

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: P146355

Luminaire Tested: **LDRL-T2-F04-E**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146355  
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-F04-E  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9901.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 lumens/watt  
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G3

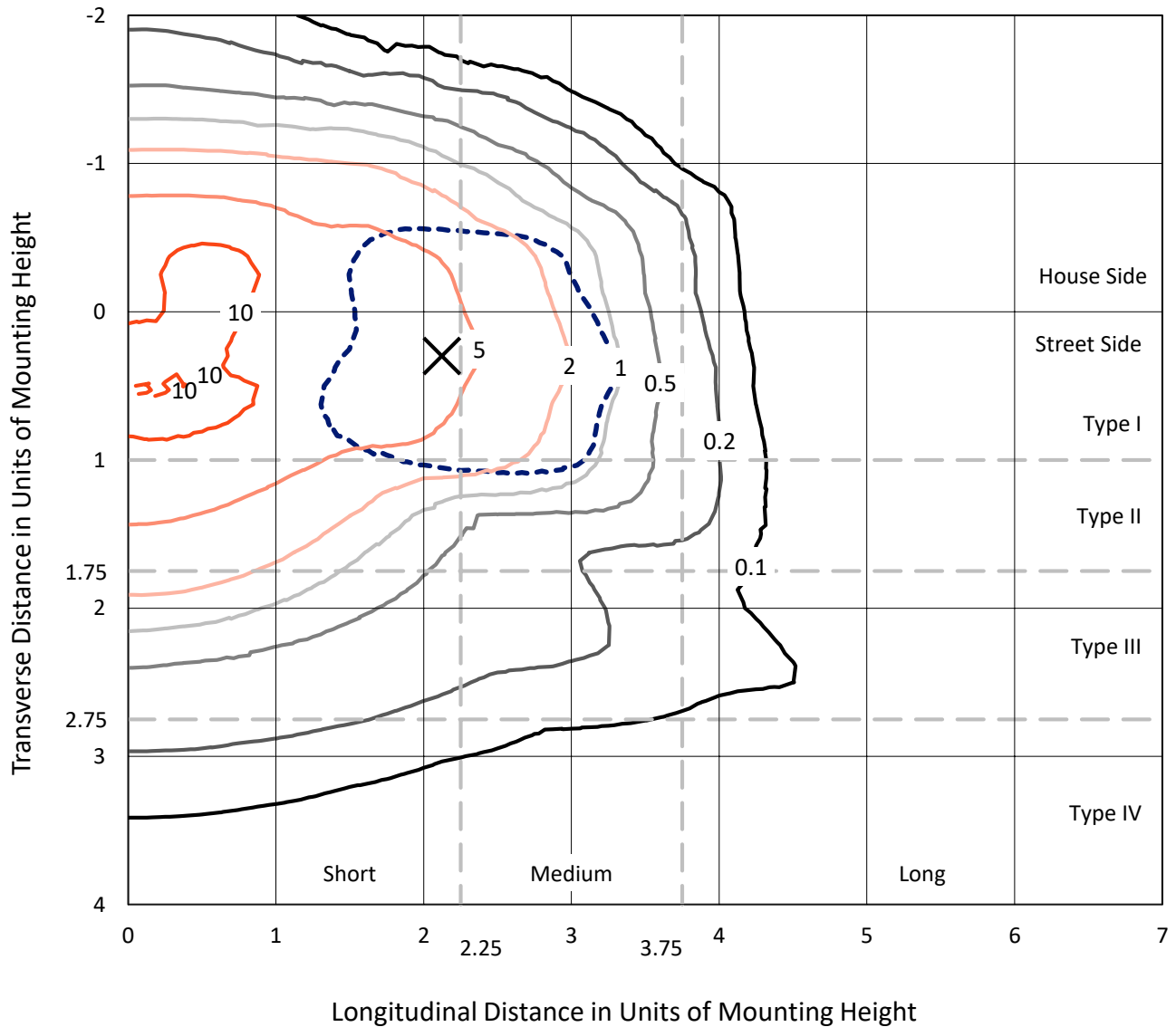
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

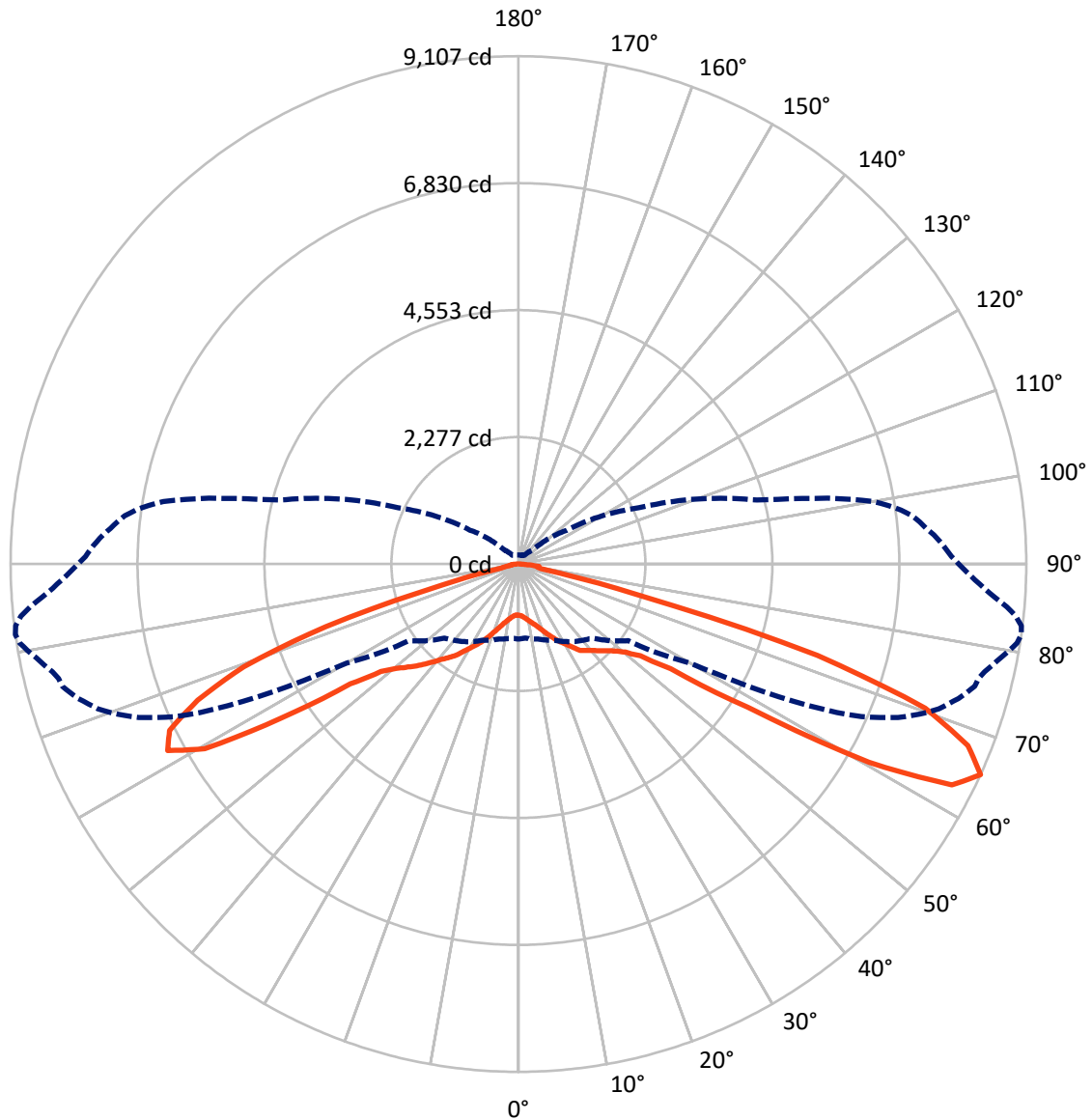
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 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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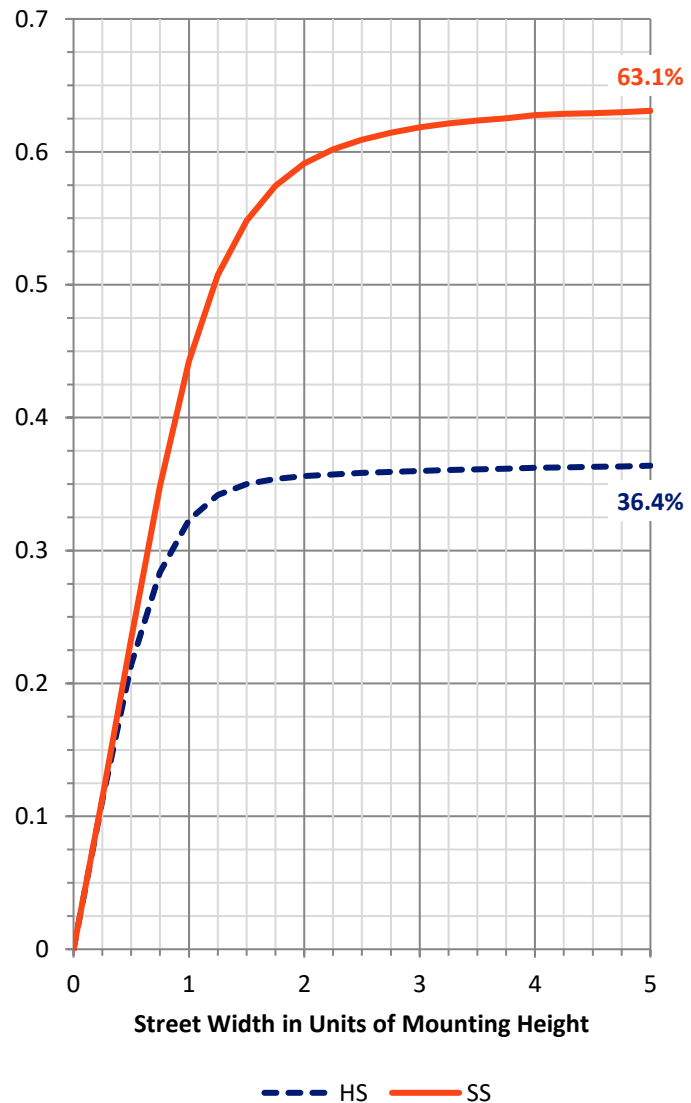
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3644.8	0.0	3644.8
	% Fixture	36.8	0.0	36.8
<b>Street Side</b>	Lumens	6256.7	0.0	6256.7
	% Fixture	63.2	0.0	63.2
<b>Total</b>	Lumens	9901.6	0.0	9901.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.1	0.9
10°-20°	327.9	3.3
20°-30°	650.4	6.6
30°-40°	1109.8	11.2
40°-50°	1664.1	16.8
50°-60°	2316.3	23.4
60°-70°	2661.1	26.9
70°-80°	918.3	9.3
80°-90°	160.6	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°	9901.6	100.0
0°-180°	9901.6	100.0

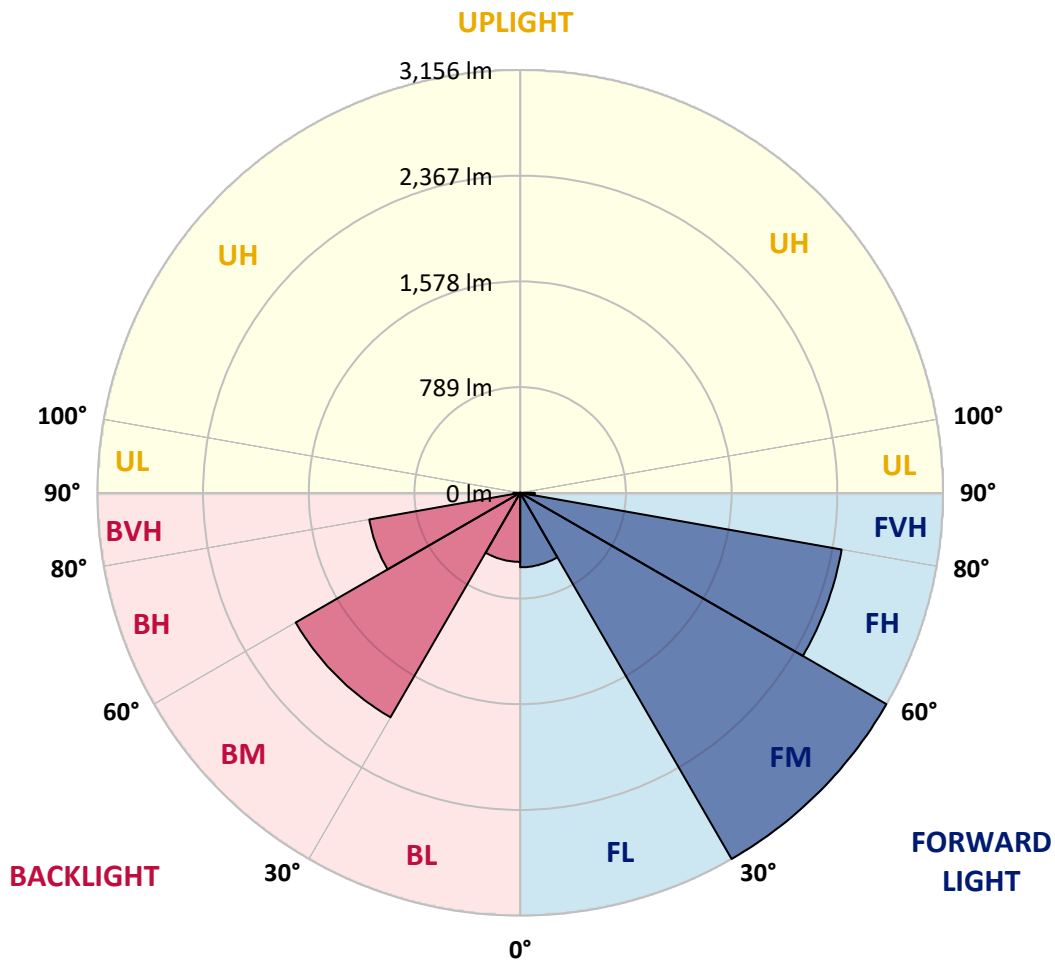


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	555.8	5.6			
FM (30°-60°)	3155.8	31.9			
FH (60°-80°)	2436.1	24.6			G2/5000
FVH (80°-90°)	109.1	1.1			G2/225
BL (0°-30°)	515.6	5.2	B2/1000		
BM (30°-60°)	1934.4	19.5	B2/2500		
BH (60°-80°)	1143.3	11.5	B3/2500		G3/2500
BVH (80°-90°)	51.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	968.2	967.5	966.9	964.2	962.9	957.6	952.3	949.0	946.4	947.7	943.7
5°	1024.3	1024.3	1021.7	1018.4	1014.4	1007.1	993.9	987.3	986.0	986.0	981.4
7.5°	1081.8	1085.7	1078.5	1075.8	1069.2	1058.0	1042.8	1034.2	1031.6	1031.6	1027.6
10°	1154.4	1152.4	1144.5	1139.2	1126.0	1110.8	1090.4	1080.4	1076.5	1079.8	1073.2
12.5°	1231.0	1230.4	1218.5	1208.6	1190.1	1165.6	1138.6	1125.4	1122.7	1122.7	1118.8
15°	1309.0	1309.6	1296.4	1277.9	1248.9	1215.8	1185.5	1172.9	1169.6	1168.3	1163.7
17.5°	1368.4	1375.0	1361.8	1338.0	1302.3	1266.0	1233.7	1221.1	1220.5	1219.1	1213.9
20°	1402.1	1403.4	1396.1	1379.0	1347.3	1312.3	1289.8	1283.9	1283.2	1283.9	1285.2
22.5°	1400.8	1402.7	1400.1	1393.5	1373.0	1353.9	1351.2	1354.5	1356.5	1354.5	1359.1
25°	1390.2	1392.8	1392.8	1396.1	1390.8	1397.4	1418.6	1427.8	1428.5	1429.8	1439.7
27.5°	1413.3	1415.9	1415.3	1421.2	1425.8	1449.0	1487.3	1503.8	1505.8	1510.4	1519.6
30°	1520.3	1520.9	1509.1	1508.4	1513.0	1531.5	1570.5	1589.6	1587.6	1596.9	1602.8
32.5°	1689.4	1694.6	1682.8	1670.2	1668.2	1670.9	1678.1	1691.3	1689.4	1694.0	1701.9
35°	1882.2	1882.9	1876.3	1883.5	1887.5	1869.6	1835.3	1832.0	1821.4	1823.4	1826.1
37.5°	2059.2	2063.8	2076.4	2122.6	2149.0	2105.4	2038.1	1995.8	1989.2	1985.9	1962.8
40°	2225.0	2248.1	2278.4	2338.5	2374.9	2390.7	2295.0	2209.8	2186.7	2177.4	2141.1
42.5°	2419.1	2431.0	2466.7	2535.4	2583.6	2655.5	2591.5	2497.7	2470.6	2431.0	2385.4
45°	2583.6	2591.5	2613.9	2672.1	2773.1	2893.3	2900.6	2835.2	2814.0	2774.4	2707.7
47.5°	2693.9	2693.2	2709.7	2766.5	2897.9	3081.5	3190.5	3187.8	3163.4	3149.5	3092.7
50°	2736.8	2736.1	2746.7	2810.1	2953.4	3193.8	3434.2	3516.7	3516.1	3521.4	3492.3
52.5°	2744.7	2744.0	2745.4	2796.2	2942.2	3232.8	3609.9	3804.7	3833.1	3868.7	3901.1
55°	2685.3	2691.9	2706.4	2759.9	2899.9	3216.9	3740.0	4074.8	4142.8	4215.5	4333.0
57.5°	2547.9	2560.4	2610.6	2706.4	2855.0	3177.9	3830.4	4409.0	4547.0	4722.7	5041.0
60°	2351.1	2362.3	2431.7	2558.5	2724.2	3008.2	3725.4	4549.0	4811.2	5116.3	5768.8
62.5°	2003.1	2034.8	2071.7	2161.6	2335.2	2563.8	3253.9	4312.5	4718.7	5166.5	6064.6
65°	1345.3	1332.1	1393.5	1507.7	1698.6	1876.3	2397.3	3557.0	4070.8	4687.0	5798.5
67.5°	832.8	834.8	876.4	988.0	1132.0	1270.0	1519.6	2267.2	2722.9	3308.7	4645.4
70°	688.2	696.1	729.8	833.4	956.3	1112.1	1128.0	1202.0	1406.0	1689.4	2869.5
72.5°	546.2	549.5	583.8	670.3	844.0	1058.0	1339.3	913.4	897.5	940.4	1455.6
75°	338.8	341.4	358.6	414.1	547.5	824.2	1474.7	1050.1	984.0	928.6	937.8
77.5°	175.0	180.3	189.5	214.6	287.3	460.3	1161.0	1331.4	1256.1	1180.8	1033.6
80°	99.1	99.1	107.6	113.6	136.0	187.6	590.4	1441.0	1574.4	1606.8	1443.0
82.5°	44.2	49.5	66.7	71.3	77.9	85.9	195.5	865.8	1201.3	1500.5	1854.5
85°	26.4	25.8	42.3	46.2	48.2	40.9	73.3	353.3	561.4	821.6	1229.0
87.5°	10.6	11.2	17.8	19.2	22.5	16.5	27.7	75.9	111.6	161.8	228.5
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):**

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	943.1	943.1	942.4	941.8	941.1	939.1	938.5	937.1	936.5	934.5	933.8
5°	980.7	978.7	978.1	976.8	976.1	973.5	973.5	970.8	968.8	966.2	965.5
7.5°	1025.6	1023.0	1021.0	1019.7	1019.0	1014.4	1014.4	1010.4	1009.8	1006.5	1005.2
10°	1071.2	1069.2	1066.6	1065.3	1064.6	1062.0	1059.3	1056.7	1054.7	1052.7	1050.1
12.5°	1116.8	1112.8	1111.5	1109.5	1108.2	1106.2	1105.5	1099.6	1099.6	1097.6	1095.0
15°	1161.0	1160.4	1155.7	1155.1	1153.8	1154.4	1150.5	1151.1	1149.1	1145.8	1144.5
17.5°	1215.2	1210.5	1212.5	1209.2	1209.9	1208.6	1207.2	1206.6	1207.9	1207.2	1208.6
20°	1282.5	1281.2	1283.2	1278.6	1283.2	1283.9	1282.5	1285.8	1284.5	1285.8	1281.9
22.5°	1362.4	1357.8	1357.8	1361.1	1363.1	1369.1	1365.7	1368.4	1371.0	1373.0	1370.4
25°	1443.0	1441.7	1444.3	1447.0	1450.9	1456.2	1454.9	1455.6	1460.8	1464.2	1464.8
27.5°	1524.9	1524.9	1532.8	1532.8	1538.1	1544.1	1546.0	1548.7	1552.6	1557.3	1557.3
30°	1609.4	1609.4	1616.7	1623.3	1626.0	1633.2	1637.2	1641.1	1648.4	1649.7	1655.7
32.5°	1705.9	1707.8	1715.1	1719.1	1725.0	1733.6	1734.9	1739.5	1748.1	1750.8	1755.4
35°	1831.3	1824.7	1831.3	1838.6	1841.9	1839.3	1853.8	1859.7	1865.7	1869.0	1874.9
37.5°	1960.8	1949.6	1950.2	1948.9	1941.0	1945.6	1945.6	1944.3	1948.2	1947.6	1950.2
40°	2124.6	2104.8	2098.8	2086.3	2069.1	2059.8	2049.9	2048.6	2038.7	2042.7	2035.4
42.5°	2349.1	2319.4	2303.5	2264.6	2243.4	2218.4	2193.9	2172.8	2161.6	2149.0	2139.8
45°	2657.5	2622.5	2584.2	2521.5	2485.2	2435.0	2402.6	2354.4	2322.0	2295.0	2275.8
47.5°	3044.5	2985.8	2954.7	2895.9	2832.5	2756.6	2687.2	2619.9	2565.1	2505.6	2458.7
50°	3494.3	3421.0	3396.5	3318.6	3282.9	3197.8	3123.8	3040.6	2954.7	2864.9	2779.0
52.5°	3892.5	3883.9	3893.8	3841.7	3840.3	3797.4	3715.5	3618.4	3538.5	3448.1	3335.1
55°	4370.0	4455.2	4473.7	4466.4	4505.4	4504.1	4496.1	4486.2	4422.8	4294.7	4255.7
57.5°	5212.7	5308.5	5449.8	5513.8	5655.2	5671.7	5802.4	5751.6	5848.7	5822.3	5840.1
60°	6070.6	6364.5	6632.6	6836.7	7034.8	7215.1	7435.7	7530.1	7600.8	7711.1	7827.3
62.5°	6454.3	6824.8	7144.4	7435.0	7681.3	7909.8	8099.4	8279.0	8420.4	8547.2	8644.9
65°	6299.1	6729.0	7040.7	7343.9	7573.7	7786.4	7974.6	8109.3	8250.0	8364.9	8468.6
67.5°	5244.4	5817.0	6223.8	6567.9	6856.5	7098.9	7294.3	7479.9	7579.6	7705.1	7761.3
70°	3473.8	4208.2	4783.4	5248.4	5706.0	5980.8	6212.6	6428.5	6542.1	6643.8	6706.6
72.5°	1908.0	2409.9	3024.1	3576.8	4016.7	4377.3	4647.4	4852.1	4969.0	5056.2	4965.7
75°	1081.1	1328.8	1629.3	1935.0	2268.5	2522.8	2594.1	2681.3	2701.8	2656.9	2540.6
77.5°	993.9	993.9	994.6	987.3	1001.9	1019.7	1009.1	991.3	910.7	892.9	867.8
80°	1292.4	1151.8	1001.2	822.2	670.3	565.3	533.0	535.6	561.4	611.5	667.0
82.5°	1832.0	1693.3	1476.0	1203.3	957.6	751.6	616.2	554.1	553.4	603.6	675.6
85°	1336.0	1347.3	1299.0	1149.1	916.7	721.8	583.2	447.8	404.2	404.2	398.9
87.5°	233.8	241.1	208.0	186.2	130.1	91.8	82.6	72.6	72.0	74.6	68.7
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°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	933.8	932.5	931.2	930.5	930.5	929.2	929.2	927.9	928.6	927.9	925.9
5°	964.2	963.6	961.6	958.3	957.6	955.0	955.6	953.0	953.0	951.7	948.4
7.5°	1002.5	1001.2	999.9	997.2	994.6	994.6	990.0	990.0	986.7	985.3	982.7
10°	1048.1	1044.1	1042.1	1039.5	1038.8	1038.2	1033.6	1033.6	1029.6	1028.9	1027.0
12.5°	1093.0	1090.4	1088.4	1087.1	1083.7	1083.1	1081.1	1079.1	1077.1	1075.8	1075.2
15°	1141.9	1140.5	1138.6	1138.6	1138.6	1135.3	1133.3	1132.0	1132.0	1130.0	1131.3
17.5°	1205.3	1207.2	1204.6	1203.3	1201.3	1204.6	1201.3	1201.3	1203.3	1203.3	1198.7
20°	1283.9	1286.5	1283.9	1284.5	1283.2	1283.9	1284.5	1285.8	1288.5	1283.9	1284.5
22.5°	1371.0	1371.7	1373.7	1371.7	1375.0	1373.0	1377.0	1380.3	1379.6	1378.3	1379.0
25°	1466.1	1464.2	1464.8	1470.8	1475.4	1474.1	1474.7	1480.0	1478.7	1477.4	1478.0
27.5°	1562.6	1561.2	1563.2	1568.5	1573.8	1573.1	1571.8	1575.8	1575.8	1572.5	1573.8
30°	1658.3	1660.3	1663.6	1663.6	1666.2	1668.9	1666.9	1671.5	1672.2	1669.5	1672.8
32.5°	1759.4	1763.3	1762.0	1771.2	1771.2	1771.9	1773.9	1773.2	1779.8	1774.5	1776.5
35°	1880.9	1882.2	1890.1	1896.7	1900.7	1904.0	1904.0	1906.0	1909.3	1906.6	1910.6
37.5°	1954.8	1957.5	1960.1	1964.1	1964.1	1964.1	1967.4	1968.1	1970.0	1969.4	1970.7
40°	2036.1	2036.7	2037.4	2038.1	2040.7	2042.0	2038.7	2043.3	2040.0	2041.4	2043.3
42.5°	2134.5	2125.2	2126.6	2124.6	2129.2	2123.3	2124.6	2129.9	2127.2	2131.2	2131.2
45°	2248.7	2238.2	2228.9	2223.6	2223.6	2215.7	2217.0	2219.0	2222.3	2227.6	2236.8
47.5°	2417.8	2381.5	2363.6	2345.2	2335.9	2326.0	2329.3	2330.0	2331.3	2339.9	2363.0
50°	2694.5	2633.8	2586.9	2530.7	2509.6	2492.4	2482.5	2483.2	2483.2	2501.0	2524.1
52.5°	3229.5	3116.5	3004.9	2907.2	2823.3	2783.0	2736.1	2724.2	2724.9	2740.1	2755.9
55°	4153.4	3998.2	3880.0	3662.7	3596.6	3411.1	3313.3	3257.2	3213.6	3234.7	3257.9
57.5°	5811.0	5667.7	5573.9	5314.4	5078.0	5010.6	4850.1	4720.0	4666.5	4604.4	4608.4
60°	7844.5	7770.5	7746.7	7594.8	7509.6	7244.8	7223.7	7059.2	6904.0	6770.0	6824.8
62.5°	8720.2	8754.5	8782.3	8835.8	8856.2	8831.1	8724.8	8652.2	8524.7	8349.0	8241.4
65°	8498.9	8577.5	8695.7	8807.4	8940.8	9051.7	9106.5	9085.4	8970.5	8789.5	8563.7
67.5°	7801.5	7881.5	7983.2	8124.5	8328.6	8544.5	8695.1	8790.8	8699.7	8536.6	8306.8
70°	6703.3	6781.2	6784.5	6982.0	7201.9	7474.0	7740.8	7841.2	7737.5	7628.5	7436.3
72.5°	5020.5	4973.6	5017.2	5053.5	5179.0	5350.7	5609.6	5598.4	5439.9	5355.3	5060.1
75°	2359.7	2328.0	2281.8	2251.4	2222.3	2161.6	2190.6	2066.5	2023.5	2040.7	1785.8
77.5°	848.6	805.1	735.0	667.0	581.2	481.4	406.2	356.6	332.2	332.9	317.7
80°	711.9	733.1	723.2	655.8	559.4	455.0	340.8	258.2	220.6	204.7	194.8
82.5°	772.0	878.4	931.2	889.6	751.6	578.5	372.5	225.2	165.1	141.3	135.4
85°	428.0	428.6	415.4	396.9	352.0	241.7	161.1	107.0	85.9	76.6	74.0
87.5°	72.6	69.3	69.3	64.7	56.8	55.5	49.5	46.9	41.6	38.3	37.0
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):**

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	923.9	922.6	921.9	921.3	921.3	920.6	920.6	919.3	918.0	917.3	916.7
5°	945.1	943.7	942.4	941.1	941.1	939.8	938.5	937.1	935.2	931.9	931.2
7.5°	980.7	978.1	978.1	973.5	973.5	970.8	968.8	968.8	966.2	960.9	960.3
10°	1025.0	1020.3	1018.4	1015.7	1014.4	1011.8	1011.8	1009.1	1007.8	1005.8	999.2
12.5°	1072.5	1069.2	1067.9	1064.6	1062.6	1062.6	1061.3	1056.7	1060.0	1055.4	1052.0
15°	1130.0	1129.3	1123.4	1125.4	1124.7	1124.0	1124.7	1120.7	1120.1	1120.1	1116.1
17.5°	1202.0	1196.7	1197.3	1197.3	1198.7	1198.7	1193.4	1196.0	1196.7	1195.4	1194.0
20°	1286.5	1284.5	1286.5	1282.5	1286.5	1286.5	1289.1	1288.5	1289.1	1290.5	1290.5
22.5°	1377.0	1382.3	1382.9	1384.2	1379.6	1387.5	1387.5	1388.9	1392.2	1392.2	1393.5
25°	1486.6	1484.0	1480.7	1485.3	1486.6	1491.9	1493.2	1493.2	1498.5	1498.5	1500.5
27.5°	1577.7	1580.4	1579.7	1582.4	1581.0	1588.3	1591.0	1598.9	1596.9	1600.9	1606.1
30°	1671.5	1676.8	1674.2	1674.8	1678.1	1682.8	1688.0	1696.0	1697.3	1707.8	1710.5
32.5°	1779.8	1783.8	1787.1	1788.4	1788.4	1796.3	1804.9	1807.6	1821.4	1829.4	1838.6
35°	1917.2	1917.9	1919.8	1921.8	1920.5	1929.1	1937.7	1940.3	1954.8	1956.8	1976.0
37.5°	1975.3	1976.6	1984.6	1988.5	1991.2	2001.7	2017.6	2029.5	2045.3	2060.5	2082.3
40°	2048.0	2055.9	2063.2	2069.1	2079.0	2093.5	2118.0	2129.9	2153.6	2182.0	2203.2
42.5°	2139.8	2154.3	2159.6	2170.8	2195.2	2213.1	2237.5	2263.3	2295.0	2329.3	2354.4
45°	2248.7	2262.6	2282.4	2295.0	2323.4	2351.8	2390.7	2413.2	2445.5	2485.2	2512.9
47.5°	2380.8	2400.0	2419.8	2445.5	2479.2	2508.9	2547.9	2577.0	2609.3	2641.7	2672.1
50°	2545.3	2573.7	2600.1	2627.2	2672.1	2697.2	2735.5	2765.8	2796.2	2828.6	2856.3
52.5°	2766.5	2809.4	2843.1	2861.6	2922.4	2947.5	2994.3	3015.5	3040.6	3069.6	3105.3
55°	3249.3	3316.0	3372.8	3405.8	3498.2	3531.3	3592.0	3623.1	3605.9	3642.9	3706.9
57.5°	4645.4	4727.3	4795.3	4840.2	4934.7	4980.9	4984.2	5100.4	5031.7	5099.8	5109.7
60°	6678.8	6743.5	6727.0	6727.7	6698.0	6655.1	6737.6	6612.1	6665.0	6668.3	6550.0
62.5°	8042.6	7943.5	7897.3	7820.7	7731.5	7662.9	7616.0	7514.9	7434.3	7370.3	7245.5
65°	8363.6	8191.8	8040.0	7896.6	7765.2	7674.1	7575.0	7466.7	7340.6	7234.2	7112.7
67.5°	8053.2	7812.8	7587.6	7398.7	7219.1	7098.9	6955.5	6852.5	6694.0	6554.0	6461.5
70°	7153.0	6820.2	6557.3	6436.5	6258.1	5999.9	5863.2	5734.4	5637.3	5510.5	5454.4
72.5°	5017.9	4607.1	4404.3	4412.3	4231.3	4046.4	4051.0	3972.4	3846.9	3843.0	3823.8
75°	1843.9	1677.5	1560.6	1565.9	1498.5	1426.5	1446.3	1467.5	1426.5	1509.7	1380.9
77.5°	293.2	285.3	282.7	276.7	262.2	272.8	265.5	279.4	281.3	296.5	297.8
80°	186.9	179.0	177.0	173.7	173.0	173.0	171.7	171.7	171.7	172.4	171.0
82.5°	124.8	120.2	119.5	117.6	120.9	121.5	122.2	127.5	132.1	133.4	138.7
85°	68.0	64.7	64.7	63.4	66.0	66.7	72.6	79.9	89.2	93.1	101.7
87.5°	34.3	36.3	35.7	37.0	39.0	43.6	48.2	52.8	58.1	65.4	71.3
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°	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3	917.3
2.5°	915.3	914.7	914.7	913.4	913.4	912.7	911.4	910.1	904.1	896.9	892.2
5°	929.2	927.9	927.2	925.9	923.9	923.9	921.9	919.3	908.1	896.2	888.9
7.5°	957.6	956.9	955.0	952.3	949.7	947.0	945.7	944.4	927.2	916.0	910.7
10°	998.6	997.9	993.3	992.6	988.6	989.3	986.0	983.4	972.1	959.6	952.3
12.5°	1050.7	1053.4	1050.7	1044.8	1046.1	1044.1	1040.8	1037.5	1027.6	1017.7	1006.5
15°	1115.4	1112.1	1109.5	1114.8	1110.2	1109.5	1111.5	1112.1	1100.3	1089.7	1073.8
17.5°	1196.0	1196.0	1194.7	1196.0	1193.4	1195.4	1194.0	1195.4	1190.1	1175.5	1152.4
20°	1287.8	1293.1	1293.1	1291.1	1290.5	1294.4	1296.4	1289.1	1290.5	1277.9	1236.3
22.5°	1394.8	1398.8	1400.1	1398.1	1398.8	1404.1	1407.4	1402.1	1414.0	1393.5	1329.4
25°	1505.1	1511.0	1508.4	1509.1	1514.3	1520.3	1526.2	1520.9	1544.1	1512.4	1428.5
27.5°	1614.1	1619.3	1618.0	1622.0	1630.6	1638.5	1645.1	1643.1	1681.4	1639.8	1532.8
30°	1717.1	1729.6	1732.3	1736.9	1747.5	1760.7	1771.2	1770.6	1820.1	1764.0	1618.0
32.5°	1843.9	1857.8	1863.0	1873.0	1893.4	1902.7	1915.9	1917.2	1966.7	1873.0	1690.0
35°	1990.5	2004.4	2015.6	2022.9	2046.0	2057.2	2070.4	2076.4	2109.4	1974.7	1740.2
37.5°	2104.1	2116.0	2137.8	2153.0	2173.4	2195.9	2211.1	2218.4	2236.8	2061.8	1763.3
40°	2228.3	2254.0	2275.1	2298.3	2320.7	2338.5	2352.4	2363.6	2356.4	2134.5	1753.4
42.5°	2385.4	2412.5	2440.9	2460.7	2472.6	2496.4	2503.0	2510.9	2451.5	2167.5	1708.5
45°	2549.2	2571.0	2594.8	2609.3	2625.2	2637.1	2639.0	2639.7	2522.1	2148.3	1627.3
47.5°	2707.1	2725.6	2742.1	2750.0	2757.9	2758.6	2755.3	2750.0	2559.8	2083.6	1529.5
50°	2880.1	2891.3	2898.6	2899.2	2906.5	2892.6	2883.4	2859.0	2555.8	1984.6	1426.5
52.5°	3129.1	3126.4	3117.2	3116.5	3093.4	3067.0	3049.8	3014.8	2528.7	1877.6	1307.6
55°	3701.0	3675.9	3705.0	3631.0	3569.6	3528.6	3431.5	3360.9	2555.8	1777.9	1170.9
57.5°	5075.3	4989.5	4998.7	4879.2	4748.4	4503.4	4358.8	4163.3	2768.5	1722.4	998.6
60°	6524.9	6383.6	6250.2	6038.2	5760.2	5449.1	5169.1	4863.3	2979.8	1654.4	815.0
62.5°	7123.3	6941.0	6709.2	6410.0	6052.7	5667.1	5280.1	4931.4	2863.6	1449.6	587.1
65°	6930.4	6712.5	6465.5	6075.2	5669.7	5221.3	4797.3	4428.8	2384.8	1060.0	354.6
67.5°	6245.6	6058.0	5753.6	5385.1	4883.1	4433.4	4014.0	3673.3	1758.0	655.1	203.4
70°	5258.9	4999.4	4739.2	4385.2	3856.2	3432.2	3041.9	2740.7	1115.4	323.6	149.9
72.5°	3629.7	3424.3	3216.2	2899.2	2504.3	2212.4	1876.9	1629.3	583.8	174.4	138.0
75°	1414.0	1391.5	1367.7	1223.8	1089.7	873.1	766.7	691.5	243.0	151.2	136.0
77.5°	310.4	328.9	339.5	321.6	306.4	273.4	261.5	233.8	162.5	155.2	134.7
80°	171.0	171.0	171.0	173.0	169.7	169.7	167.7	164.4	151.9	155.2	132.1
82.5°	140.0	142.0	144.6	145.3	144.6	145.3	144.0	143.3	148.6	155.9	125.5
85°	107.0	113.6	117.6	122.8	128.1	131.4	132.7	133.4	136.7	147.9	109.6
87.5°	75.9	81.2	89.8	91.1	97.1	104.3	107.0	111.0	109.0	112.3	51.5
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):**

	145°	155°	165°	175°	180°
0°	917.3	917.3	917.3	917.3	917.3
2.5°	888.3	883.0	881.0	880.3	879.0
5°	883.0	879.7	877.0	875.1	876.4
7.5°	906.8	904.8	900.2	898.8	900.8
10°	949.0	944.4	937.8	938.5	937.8
12.5°	1001.9	989.3	978.7	974.1	970.8
15°	1056.0	1031.6	1009.8	999.9	995.9
17.5°	1116.1	1074.5	1040.8	1023.0	1019.7
20°	1179.5	1122.1	1078.5	1057.3	1054.0
22.5°	1252.8	1173.6	1118.1	1089.0	1084.4
25°	1324.1	1219.8	1145.8	1110.2	1104.2
27.5°	1388.9	1254.8	1162.3	1120.1	1114.1
30°	1443.0	1282.5	1176.2	1128.0	1121.4
32.5°	1478.7	1297.7	1180.8	1128.7	1120.7
35°	1489.9	1287.8	1161.0	1100.9	1094.3
37.5°	1466.1	1247.5	1108.2	1040.2	1034.9
40°	1412.0	1172.9	1025.0	954.3	947.7
42.5°	1327.4	1078.5	928.6	853.9	848.0
45°	1233.7	977.4	826.2	751.6	745.6
47.5°	1131.3	870.4	718.5	649.9	640.6
50°	1019.0	754.2	608.9	541.5	533.0
52.5°	887.6	627.4	492.7	431.9	426.6
55°	733.7	499.9	392.3	348.0	342.8
57.5°	570.6	380.4	311.7	289.9	281.3
60°	414.1	289.3	248.3	237.8	233.1
62.5°	281.3	216.0	200.1	196.8	193.5
65°	190.9	169.1	164.4	165.1	163.1
67.5°	150.6	142.0	139.3	140.7	140.0
70°	132.1	125.5	124.8	126.1	125.5
72.5°	124.8	116.2	117.6	119.5	118.9
75°	121.5	112.3	114.9	116.2	112.9
77.5°	118.2	106.3	114.3	116.9	110.3
80°	113.6	101.0	119.5	118.2	105.7
82.5°	103.7	89.2	116.9	107.0	95.1
85°	84.5	66.7	131.4	94.4	69.3
87.5°	54.2	40.3	91.1	72.0	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)