

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: P146346

Luminaire Tested: **LDRL-T2-F03-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146346
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7620 lumens
Efficiency: N/A
Efficacy: 97.3 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

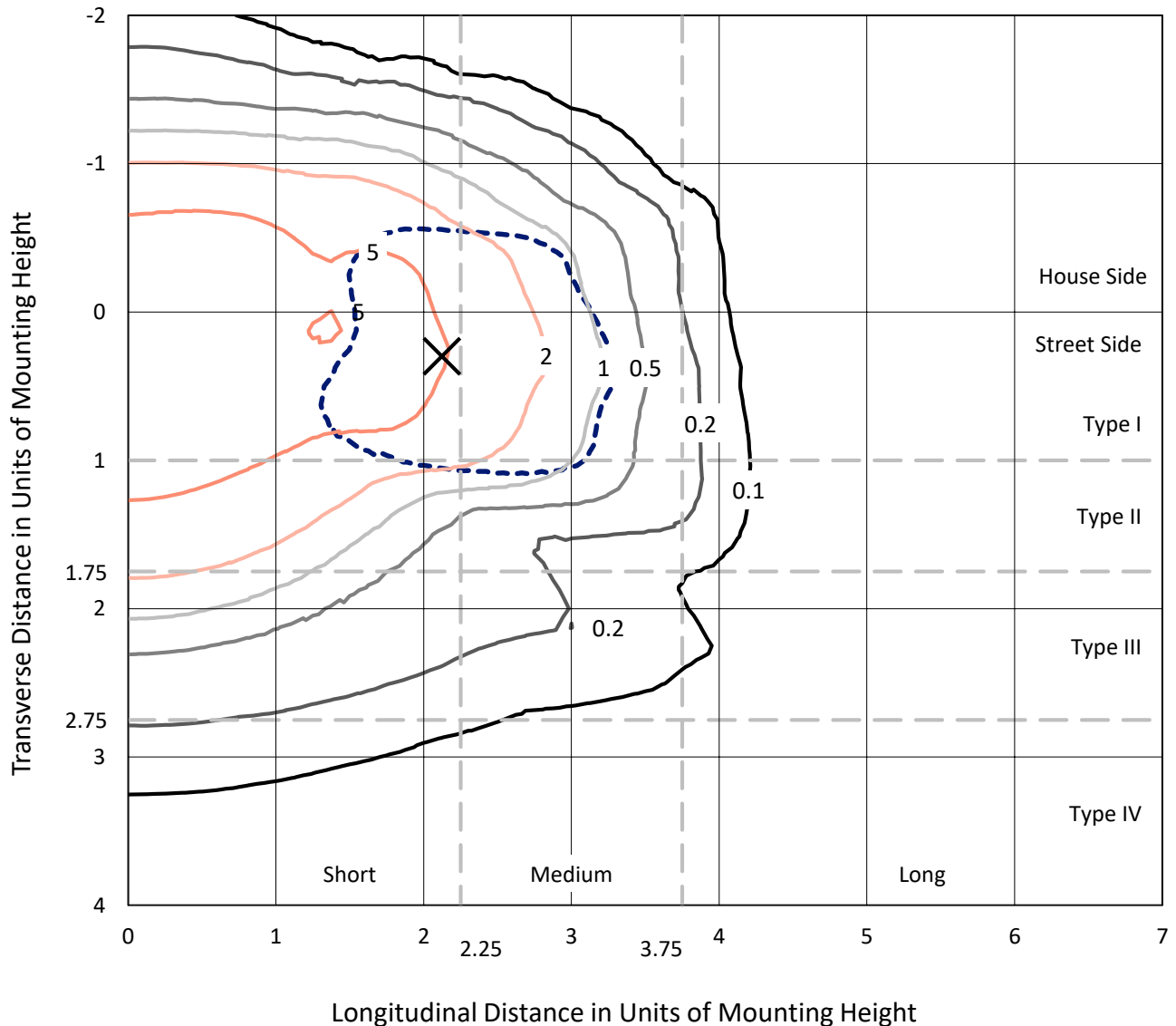
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

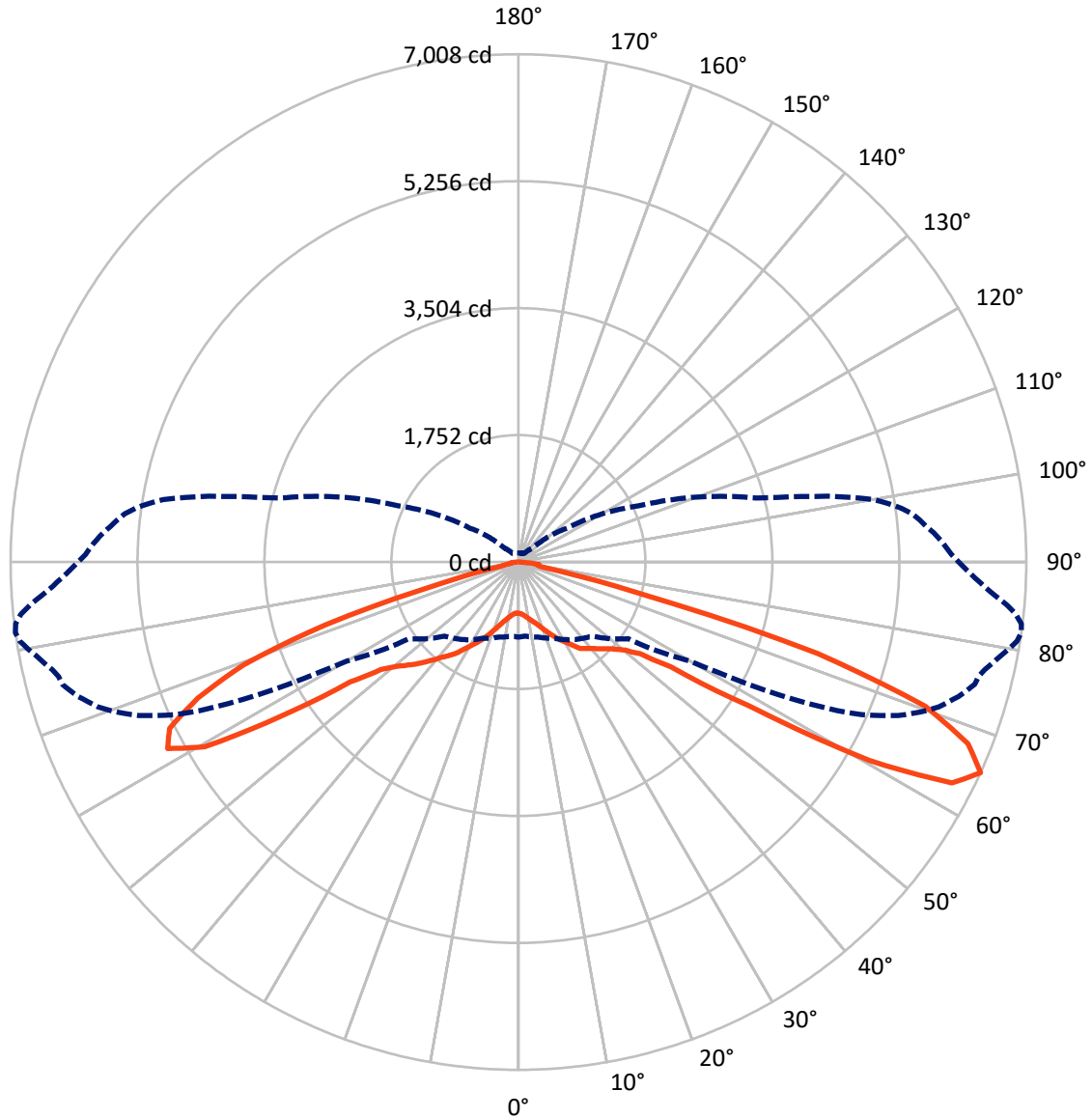
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 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	2805.0	0.0	2805.0
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	4815.1	0.0	4815.1
	% Fixture	63.2	0.0	63.2
Total	Lumens	7620.0	0.0	7620.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	0.9
10°-20°	252.3	3.3
20°-30°	500.5	6.6
30°-40°	854.1	11.2
40°-50°	1280.7	16.8
50°-60°	1782.6	23.4
60°-70°	2047.9	26.9
70°-80°	706.7	9.3
80°-90°	123.6	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°	7620.0	100.0
0°-180°	7620.0	100.0



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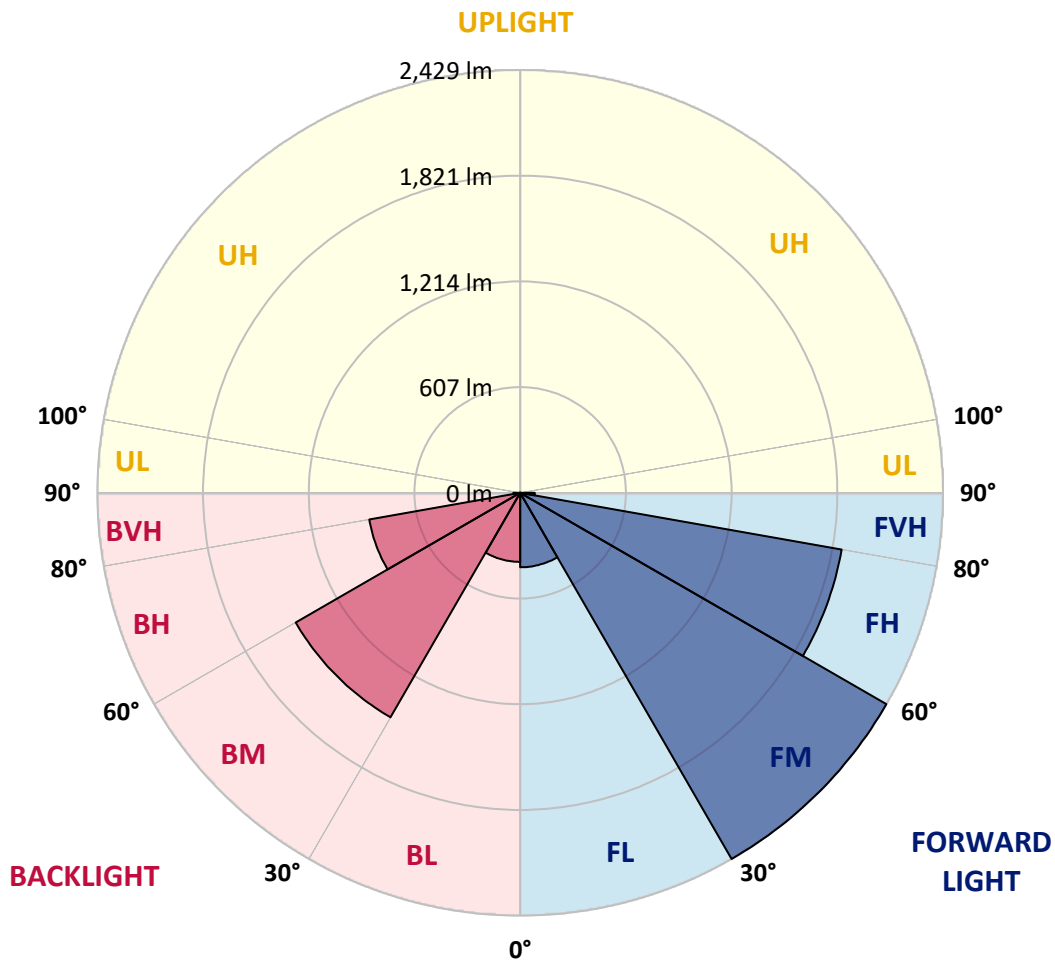
CATALOG NUMBER: LDRL-T2-F03-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	427.7	5.6			
FM	(30°-60°)	2428.6	31.9			
FH	(60°-80°)	1874.8	24.6			G2/5000
FVH	(80°-90°)	83.9	1.1			G1/100
BL	(0°-30°)	396.8	5.2	B1/500		
BM	(30°-60°)	1488.7	19.5	B2/2500		
BH	(60°-80°)	879.9	11.5	B2/1000		G2/1000
BVH	(80°-90°)	39.7	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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	745.1	744.6	744.1	742.0	741.0	737.0	732.9	730.3	728.3	729.3	726.3
5°	788.3	788.3	786.3	783.7	780.7	775.1	764.9	759.8	758.8	758.8	755.3
7.5°	832.5	835.6	830.0	827.9	822.8	814.2	802.5	795.9	793.9	793.9	790.8
10°	888.4	886.9	880.8	876.7	866.6	854.9	839.1	831.5	828.4	831.0	825.9
12.5°	947.4	946.9	937.7	930.1	915.9	897.1	876.2	866.1	864.0	864.0	861.0
15°	1007.3	1007.9	997.7	983.5	961.1	935.7	912.3	902.6	900.1	899.1	895.5
17.5°	1053.1	1058.2	1048.0	1029.7	1002.3	974.3	949.4	939.7	939.2	938.2	934.2
20°	1079.0	1080.0	1074.4	1061.2	1036.8	1009.9	992.6	988.0	987.5	988.0	989.0
22.5°	1078.0	1079.5	1077.5	1072.4	1056.6	1041.9	1039.9	1042.4	1043.9	1042.4	1046.0
25°	1069.9	1071.9	1071.9	1074.4	1070.4	1075.4	1091.7	1098.8	1099.3	1100.4	1108.0
27.5°	1087.6	1089.7	1089.2	1093.7	1097.3	1115.1	1144.6	1157.3	1158.8	1162.4	1169.5
30°	1170.0	1170.5	1161.3	1160.8	1164.4	1178.6	1208.6	1223.3	1221.8	1228.9	1233.5
32.5°	1300.1	1304.2	1295.0	1285.4	1283.8	1285.9	1291.5	1301.6	1300.1	1303.6	1309.7
35°	1448.5	1449.0	1443.9	1449.5	1452.6	1438.8	1412.4	1409.9	1401.7	1403.3	1405.3
37.5°	1584.7	1588.3	1597.9	1633.5	1653.8	1620.3	1568.4	1535.9	1530.8	1528.3	1510.5
40°	1712.3	1730.1	1753.4	1799.7	1827.7	1839.8	1766.2	1700.6	1682.8	1675.7	1647.7
42.5°	1861.7	1870.9	1898.3	1951.2	1988.3	2043.7	1994.4	1922.2	1901.3	1870.9	1835.8
45°	1988.3	1994.4	2011.6	2056.4	2134.1	2226.6	2232.2	2181.9	2165.6	2135.1	2083.8
47.5°	2073.1	2072.6	2085.3	2129.0	2230.2	2371.5	2455.3	2453.3	2434.5	2423.8	2380.1
50°	2106.2	2105.7	2113.8	2162.6	2272.9	2457.9	2642.9	2706.4	2705.9	2710.0	2687.6
52.5°	2112.3	2111.8	2112.8	2151.9	2264.2	2487.9	2778.1	2928.0	2949.9	2977.3	3002.2
55°	2066.5	2071.6	2082.8	2124.0	2231.7	2475.7	2878.2	3135.9	3188.2	3244.1	3334.6
57.5°	1960.8	1970.5	2009.1	2082.8	2197.1	2445.7	2947.8	3393.0	3499.3	3634.5	3879.4
60°	1809.4	1818.0	1871.4	1968.9	2096.5	2315.1	2867.0	3500.8	3702.6	3937.4	4439.5
62.5°	1541.5	1565.9	1594.4	1663.5	1797.2	1973.0	2504.1	3318.8	3631.4	3976.0	4667.2
65°	1035.3	1025.1	1072.4	1160.3	1307.2	1443.9	1844.9	2737.4	3132.8	3607.0	4462.4
67.5°	640.9	642.4	674.4	760.3	871.1	977.4	1169.5	1744.8	2095.5	2546.3	3575.0
70°	529.6	535.7	561.6	641.4	735.9	855.9	868.1	925.0	1082.1	1300.1	2208.3
72.5°	420.3	422.9	449.3	515.9	649.5	814.2	1030.7	702.9	690.7	723.7	1120.2
75°	260.7	262.8	276.0	318.7	421.3	634.3	1134.9	808.1	757.3	714.6	721.7
77.5°	134.7	138.8	145.9	165.2	221.1	354.2	893.5	1024.6	966.7	908.7	795.4
80°	76.2	76.2	82.8	87.4	104.7	144.3	454.4	1109.0	1211.7	1236.6	1110.5
82.5°	34.1	38.1	51.3	54.9	60.0	66.1	150.4	666.3	924.5	1154.7	1427.2
85°	20.3	19.8	32.5	35.6	37.1	31.5	56.4	271.9	432.0	632.3	945.8
87.5°	8.1	8.6	13.7	14.7	17.3	12.7	21.3	58.4	85.9	124.5	175.9
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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	725.8	725.8	725.3	724.8	724.2	722.7	722.2	721.2	720.7	719.2	718.7
5°	754.7	753.2	752.7	751.7	751.2	749.2	749.2	747.1	745.6	743.6	743.1
7.5°	789.3	787.3	785.7	784.7	784.2	780.7	780.7	777.6	777.1	774.6	773.5
10°	824.4	822.8	820.8	819.8	819.3	817.3	815.2	813.2	811.7	810.1	808.1
12.5°	859.4	856.4	855.4	853.9	852.8	851.3	850.8	846.2	846.2	844.7	842.7
15°	893.5	893.0	889.4	888.9	887.9	888.4	885.4	885.9	884.3	881.8	880.8
17.5°	935.2	931.6	933.1	930.6	931.1	930.1	929.1	928.6	929.6	929.1	930.1
20°	987.0	986.0	987.5	984.0	987.5	988.0	987.0	989.6	988.5	989.6	986.5
22.5°	1048.5	1045.0	1045.0	1047.5	1049.0	1053.6	1051.1	1053.1	1055.1	1056.6	1054.6
25°	1110.5	1109.5	1111.5	1113.6	1116.6	1120.7	1119.7	1120.2	1124.2	1126.8	1127.3
27.5°	1173.5	1173.5	1179.6	1179.6	1183.7	1188.3	1189.8	1191.8	1194.9	1198.4	1198.4
30°	1238.6	1238.6	1244.2	1249.3	1251.3	1256.9	1259.9	1263.0	1268.6	1269.6	1274.2
32.5°	1312.8	1314.3	1319.9	1323.0	1327.5	1334.1	1335.2	1338.7	1345.3	1347.4	1350.9
35°	1409.4	1404.3	1409.4	1415.0	1417.5	1415.5	1426.6	1431.2	1435.8	1438.3	1442.9
37.5°	1509.0	1500.3	1500.8	1499.8	1493.7	1497.3	1497.3	1496.3	1499.3	1498.8	1500.8
40°	1635.0	1619.8	1615.2	1605.5	1592.3	1585.2	1577.6	1576.6	1569.0	1572.0	1566.4
42.5°	1807.8	1785.0	1772.8	1742.8	1726.5	1707.2	1688.4	1672.1	1663.5	1653.8	1646.7
45°	2045.2	2018.2	1988.8	1940.5	1912.5	1873.9	1849.0	1811.9	1787.0	1766.2	1751.4
47.5°	2343.0	2297.8	2273.9	2228.7	2179.9	2121.4	2068.1	2016.2	1974.0	1928.3	1892.2
50°	2689.1	2632.7	2613.9	2553.9	2526.5	2460.9	2404.0	2340.0	2273.9	2204.8	2138.7
52.5°	2995.6	2989.0	2996.6	2956.5	2955.4	2922.4	2859.4	2784.7	2723.2	2653.5	2566.6
55°	3363.1	3428.6	3442.9	3437.3	3467.2	3466.2	3460.1	3452.5	3403.7	3305.1	3275.1
57.5°	4011.6	4085.3	4194.0	4243.3	4352.1	4364.8	4465.4	4426.3	4501.0	4480.7	4494.4
60°	4671.8	4898.0	5104.3	5261.4	5413.8	5552.6	5722.3	5795.0	5849.4	5934.3	6023.7
62.5°	4967.1	5252.2	5498.2	5721.8	5911.4	6087.3	6233.1	6371.4	6480.1	6577.7	6652.9
65°	4847.6	5178.5	5418.4	5651.7	5828.6	5992.2	6137.1	6240.7	6349.0	6437.4	6517.2
67.5°	4036.0	4476.6	4789.7	5054.5	5276.6	5463.1	5613.6	5756.4	5833.1	5929.7	5972.9
70°	2673.4	3238.5	3681.2	4039.0	4391.2	4602.7	4781.1	4947.3	5034.7	5112.9	5161.2
72.5°	1468.3	1854.6	2327.3	2752.7	3091.1	3368.7	3576.5	3734.1	3824.0	3891.1	3821.5
75°	832.0	1022.6	1253.8	1489.2	1745.8	1941.5	1996.4	2063.5	2079.2	2044.7	1955.2
77.5°	764.9	764.9	765.4	759.8	771.0	784.7	776.6	762.9	700.9	687.1	667.8
80°	994.6	886.4	770.5	632.8	515.9	435.1	410.2	412.2	432.0	470.6	513.3
82.5°	1409.9	1303.1	1135.9	926.0	737.0	578.4	474.2	426.4	425.9	464.5	519.9
85°	1028.2	1036.8	999.7	884.3	705.4	555.5	448.8	344.6	311.0	311.0	307.0
87.5°	179.9	185.5	160.1	143.3	100.1	70.6	63.5	55.9	55.4	57.4	52.9
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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	718.7	717.6	716.6	716.1	716.1	715.1	715.1	714.1	714.6	714.1	712.6
5°	742.0	741.5	740.0	737.5	737.0	734.9	735.4	733.4	733.4	732.4	729.8
7.5°	771.5	770.5	769.5	767.5	765.4	765.4	761.9	761.9	759.3	758.3	756.3
10°	806.6	803.5	802.0	800.0	799.5	799.0	795.4	795.4	792.4	791.8	790.3
12.5°	841.1	839.1	837.6	836.6	834.0	833.5	832.0	830.5	828.9	827.9	827.4
15°	878.8	877.7	876.2	876.2	876.2	873.7	872.1	871.1	871.1	869.6	870.6
17.5°	927.5	929.1	927.0	926.0	924.5	927.0	924.5	924.5	926.0	926.0	922.5
20°	988.0	990.1	988.0	988.5	987.5	988.0	988.5	989.6	991.6	988.0	988.5
22.5°	1055.1	1055.6	1057.2	1055.6	1058.2	1056.6	1059.7	1062.2	1061.7	1060.7	1061.2
25°	1128.3	1126.8	1127.3	1131.9	1135.4	1134.4	1134.9	1139.0	1138.0	1136.9	1137.5
27.5°	1202.5	1201.5	1203.0	1207.1	1211.1	1210.6	1209.6	1212.7	1212.7	1210.1	1211.1
30°	1276.2	1277.7	1280.3	1280.3	1282.3	1284.3	1282.8	1286.4	1286.9	1284.8	1287.4
32.5°	1354.0	1357.0	1356.0	1363.1	1363.1	1363.6	1365.1	1364.6	1369.7	1365.7	1367.2
35°	1447.5	1448.5	1454.6	1459.7	1462.7	1465.3	1465.3	1466.8	1469.3	1467.3	1470.4
37.5°	1504.4	1506.4	1508.5	1511.5	1511.5	1511.5	1514.1	1514.6	1516.1	1515.6	1516.6
40°	1566.9	1567.4	1567.9	1568.4	1570.5	1571.5	1569.0	1572.5	1570.0	1571.0	1572.5
42.5°	1642.6	1635.5	1636.6	1635.0	1638.6	1634.0	1635.0	1639.1	1637.1	1640.1	1640.1
45°	1730.6	1722.4	1715.3	1711.3	1711.3	1705.2	1706.2	1707.7	1710.2	1714.3	1721.4
47.5°	1860.7	1832.7	1819.0	1804.8	1797.7	1790.0	1792.6	1793.1	1794.1	1800.7	1818.5
50°	2073.6	2026.9	1990.8	1947.6	1931.3	1918.1	1910.5	1911.0	1911.0	1924.7	1942.5
52.5°	2485.3	2398.4	2312.5	2237.3	2172.7	2141.7	2105.7	2096.5	2097.0	2108.7	2120.9
55°	3196.4	3076.9	2985.9	2818.7	2767.9	2625.1	2549.9	2506.7	2473.1	2489.4	2507.2
57.5°	4472.1	4361.8	4289.6	4089.9	3907.9	3856.1	3732.6	3632.4	3591.3	3543.5	3546.5
60°	6036.9	5980.0	5961.7	5844.8	5779.3	5575.5	5559.2	5432.6	5313.2	5210.0	5252.2
62.5°	6710.9	6737.3	6758.6	6799.8	6815.6	6796.3	6714.4	6658.5	6560.4	6425.2	6342.4
65°	6540.6	6601.1	6692.1	6778.0	6880.6	6966.0	7008.2	6991.9	6903.5	6764.2	6590.4
67.5°	6003.9	6065.4	6143.7	6252.4	6409.5	6575.7	6691.6	6765.3	6695.1	6569.6	6392.7
70°	5158.7	5218.7	5221.2	5373.2	5542.4	5751.8	5957.1	6034.4	5954.6	5870.7	5722.8
72.5°	3863.7	3827.6	3861.1	3889.1	3985.7	4117.8	4317.0	4308.4	4186.4	4121.4	3894.2
75°	1816.0	1791.6	1756.0	1732.6	1710.2	1663.5	1685.8	1590.3	1557.3	1570.5	1374.3
77.5°	653.1	619.6	565.7	513.3	447.3	370.5	312.6	274.5	255.6	256.2	244.5
80°	547.9	564.2	556.5	504.7	430.5	350.2	262.3	198.7	169.8	157.6	149.9
82.5°	594.1	676.0	716.6	684.6	578.4	445.2	286.7	173.3	127.1	108.8	104.2
85°	329.3	329.9	319.7	305.5	270.9	186.0	124.0	82.3	66.1	59.0	56.9
87.5°	55.9	53.4	53.4	49.8	43.7	42.7	38.1	36.1	32.0	29.5	28.5
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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	711.0	710.0	709.5	709.0	709.0	708.5	708.5	707.5	706.5	706.0	705.4
5°	727.3	726.3	725.3	724.2	724.2	723.2	722.2	721.2	719.7	717.1	716.6
7.5°	754.7	752.7	752.7	749.2	749.2	747.1	745.6	745.6	743.6	739.5	739.0
10°	788.8	785.2	783.7	781.7	780.7	778.6	778.6	776.6	775.6	774.1	769.0
12.5°	825.4	822.8	821.8	819.3	817.8	817.8	816.8	813.2	815.7	812.2	809.6
15°	869.6	869.1	864.5	866.1	865.5	865.0	865.5	862.5	862.0	862.0	858.9
17.5°	925.0	920.9	921.4	921.4	922.5	922.5	918.4	920.4	920.9	919.9	918.9
20°	990.1	988.5	990.1	987.0	990.1	990.1	992.1	991.6	992.1	993.1	993.1
22.5°	1059.7	1063.8	1064.3	1065.3	1061.7	1067.8	1067.8	1068.8	1071.4	1071.4	1072.4
25°	1144.1	1142.0	1139.5	1143.0	1144.1	1148.1	1149.1	1149.1	1153.2	1153.2	1154.7
27.5°	1214.2	1216.2	1215.7	1217.8	1216.7	1222.3	1224.4	1230.5	1228.9	1232.0	1236.1
30°	1286.4	1290.4	1288.4	1288.9	1291.5	1295.0	1299.1	1305.2	1306.2	1314.3	1316.4
32.5°	1369.7	1372.8	1375.3	1376.3	1376.3	1382.4	1389.0	1391.1	1401.7	1407.8	1415.0
35°	1475.4	1475.9	1477.5	1479.0	1478.0	1484.6	1491.2	1493.2	1504.4	1505.9	1520.7
37.5°	1520.2	1521.2	1527.3	1530.3	1532.4	1540.5	1552.7	1561.8	1574.0	1585.7	1602.5
40°	1576.1	1582.2	1587.8	1592.3	1600.0	1611.1	1629.9	1639.1	1657.4	1679.2	1695.5
42.5°	1646.7	1657.9	1662.0	1670.6	1689.4	1703.1	1721.9	1741.8	1766.2	1792.6	1811.9
45°	1730.6	1741.2	1756.5	1766.2	1788.0	1809.9	1839.8	1857.1	1882.0	1912.5	1933.9
47.5°	1832.2	1847.0	1862.2	1882.0	1908.0	1930.8	1960.8	1983.2	2008.1	2033.0	2056.4
50°	1958.8	1980.6	2001.0	2021.8	2056.4	2075.7	2105.2	2128.5	2151.9	2176.8	2198.2
52.5°	2129.0	2162.1	2188.0	2202.2	2249.0	2268.3	2304.4	2320.6	2340.0	2362.3	2389.8
55°	2500.6	2551.9	2595.6	2621.0	2692.2	2717.6	2764.3	2788.2	2775.0	2803.5	2852.8
57.5°	3575.0	3638.0	3690.4	3724.9	3797.6	3833.2	3835.7	3925.2	3872.3	3924.7	3932.3
60°	5139.9	5189.7	5177.0	5177.5	5154.6	5121.6	5185.1	5088.6	5129.2	5131.8	5040.8
62.5°	6189.4	6113.2	6077.6	6018.6	5950.0	5897.2	5861.1	5783.3	5721.3	5672.0	5576.0
65°	6436.4	6304.3	6187.4	6077.1	5975.9	5905.8	5829.6	5746.2	5649.1	5567.3	5473.8
67.5°	6197.5	6012.5	5839.2	5693.9	5555.6	5463.1	5352.8	5273.6	5151.6	5043.8	4972.7
70°	5504.8	5248.6	5046.4	4953.4	4816.1	4617.4	4512.2	4413.1	4338.4	4240.8	4197.6
72.5°	3861.6	3545.5	3389.5	3395.6	3256.3	3114.0	3117.6	3057.1	2960.5	2957.5	2942.7
75°	1419.0	1290.9	1201.0	1205.0	1153.2	1097.8	1113.1	1129.3	1097.8	1161.8	1062.7
77.5°	225.7	219.6	217.5	213.0	201.8	209.9	204.3	215.0	216.5	228.2	229.2
80°	143.8	137.7	136.2	133.7	133.2	133.2	132.1	132.1	132.1	132.7	131.6
82.5°	96.1	92.5	92.0	90.5	93.0	93.5	94.0	98.1	101.6	102.7	106.7
85°	52.3	49.8	49.8	48.8	50.8	51.3	55.9	61.5	68.6	71.7	78.3
87.5°	26.4	28.0	27.4	28.5	30.0	33.5	37.1	40.7	44.7	50.3	54.9
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°	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0	706.0
2.5°	704.4	703.9	703.9	702.9	702.9	702.4	701.4	700.4	695.8	690.2	686.6
5°	715.1	714.1	713.6	712.6	711.0	711.0	709.5	707.5	698.8	689.7	684.1
7.5°	737.0	736.4	734.9	732.9	730.9	728.8	727.8	726.8	713.6	704.9	700.9
10°	768.5	768.0	764.4	763.9	760.8	761.4	758.8	756.8	748.1	738.5	732.9
12.5°	808.6	810.7	808.6	804.0	805.1	803.5	801.0	798.5	790.8	783.2	774.6
15°	858.4	855.9	853.9	857.9	854.4	853.9	855.4	855.9	846.7	838.6	826.4
17.5°	920.4	920.4	919.4	920.4	918.4	919.9	918.9	919.9	915.9	904.7	886.9
20°	991.1	995.1	995.1	993.6	993.1	996.2	997.7	992.1	993.1	983.5	951.4
22.5°	1073.4	1076.5	1077.5	1076.0	1076.5	1080.5	1083.1	1079.0	1088.2	1072.4	1023.1
25°	1158.3	1162.9	1160.8	1161.3	1165.4	1170.0	1174.6	1170.5	1188.3	1163.9	1099.3
27.5°	1242.2	1246.2	1245.2	1248.3	1254.9	1261.0	1266.0	1264.5	1294.0	1262.0	1179.6
30°	1321.4	1331.1	1333.1	1336.7	1344.8	1355.0	1363.1	1362.6	1400.7	1357.5	1245.2
32.5°	1419.0	1429.7	1433.8	1441.4	1457.1	1464.3	1474.4	1475.4	1513.6	1441.4	1300.6
35°	1531.9	1542.5	1551.2	1556.8	1574.5	1583.2	1593.3	1597.9	1623.3	1519.7	1339.2
37.5°	1619.3	1628.4	1645.2	1656.9	1672.6	1689.9	1701.6	1707.2	1721.4	1586.7	1357.0
40°	1714.8	1734.6	1750.9	1768.7	1786.0	1799.7	1810.4	1819.0	1813.4	1642.6	1349.4
42.5°	1835.8	1856.6	1878.5	1893.7	1902.9	1921.2	1926.2	1932.3	1886.6	1668.1	1314.8
45°	1961.8	1978.6	1996.9	2008.1	2020.3	2029.4	2030.9	2031.5	1941.0	1653.3	1252.3
47.5°	2083.3	2097.5	2110.2	2116.3	2122.4	2122.9	2120.4	2116.3	1970.0	1603.5	1177.1
50°	2216.5	2225.1	2230.7	2231.2	2236.8	2226.1	2219.0	2200.2	1966.9	1527.3	1097.8
52.5°	2408.1	2406.0	2398.9	2398.4	2380.6	2360.3	2347.1	2320.1	1946.1	1444.9	1006.3
55°	2848.2	2828.9	2851.3	2794.3	2747.1	2715.6	2640.8	2586.5	1966.9	1368.2	901.1
57.5°	3905.9	3839.8	3846.9	3754.9	3654.3	3465.7	3354.4	3204.0	2130.6	1325.5	768.5
60°	5021.5	4912.7	4810.0	4646.9	4432.9	4193.5	3978.0	3742.7	2293.2	1273.2	627.2
62.5°	5481.9	5341.7	5163.3	4933.0	4658.1	4361.3	4063.4	3795.1	2203.8	1115.6	451.8
65°	5333.5	5165.8	4975.7	4675.3	4363.3	4018.2	3691.9	3408.3	1835.3	815.7	272.9
67.5°	4806.5	4662.1	4427.8	4144.2	3758.0	3411.9	3089.1	2826.9	1352.9	504.2	156.5
70°	4047.2	3847.4	3647.2	3374.7	2967.6	2641.4	2341.0	2109.2	858.4	249.0	115.4
72.5°	2793.3	2635.3	2475.2	2231.2	1927.3	1702.6	1444.4	1253.8	449.3	134.2	106.2
75°	1088.2	1070.9	1052.6	941.8	838.6	671.9	590.1	532.1	187.0	116.4	104.7
77.5°	238.9	253.1	261.2	247.5	235.8	210.4	201.3	179.9	125.0	119.4	103.7
80°	131.6	131.6	131.6	133.2	130.6	130.6	129.1	126.6	116.9	119.4	101.6
82.5°	107.7	109.3	111.3	111.8	111.3	111.8	110.8	110.3	114.4	119.9	96.6
85°	82.3	87.4	90.5	94.5	98.6	101.1	102.2	102.7	105.2	113.8	84.4
87.5°	58.4	62.5	69.1	70.1	74.7	80.3	82.3	85.4	83.9	86.4	39.6
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°	706.0	706.0	706.0	706.0	706.0
2.5°	683.6	679.5	678.0	677.5	676.5
5°	679.5	677.0	674.9	673.4	674.4
7.5°	697.8	696.3	692.7	691.7	693.2
10°	730.3	726.8	721.7	722.2	721.7
12.5°	771.0	761.4	753.2	749.7	747.1
15°	812.7	793.9	777.1	769.5	766.4
17.5°	858.9	826.9	801.0	787.3	784.7
20°	907.7	863.5	830.0	813.7	811.2
22.5°	964.1	903.2	860.5	838.1	834.5
25°	1019.0	938.7	881.8	854.4	849.8
27.5°	1068.8	965.7	894.5	862.0	857.4
30°	1110.5	987.0	905.2	868.1	863.0
32.5°	1138.0	998.7	908.7	868.6	862.5
35°	1146.6	991.1	893.5	847.2	842.2
37.5°	1128.3	960.1	852.8	800.5	796.4
40°	1086.6	902.6	788.8	734.4	729.3
42.5°	1021.6	830.0	714.6	657.2	652.6
45°	949.4	752.2	635.8	578.4	573.8
47.5°	870.6	669.9	553.0	500.1	493.0
50°	784.2	580.4	468.6	416.8	410.2
52.5°	683.1	482.8	379.2	332.4	328.3
55°	564.7	384.7	301.9	267.8	263.8
57.5°	439.1	292.7	239.9	223.1	216.5
60°	318.7	222.6	191.1	183.0	179.4
62.5°	216.5	166.2	154.0	151.5	148.9
65°	146.9	130.1	126.6	127.1	125.5
67.5°	115.9	109.3	107.2	108.3	107.7
70°	101.6	96.6	96.1	97.1	96.6
72.5°	96.1	89.5	90.5	92.0	91.5
75°	93.5	86.4	88.4	89.5	86.9
77.5°	91.0	81.8	87.9	90.0	84.9
80°	87.4	77.8	92.0	91.0	81.3
82.5°	79.8	68.6	90.0	82.3	73.2
85°	65.1	51.3	101.1	72.7	53.4
87.5°	41.7	31.0	70.1	55.4	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)