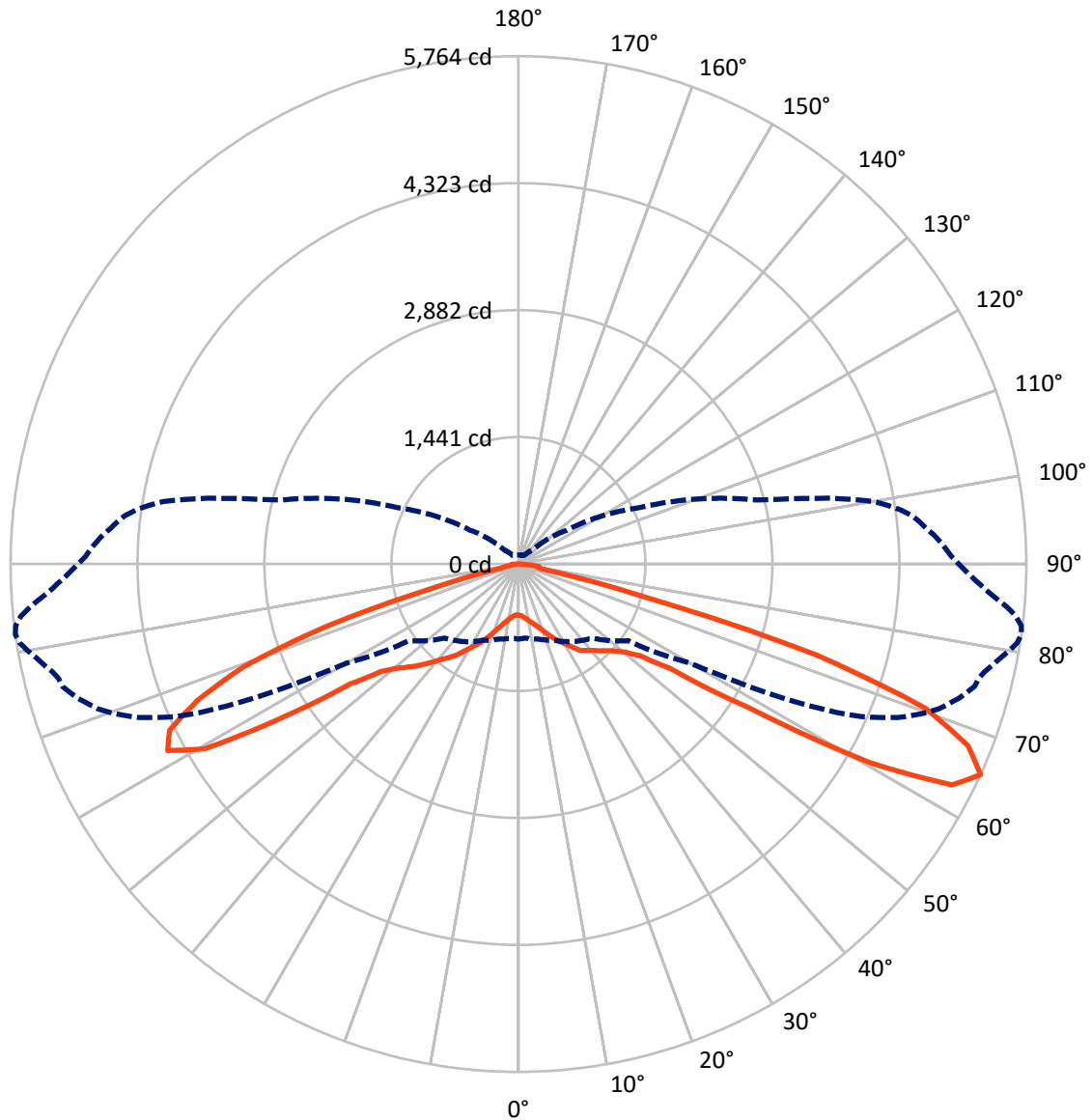
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	2307.2	0.0	2307.2
	% Fixture	36.8	0.0	36.8
<b>Street Side</b>	Lumens	3960.5	0.0	3960.5
	% Fixture	63.2	0.0	63.2
<b>Total</b>	Lumens	6267.6	0.0	6267.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	0.9
10°-20°	207.6	3.3
20°-30°	411.7	6.6
30°-40°	702.5	11.2
40°-50°	1053.4	16.8
50°-60°	1466.2	23.4
60°-70°	1684.5	26.9
70°-80°	581.3	9.3
80°-90°	101.7	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°	6267.6	100.0
0°-180°	6267.6	100.0



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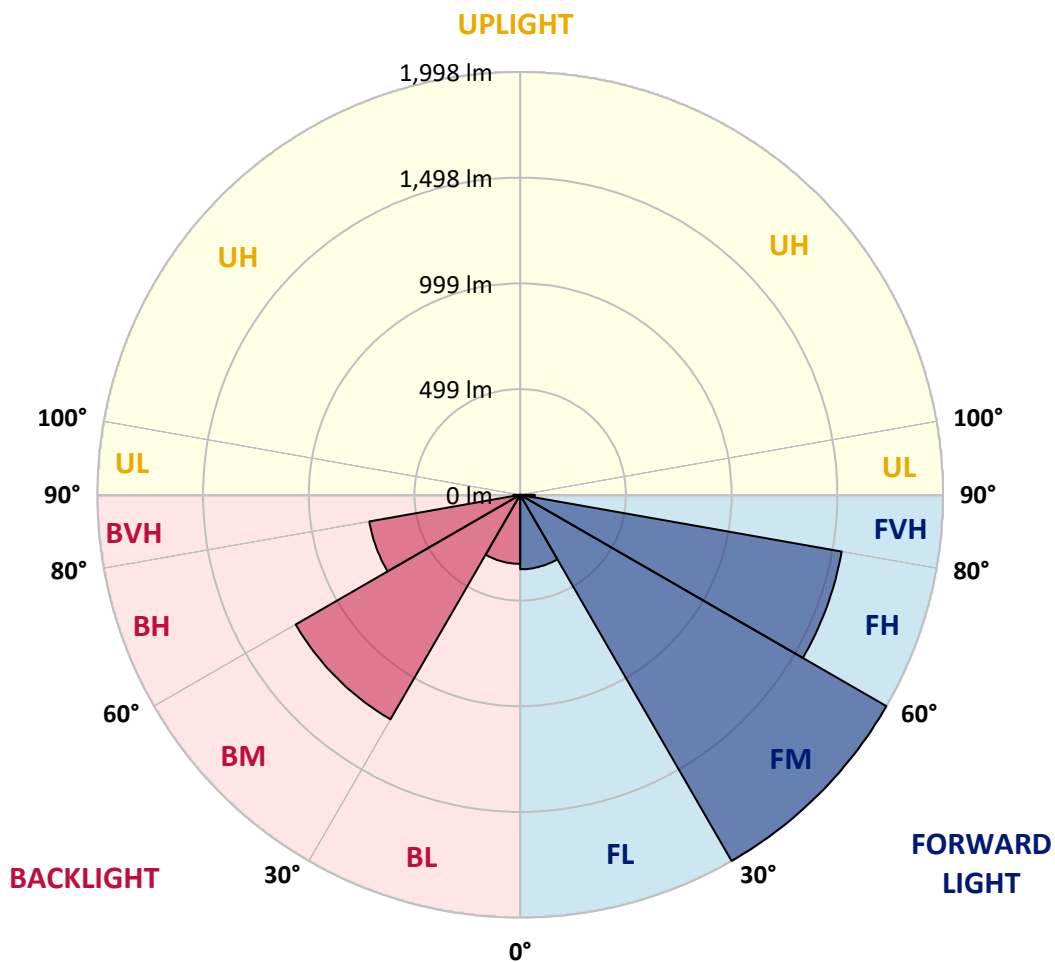
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	351.8	5.6			
FM	(30°-60°)	1997.6	31.9			
FH	(60°-80°)	1542.0	24.6			G1/1800
FVH	(80°-90°)	69.0	1.1			G1/100
BL	(0°-30°)	326.3	5.2	B1/500		
BM	(30°-60°)	1224.5	19.5	B2/2500		
BH	(60°-80°)	723.7	11.5	B2/1000		G2/1000
BVH	(80°-90°)	32.6	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	612.8	612.4	612.0	610.3	609.5	606.2	602.8	600.7	599.1	599.9	597.4
5°	648.4	648.4	646.7	644.6	642.1	637.5	629.2	625.0	624.1	624.1	621.2
7.5°	684.8	687.3	682.7	681.0	676.8	669.7	660.1	654.7	653.0	653.0	650.5
10°	730.7	729.5	724.5	721.1	712.8	703.1	690.2	683.9	681.4	683.5	679.3
12.5°	779.2	778.8	771.3	765.0	753.3	737.8	720.7	712.3	710.7	710.7	708.2
15°	828.6	829.0	820.6	808.9	790.5	769.6	750.4	742.4	740.4	739.5	736.6
17.5°	866.2	870.4	862.0	847.0	824.4	801.4	780.9	773.0	772.5	771.7	768.4
20°	887.5	888.3	883.7	872.9	852.8	830.6	816.4	812.7	812.3	812.7	813.5
22.5°	886.7	887.9	886.2	882.1	869.1	857.0	855.3	857.4	858.7	857.4	860.3
25°	880.0	881.6	881.6	883.7	880.4	884.6	898.0	903.8	904.2	905.1	911.3
27.5°	894.6	896.3	895.9	899.6	902.6	917.2	941.4	951.9	953.1	956.1	961.9
30°	962.3	962.7	955.2	954.8	957.7	969.4	994.1	1006.2	1005.0	1010.8	1014.6
32.5°	1069.3	1072.7	1065.2	1057.2	1056.0	1057.6	1062.2	1070.6	1069.3	1072.3	1077.3
35°	1191.4	1191.8	1187.7	1192.3	1194.8	1183.5	1161.7	1159.6	1153.0	1154.2	1155.9
37.5°	1303.5	1306.4	1314.3	1343.6	1360.3	1332.7	1290.1	1263.3	1259.1	1257.1	1242.4
40°	1408.4	1423.0	1442.2	1480.3	1503.3	1513.3	1452.7	1398.8	1384.1	1378.3	1355.3
42.5°	1531.3	1538.8	1561.4	1604.9	1635.4	1680.9	1640.4	1581.0	1563.9	1538.8	1510.0
45°	1635.4	1640.4	1654.6	1691.4	1755.4	1831.4	1836.0	1794.7	1781.3	1756.2	1714.0
47.5°	1705.2	1704.8	1715.2	1751.2	1834.4	1950.6	2019.6	2017.9	2002.4	1993.6	1957.7
50°	1732.4	1731.9	1738.6	1778.8	1869.5	2021.6	2173.8	2226.1	2225.7	2229.0	2210.6
52.5°	1737.4	1737.0	1737.8	1770.0	1862.4	2046.3	2285.0	2408.3	2426.3	2448.9	2469.4
55°	1699.8	1703.9	1713.1	1747.0	1835.6	2036.3	2367.4	2579.3	2622.4	2668.4	2742.8
57.5°	1612.8	1620.7	1652.5	1713.1	1807.2	2011.6	2424.6	2790.8	2878.2	2989.4	3190.9
60°	1488.2	1495.3	1539.2	1619.5	1724.4	1904.2	2358.2	2879.5	3045.4	3238.6	3651.6
62.5°	1267.9	1288.0	1311.4	1368.2	1478.2	1622.8	2059.7	2729.8	2986.9	3270.3	3838.9
65°	851.6	843.2	882.1	954.4	1075.2	1187.7	1517.5	2251.6	2576.8	2966.8	3670.4
67.5°	527.2	528.4	554.7	625.4	716.5	803.9	961.9	1435.1	1723.6	2094.4	2940.5
70°	435.6	440.6	461.9	527.6	605.3	704.0	714.0	760.8	890.0	1069.3	1816.4
72.5°	345.7	347.8	369.5	424.3	534.3	669.7	847.8	578.2	568.1	595.3	921.4
75°	214.5	216.1	227.0	262.1	346.6	521.7	933.5	664.7	622.9	587.8	593.6
77.5°	110.8	114.1	120.0	135.9	181.8	291.4	734.9	842.8	795.1	747.5	654.2
80°	62.7	62.7	68.1	71.9	86.1	118.7	373.7	912.2	996.6	1017.1	913.4
82.5°	28.0	31.4	42.2	45.1	49.3	54.3	123.7	548.1	760.4	949.8	1173.9
85°	16.7	16.3	26.8	29.3	30.5	25.9	46.4	223.7	355.3	520.0	778.0
87.5°	6.7	7.1	11.3	12.1	14.2	10.5	17.6	48.1	70.6	102.4	144.6
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°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	597.0	597.0	596.5	596.1	595.7	594.5	594.0	593.2	592.8	591.5	591.1
5°	620.8	619.5	619.1	618.3	617.9	616.2	616.2	614.5	613.3	611.6	611.2
7.5°	649.2	647.5	646.3	645.5	645.0	642.1	642.1	639.6	639.2	637.1	636.3
10°	678.1	676.8	675.1	674.3	673.9	672.2	670.5	668.9	667.6	666.4	664.7
12.5°	706.9	704.4	703.6	702.3	701.5	700.2	699.8	696.0	696.0	694.8	693.1
15°	734.9	734.5	731.6	731.2	730.3	730.7	728.2	728.6	727.4	725.3	724.5
17.5°	769.2	766.3	767.5	765.4	765.9	765.0	764.2	763.8	764.6	764.2	765.0
20°	811.8	811.0	812.3	809.3	812.3	812.7	811.8	813.9	813.1	813.9	811.4
22.5°	862.4	859.5	859.5	861.6	862.8	866.6	864.5	866.2	867.9	869.1	867.4
25°	913.4	912.6	914.3	915.9	918.4	921.8	920.9	921.4	924.7	926.8	927.2
27.5°	965.3	965.3	970.3	970.3	973.6	977.4	978.6	980.3	982.8	985.7	985.7
30°	1018.8	1018.8	1023.4	1027.5	1029.2	1033.8	1036.3	1038.8	1043.4	1044.3	1048.0
32.5°	1079.8	1081.1	1085.7	1088.2	1091.9	1097.4	1098.2	1101.1	1106.6	1108.2	1111.2
35°	1159.2	1155.0	1159.2	1163.8	1165.9	1164.2	1173.4	1177.2	1181.0	1183.1	1186.8
37.5°	1241.2	1234.1	1234.5	1233.6	1228.6	1231.5	1231.5	1230.7	1233.2	1232.8	1234.5
40°	1344.8	1332.3	1328.5	1320.6	1309.7	1303.9	1297.6	1296.8	1290.5	1293.0	1288.4
42.5°	1487.0	1468.2	1458.1	1433.5	1420.1	1404.2	1388.7	1375.4	1368.2	1360.3	1354.5
45°	1682.2	1660.0	1635.8	1596.1	1573.1	1541.3	1520.8	1490.3	1469.8	1452.7	1440.6
47.5°	1927.2	1890.0	1870.3	1833.1	1793.0	1744.9	1701.0	1658.4	1623.7	1586.0	1556.4
50°	2211.9	2165.5	2150.0	2100.7	2078.1	2024.2	1977.3	1924.7	1870.3	1813.5	1759.1
52.5°	2463.9	2458.5	2464.8	2431.7	2430.9	2403.7	2351.9	2290.4	2239.9	2182.6	2111.1
55°	2766.2	2820.1	2831.8	2827.2	2851.9	2851.0	2846.0	2839.8	2799.6	2718.5	2693.9
57.5°	3299.6	3360.2	3449.7	3490.2	3579.7	3590.1	3672.9	3640.7	3702.2	3685.5	3696.7
60°	3842.6	4028.7	4198.4	4327.6	4453.0	4567.1	4706.7	4766.5	4811.2	4881.1	4954.6
62.5°	4085.5	4320.0	4522.4	4706.3	4862.2	5006.9	5126.9	5240.6	5330.0	5410.3	5472.2
65°	3987.3	4259.4	4456.7	4648.6	4794.1	4928.7	5047.8	5133.1	5222.2	5294.9	5360.5
67.5°	3319.7	3682.1	3939.6	4157.4	4340.1	4493.5	4617.3	4734.7	4797.9	4877.3	4912.8
70°	2198.9	2663.8	3027.9	3322.2	3611.9	3785.8	3932.5	4069.2	4141.1	4205.5	4245.2
72.5°	1207.7	1525.4	1914.2	2264.1	2542.5	2770.8	2941.8	3071.3	3145.3	3200.5	3143.3
75°	684.3	841.1	1031.3	1224.9	1436.0	1596.9	1642.1	1697.2	1710.2	1681.8	1608.2
77.5°	629.2	629.2	629.6	625.0	634.2	645.5	638.8	627.5	576.5	565.2	549.3
80°	818.1	729.1	633.8	520.5	424.3	357.8	337.4	339.0	355.3	387.1	422.2
82.5°	1159.6	1071.9	934.3	761.7	606.2	475.7	390.0	350.7	350.3	382.1	427.7
85°	845.7	852.8	822.3	727.4	580.2	456.9	369.1	283.4	255.8	255.8	252.5
87.5°	148.0	152.6	131.7	117.9	82.4	58.1	52.3	46.0	45.6	47.2	43.5
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):**

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	591.1	590.3	589.4	589.0	589.0	588.2	588.2	587.3	587.8	587.3	586.1
5°	610.3	609.9	608.7	606.6	606.2	604.5	604.9	603.2	603.2	602.4	600.3
7.5°	634.6	633.8	632.9	631.2	629.6	629.6	626.6	626.6	624.6	623.7	622.0
10°	663.4	660.9	659.7	658.0	657.6	657.2	654.2	654.2	651.7	651.3	650.1
12.5°	691.9	690.2	688.9	688.1	686.0	685.6	684.3	683.1	681.8	681.0	680.6
15°	722.8	722.0	720.7	720.7	720.7	718.6	717.4	716.5	716.5	715.3	716.1
17.5°	762.9	764.2	762.5	761.7	760.4	762.5	760.4	760.4	761.7	761.7	758.7
20°	812.7	814.3	812.7	813.1	812.3	812.7	813.1	813.9	815.6	812.7	813.1
22.5°	867.9	868.3	869.5	868.3	870.4	869.1	871.6	873.7	873.3	872.5	872.9
25°	928.1	926.8	927.2	931.0	933.9	933.1	933.5	936.8	936.0	935.2	935.6
27.5°	989.1	988.2	989.5	992.8	996.2	995.8	994.9	997.4	997.4	995.4	996.2
30°	1049.7	1051.0	1053.0	1053.0	1054.7	1056.4	1055.1	1058.1	1058.5	1056.8	1058.9
32.5°	1113.7	1116.2	1115.3	1121.2	1121.2	1121.6	1122.9	1122.4	1126.6	1123.3	1124.5
35°	1190.6	1191.4	1196.4	1200.6	1203.1	1205.2	1205.2	1206.5	1208.6	1206.9	1209.4
37.5°	1237.4	1239.1	1240.7	1243.3	1243.3	1243.3	1245.3	1245.8	1247.0	1246.6	1247.4
40°	1288.8	1289.2	1289.7	1290.1	1291.7	1292.6	1290.5	1293.4	1291.3	1292.2	1293.4
42.5°	1351.1	1345.3	1346.1	1344.8	1347.8	1344.0	1344.8	1348.2	1346.5	1349.0	1349.0
45°	1423.4	1416.7	1410.9	1407.5	1407.5	1402.5	1403.4	1404.6	1406.7	1410.1	1415.9
47.5°	1530.4	1507.5	1496.2	1484.5	1478.6	1472.3	1474.4	1474.8	1475.7	1481.1	1495.8
50°	1705.6	1667.1	1637.5	1601.9	1588.6	1577.7	1571.4	1571.8	1571.8	1583.1	1597.8
52.5°	2044.2	1972.7	1902.1	1840.2	1787.1	1761.6	1731.9	1724.4	1724.8	1734.5	1744.5
55°	2629.1	2530.8	2456.0	2318.5	2276.7	2159.2	2097.3	2061.8	2034.2	2047.6	2062.2
57.5°	3678.3	3587.6	3528.3	3364.0	3214.3	3171.7	3070.1	2987.7	2953.9	2914.6	2917.1
60°	4965.5	4918.7	4903.6	4807.5	4753.5	4585.9	4572.5	4468.4	4370.2	4285.3	4320.0
62.5°	5519.8	5541.6	5559.1	5593.0	5605.9	5590.0	5522.7	5476.8	5396.1	5284.9	5216.7
65°	5379.8	5429.5	5504.4	5575.0	5659.4	5729.7	5764.4	5751.0	5678.3	5563.7	5420.7
67.5°	4938.3	4988.9	5053.3	5142.7	5271.9	5408.6	5503.9	5564.5	5506.9	5403.6	5258.1
70°	4243.1	4292.4	4294.5	4419.5	4558.7	4731.0	4899.9	4963.4	4897.8	4828.8	4707.1
72.5°	3178.0	3148.3	3175.9	3198.9	3278.3	3387.0	3550.8	3543.7	3443.4	3389.9	3203.0
75°	1493.7	1473.6	1444.3	1425.1	1406.7	1368.2	1386.6	1308.1	1280.9	1291.7	1130.4
77.5°	537.2	509.6	465.3	422.2	367.9	304.8	257.1	225.7	210.3	210.7	201.1
80°	450.6	464.0	457.8	415.1	354.1	288.0	215.7	163.5	139.6	129.6	123.3
82.5°	488.7	556.0	589.4	563.1	475.7	366.2	235.8	142.6	104.5	89.5	85.7
85°	270.9	271.3	262.9	251.2	222.8	153.0	102.0	67.7	54.3	48.5	46.8
87.5°	46.0	43.9	43.9	41.0	36.0	35.1	31.4	29.7	26.3	24.2	23.4
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°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	584.8	584.0	583.6	583.2	583.2	582.7	582.7	581.9	581.1	580.7	580.2
5°	598.2	597.4	596.5	595.7	595.7	594.9	594.0	593.2	591.9	589.9	589.4
7.5°	620.8	619.1	619.1	616.2	616.2	614.5	613.3	613.3	611.6	608.3	607.8
10°	648.8	645.9	644.6	642.9	642.1	640.4	640.4	638.8	637.9	636.7	632.5
12.5°	678.9	676.8	676.0	673.9	672.6	672.6	671.8	668.9	671.0	668.0	665.9
15°	715.3	714.9	711.1	712.3	711.9	711.5	711.9	709.4	709.0	709.0	706.5
17.5°	760.8	757.5	757.9	757.9	758.7	758.7	755.4	757.1	757.5	756.7	755.8
20°	814.3	813.1	814.3	811.8	814.3	814.3	816.0	815.6	816.0	816.9	816.9
22.5°	871.6	875.0	875.4	876.2	873.3	878.3	878.3	879.1	881.2	881.2	882.1
25°	941.0	939.3	937.2	940.2	941.0	944.4	945.2	945.2	948.5	948.5	949.8
27.5°	998.7	1000.4	1000.0	1001.6	1000.8	1005.4	1007.1	1012.1	1010.8	1013.3	1016.7
30°	1058.1	1061.4	1059.7	1060.2	1062.2	1065.2	1068.5	1073.5	1074.4	1081.1	1082.7
32.5°	1126.6	1129.1	1131.2	1132.1	1132.1	1137.1	1142.5	1144.2	1153.0	1158.0	1163.8
35°	1213.6	1214.0	1215.2	1216.5	1215.7	1221.1	1226.5	1228.2	1237.4	1238.7	1250.8
37.5°	1250.4	1251.2	1256.2	1258.7	1260.4	1267.1	1277.1	1284.6	1294.7	1304.3	1318.1
40°	1296.3	1301.4	1306.0	1309.7	1316.0	1325.2	1340.7	1348.2	1363.2	1381.2	1394.6
42.5°	1354.5	1363.7	1367.0	1374.1	1389.6	1400.9	1416.3	1432.6	1452.7	1474.4	1490.3
45°	1423.4	1432.2	1444.8	1452.7	1470.7	1488.6	1513.3	1527.5	1548.0	1573.1	1590.6
47.5°	1507.0	1519.2	1531.7	1548.0	1569.3	1588.1	1612.8	1631.2	1651.7	1672.2	1691.4
50°	1611.1	1629.1	1645.8	1663.0	1691.4	1707.3	1731.5	1750.8	1770.0	1790.5	1808.0
52.5°	1751.2	1778.3	1799.7	1811.4	1849.8	1865.7	1895.4	1908.8	1924.7	1943.1	1965.6
55°	2056.8	2099.0	2134.9	2155.8	2214.4	2235.3	2273.7	2293.4	2282.5	2305.9	2346.5
57.5°	2940.5	2992.3	3035.4	3063.8	3123.6	3152.9	3155.0	3228.5	3185.1	3228.1	3234.4
60°	4227.7	4268.6	4258.2	4258.6	4239.8	4212.6	4264.9	4185.4	4218.9	4221.0	4146.1
62.5°	5090.9	5028.2	4998.9	4950.4	4894.0	4850.5	4820.9	4756.9	4705.9	4665.3	4586.3
65°	5294.1	5185.4	5089.2	4998.5	4915.3	4857.6	4794.9	4726.4	4646.5	4579.2	4502.3
67.5°	5097.6	4945.4	4802.9	4683.3	4569.6	4493.5	4402.8	4337.6	4237.3	4148.6	4090.1
70°	4527.8	4317.1	4150.7	4074.2	3961.4	3797.9	3711.4	3629.9	3568.4	3488.1	3452.6
72.5°	3176.3	2916.3	2787.9	2792.9	2678.4	2561.3	2564.3	2514.5	2435.1	2432.6	2420.5
75°	1167.2	1061.8	987.8	991.2	948.5	903.0	915.5	928.9	903.0	955.6	874.1
77.5°	185.6	180.6	178.9	175.2	166.0	172.7	168.1	176.8	178.1	187.7	188.5
80°	118.3	113.3	112.0	109.9	109.5	109.5	108.7	108.7	108.7	109.1	108.3
82.5°	79.0	76.1	75.7	74.4	76.5	76.9	77.3	80.7	83.6	84.4	87.8
85°	43.1	41.0	41.0	40.1	41.8	42.2	46.0	50.6	56.4	58.9	64.4
87.5°	21.7	23.0	22.6	23.4	24.7	27.6	30.5	33.4	36.8	41.4	45.1
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):**

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7	580.7
2.5°	579.4	579.0	579.0	578.2	578.2	577.7	576.9	576.1	572.3	567.7	564.8
5°	588.2	587.3	586.9	586.1	584.8	584.8	583.6	581.9	574.8	567.3	562.7
7.5°	606.2	605.7	604.5	602.8	601.1	599.5	598.6	597.8	586.9	579.8	576.5
10°	632.1	631.7	628.7	628.3	625.8	626.2	624.1	622.5	615.4	607.4	602.8
12.5°	665.1	666.8	665.1	661.3	662.2	660.9	658.8	656.7	650.5	644.2	637.1
15°	706.1	704.0	702.3	705.7	702.7	702.3	703.6	704.0	696.5	689.8	679.7
17.5°	757.1	757.1	756.2	757.1	755.4	756.7	755.8	756.7	753.3	744.1	729.5
20°	815.2	818.5	818.5	817.3	816.9	819.4	820.6	816.0	816.9	808.9	782.6
22.5°	882.9	885.4	886.2	885.0	885.4	888.8	890.8	887.5	895.0	882.1	841.5
25°	952.7	956.5	954.8	955.2	958.6	962.3	966.1	962.7	977.4	957.3	904.2
27.5°	1021.7	1025.0	1024.2	1026.7	1032.1	1037.2	1041.3	1040.1	1064.3	1038.0	970.3
30°	1086.9	1094.9	1096.5	1099.4	1106.1	1114.5	1121.2	1120.8	1152.1	1116.6	1024.2
32.5°	1167.2	1176.0	1179.3	1185.6	1198.5	1204.4	1212.7	1213.6	1244.9	1185.6	1069.8
35°	1260.0	1268.8	1275.9	1280.5	1295.1	1302.2	1310.6	1314.3	1335.2	1249.9	1101.5
37.5°	1331.9	1339.4	1353.2	1362.8	1375.8	1390.0	1399.6	1404.2	1415.9	1305.1	1116.2
40°	1410.5	1426.8	1440.2	1454.8	1469.0	1480.3	1489.1	1496.2	1491.6	1351.1	1109.9
42.5°	1510.0	1527.1	1545.1	1557.6	1565.1	1580.2	1584.4	1589.4	1551.8	1372.0	1081.5
45°	1613.6	1627.4	1642.5	1651.7	1661.7	1669.2	1670.5	1670.9	1596.5	1359.9	1030.1
47.5°	1713.6	1725.3	1735.7	1740.7	1745.7	1746.2	1744.1	1740.7	1620.3	1318.9	968.2
50°	1823.1	1830.2	1834.8	1835.2	1839.8	1831.0	1825.2	1809.7	1617.8	1256.2	903.0
52.5°	1980.7	1979.0	1973.2	1972.7	1958.1	1941.4	1930.5	1908.4	1600.7	1188.5	827.7
55°	2342.7	2326.8	2345.2	2298.4	2259.5	2233.6	2172.1	2127.4	1617.8	1125.4	741.2
57.5°	3212.6	3158.3	3164.2	3088.5	3005.7	2850.6	2759.1	2635.3	1752.4	1090.3	632.1
60°	4130.2	4040.8	3956.3	3822.2	3646.2	3449.3	3272.0	3078.5	1886.2	1047.2	515.9
62.5°	4509.0	4393.6	4246.9	4057.5	3831.3	3587.2	3342.2	3121.5	1812.6	917.6	371.6
65°	4386.9	4249.0	4092.6	3845.6	3588.9	3305.0	3036.7	2803.4	1509.5	671.0	224.5
67.5°	3953.4	3834.7	3642.0	3408.7	3091.0	2806.3	2540.9	2325.1	1112.8	414.7	128.8
70°	3328.9	3164.6	2999.9	2775.8	2440.9	2172.6	1925.5	1734.9	706.1	204.8	94.9
72.5°	2297.6	2167.5	2035.9	1835.2	1585.2	1400.4	1188.1	1031.3	369.5	110.4	87.4
75°	895.0	880.8	865.8	774.6	689.8	552.7	485.3	437.7	153.8	95.7	86.1
77.5°	196.5	208.2	214.9	203.6	194.0	173.1	165.5	148.0	102.8	98.2	85.3
80°	108.3	108.3	108.3	109.5	107.4	107.4	106.2	104.1	96.1	98.2	83.6
82.5°	88.6	89.9	91.6	92.0	91.6	92.0	91.1	90.7	94.1	98.7	79.4
85°	67.7	71.9	74.4	77.8	81.1	83.2	84.0	84.4	86.5	93.6	69.4
87.5°	48.1	51.4	56.9	57.7	61.5	66.1	67.7	70.2	69.0	71.1	32.6
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):**

	145°	155°	165°	175°	180°
0°	580.7	580.7	580.7	580.7	580.7
2.5°	562.3	558.9	557.7	557.2	556.4
5°	558.9	556.8	555.2	553.9	554.7
7.5°	574.0	572.7	569.8	569.0	570.2
10°	600.7	597.8	593.6	594.0	593.6
12.5°	634.2	626.2	619.5	616.6	614.5
15°	668.4	653.0	639.2	632.9	630.4
17.5°	706.5	680.2	658.8	647.5	645.5
20°	746.6	710.3	682.7	669.3	667.2
22.5°	793.0	742.9	707.7	689.4	686.4
25°	838.2	772.1	725.3	702.7	699.0
27.5°	879.1	794.3	735.8	709.0	705.2
30°	913.4	811.8	744.5	714.0	709.8
32.5°	936.0	821.5	747.5	714.4	709.4
35°	943.1	815.2	734.9	696.9	692.7
37.5°	928.1	789.7	701.5	658.4	655.1
40°	893.8	742.4	648.8	604.1	599.9
42.5°	840.3	682.7	587.8	540.5	536.8
45°	780.9	618.7	523.0	475.7	472.0
47.5°	716.1	551.0	454.8	411.4	405.5
50°	645.0	477.4	385.4	342.8	337.4
52.5°	561.8	397.1	311.9	273.4	270.1
55°	464.4	316.5	248.3	220.3	217.0
57.5°	361.2	240.8	197.3	183.5	178.1
60°	262.1	183.1	157.2	150.5	147.6
62.5°	178.1	136.7	126.7	124.6	122.5
65°	120.8	107.0	104.1	104.5	103.3
67.5°	95.3	89.9	88.2	89.0	88.6
70°	83.6	79.4	79.0	79.8	79.4
72.5°	79.0	73.6	74.4	75.7	75.2
75°	76.9	71.1	72.7	73.6	71.5
77.5°	74.8	67.3	72.3	74.0	69.8
80°	71.9	64.0	75.7	74.8	66.9
82.5°	65.6	56.4	74.0	67.7	60.2
85°	53.5	42.2	83.2	59.8	43.9
87.5°	34.3	25.5	57.7	45.6	29.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)