

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: P146340

Luminaire Tested: **LDRL-T2-E03-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146340
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-E03-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8995.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

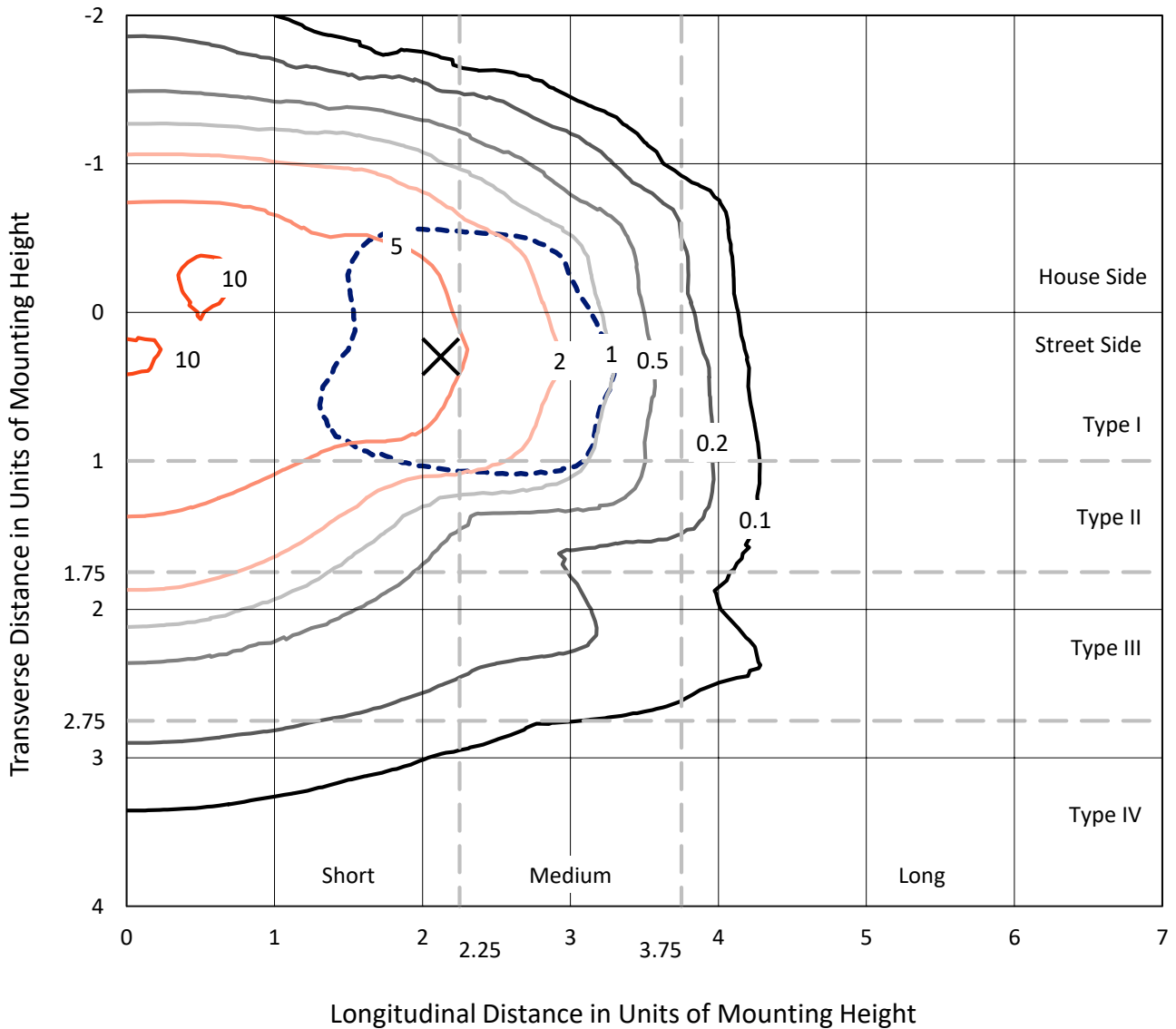
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

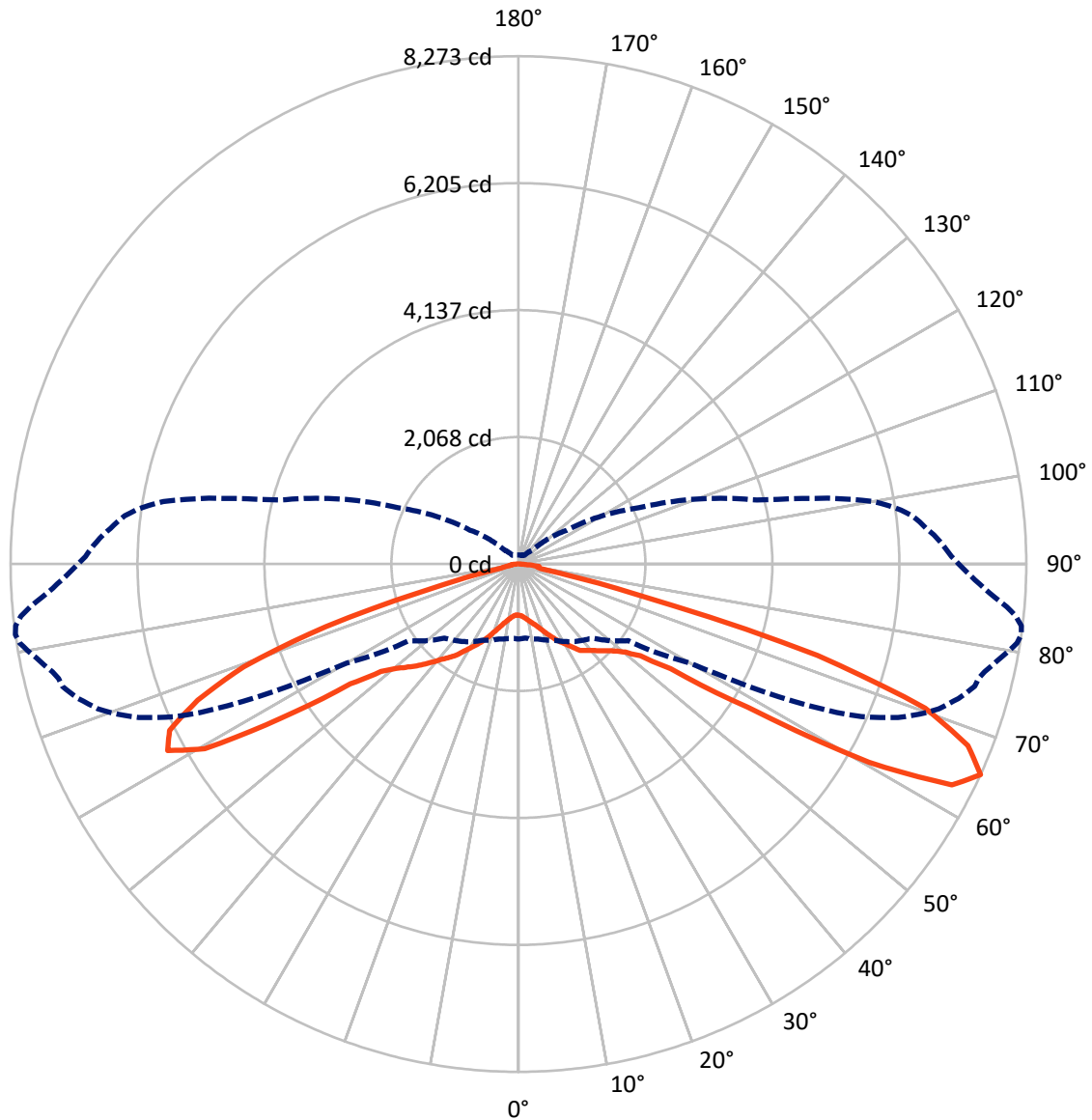
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 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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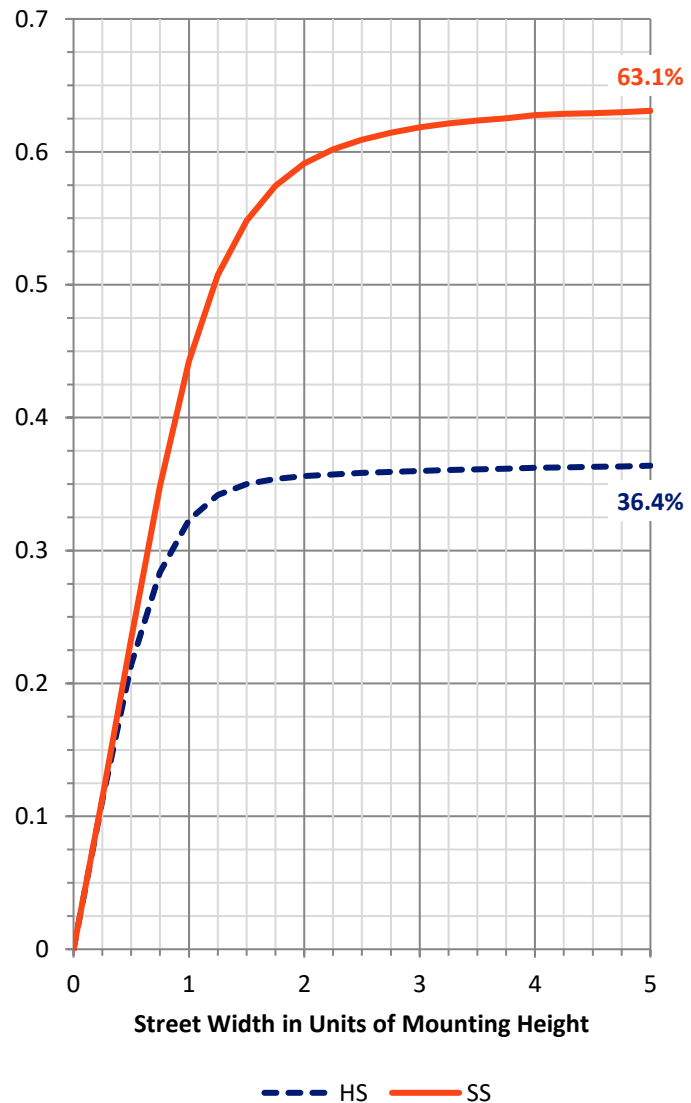
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3311.4	0.0	3311.4
	% Fixture	36.8	0.0	36.8
Street Side	Lumens	5684.3	0.0	5684.3
	% Fixture	63.2	0.0	63.2
Total	Lumens	8995.7	0.0	8995.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	0.9
10°-20°	297.9	3.3
20°-30°	590.9	6.6
30°-40°	1008.2	11.2
40°-50°	1511.9	16.8
50°-60°	2104.4	23.4
60°-70°	2417.7	26.9
70°-80°	834.3	9.3
80°-90°	145.9	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°	8995.7	100.0
0°-180°	8995.7	100.0

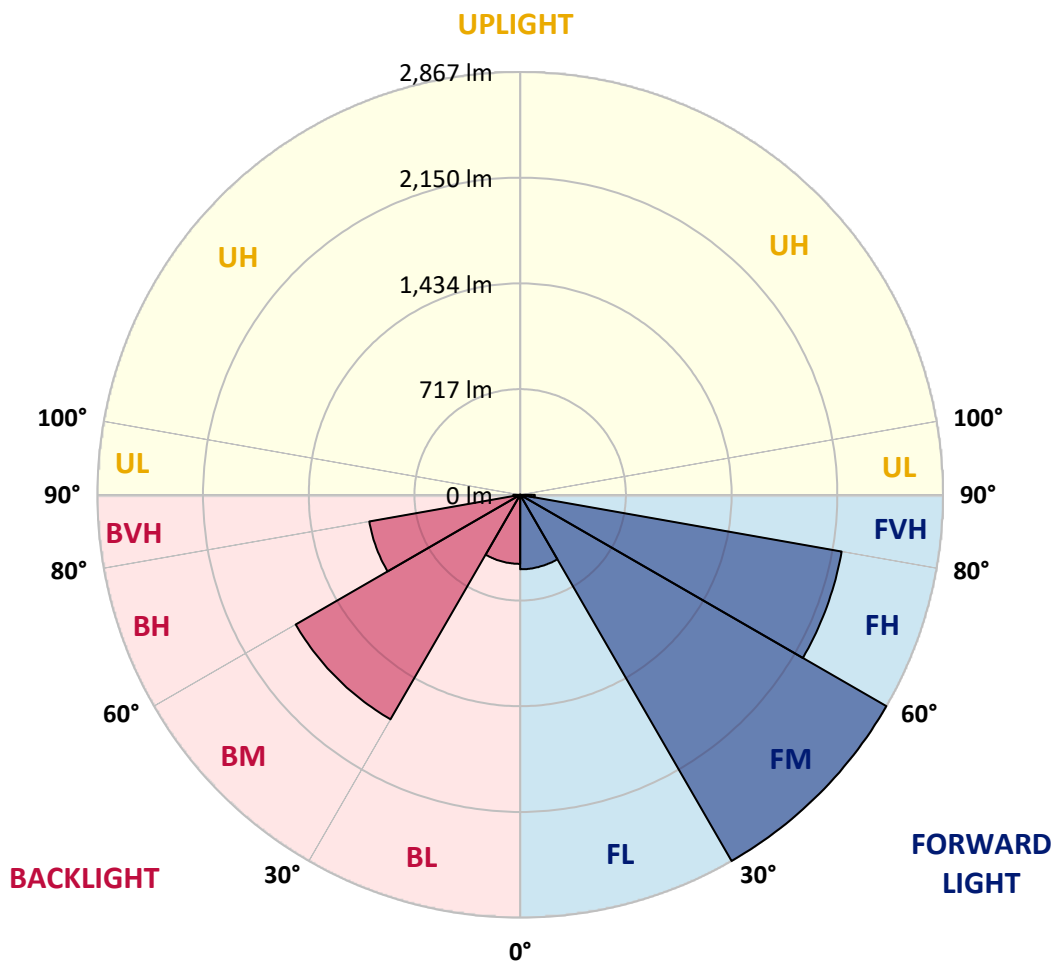


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.0	5.6			
FM	(30°-60°)	2867.0	31.9			
FH	(60°-80°)	2213.2	24.6			G2/5000
FVH	(80°-90°)	99.1	1.1			G1/100
BL	(0°-30°)	468.4	5.2	B1/500		
BM	(30°-60°)	1757.4	19.5	B2/2500		
BH	(60°-80°)	1038.7	11.5	B3/2500		G3/2500
BVH	(80°-90°)	46.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	879.6	879.0	878.4	876.0	874.8	870.0	865.2	862.2	859.8	861.0	857.4
5°	930.6	930.6	928.2	925.2	921.6	915.0	903.0	897.0	895.8	895.8	891.6
7.5°	982.8	986.4	979.8	977.4	971.4	961.2	947.4	939.6	937.2	937.2	933.6
10°	1048.8	1047.0	1039.8	1035.0	1023.0	1009.2	990.6	981.6	978.0	981.0	975.0
12.5°	1118.4	1117.8	1107.0	1098.0	1081.2	1059.0	1034.4	1022.4	1020.0	1020.0	1016.4
15°	1189.2	1189.8	1177.8	1161.0	1134.6	1104.6	1077.0	1065.6	1062.6	1061.4	1057.2
17.5°	1243.2	1249.2	1237.2	1215.6	1183.2	1150.2	1120.8	1109.4	1108.8	1107.6	1102.8
20°	1273.8	1275.0	1268.4	1252.8	1224.0	1192.2	1171.8	1166.4	1165.8	1166.4	1167.6
22.5°	1272.6	1274.4	1272.0	1266.0	1247.4	1230.0	1227.6	1230.6	1232.4	1230.6	1234.8
25°	1263.0	1265.4	1265.4	1268.4	1263.6	1269.6	1288.8	1297.2	1297.8	1299.0	1308.0
27.5°	1284.0	1286.4	1285.8	1291.2	1295.4	1316.4	1351.2	1366.2	1368.0	1372.2	1380.6
30°	1381.2	1381.8	1371.0	1370.4	1374.6	1391.4	1426.8	1444.2	1442.4	1450.8	1456.2
32.5°	1534.8	1539.6	1528.8	1517.4	1515.6	1518.0	1524.6	1536.6	1534.8	1539.0	1546.2
35°	1710.0	1710.6	1704.6	1711.2	1714.8	1698.6	1667.4	1664.4	1654.8	1656.6	1659.0
37.5°	1870.8	1875.0	1886.4	1928.4	1952.4	1912.8	1851.6	1813.2	1807.2	1804.2	1783.2
40°	2021.4	2042.4	2070.0	2124.6	2157.6	2172.0	2085.0	2007.6	1986.6	1978.2	1945.2
42.5°	2197.8	2208.6	2241.0	2303.4	2347.2	2412.6	2354.4	2269.2	2244.6	2208.6	2167.2
45°	2347.2	2354.4	2374.8	2427.6	2519.4	2628.6	2635.2	2575.8	2556.6	2520.6	2460.0
47.5°	2447.4	2446.8	2461.8	2513.4	2632.8	2799.6	2898.6	2896.2	2874.0	2861.4	2809.8
50°	2486.4	2485.8	2495.4	2553.0	2683.2	2901.6	3120.0	3195.0	3194.4	3199.2	3172.8
52.5°	2493.6	2493.0	2494.2	2540.4	2673.0	2937.0	3279.6	3456.6	3482.4	3514.8	3544.2
55°	2439.6	2445.6	2458.8	2507.4	2634.6	2922.6	3397.8	3702.0	3763.8	3829.8	3936.6
57.5°	2314.8	2326.2	2371.8	2458.8	2593.8	2887.2	3480.0	4005.6	4131.0	4290.6	4579.8
60°	2136.0	2146.2	2209.2	2324.4	2475.0	2733.0	3384.6	4132.8	4371.0	4648.2	5241.0
62.5°	1819.8	1848.6	1882.2	1963.8	2121.6	2329.2	2956.2	3918.0	4287.0	4693.8	5509.8
65°	1222.2	1210.2	1266.0	1369.8	1543.2	1704.6	2178.0	3231.6	3698.4	4258.2	5268.0
67.5°	756.6	758.4	796.2	897.6	1028.4	1153.8	1380.6	2059.8	2473.8	3006.0	4220.4
70°	625.2	632.4	663.0	757.2	868.8	1010.4	1024.8	1092.0	1277.4	1534.8	2607.0
72.5°	496.2	499.2	530.4	609.0	766.8	961.2	1216.8	829.8	815.4	854.4	1322.4
75°	307.8	310.2	325.8	376.2	497.4	748.8	1339.8	954.0	894.0	843.6	852.0
77.5°	159.0	163.8	172.2	195.0	261.0	418.2	1054.8	1209.6	1141.2	1072.8	939.0
80°	90.0	90.0	97.8	103.2	123.6	170.4	536.4	1309.2	1430.4	1459.8	1311.0
82.5°	40.2	45.0	60.6	64.8	70.8	78.0	177.6	786.6	1091.4	1363.2	1684.8
85°	24.0	23.4	38.4	42.0	43.8	37.2	66.6	321.0	510.0	746.4	1116.6
87.5°	9.6	10.2	16.2	17.4	20.4	15.0	25.2	69.0	101.4	147.0	207.6
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°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	856.8	856.8	856.2	855.6	855.0	853.2	852.6	851.4	850.8	849.0	848.4
5°	891.0	889.2	888.6	887.4	886.8	884.4	884.4	882.0	880.2	877.8	877.2
7.5°	931.8	929.4	927.6	926.4	925.8	921.6	921.6	918.0	917.4	914.4	913.2
10°	973.2	971.4	969.0	967.8	967.2	964.8	962.4	960.0	958.2	956.4	954.0
12.5°	1014.6	1011.0	1009.8	1008.0	1006.8	1005.0	1004.4	999.0	999.0	997.2	994.8
15°	1054.8	1054.2	1050.0	1049.4	1048.2	1048.8	1045.2	1045.8	1044.0	1041.0	1039.8
17.5°	1104.0	1099.8	1101.6	1098.6	1099.2	1098.0	1096.8	1096.2	1097.4	1096.8	1098.0
20°	1165.2	1164.0	1165.8	1161.6	1165.8	1166.4	1165.2	1168.2	1167.0	1168.2	1164.6
22.5°	1237.8	1233.6	1233.6	1236.6	1238.4	1243.8	1240.8	1243.2	1245.6	1247.4	1245.0
25°	1311.0	1309.8	1312.2	1314.6	1318.2	1323.0	1321.8	1322.4	1327.2	1330.2	1330.8
27.5°	1385.4	1385.4	1392.6	1392.6	1397.4	1402.8	1404.6	1407.0	1410.6	1414.8	1414.8
30°	1462.2	1462.2	1468.8	1474.8	1477.2	1483.8	1487.4	1491.0	1497.6	1498.8	1504.2
32.5°	1549.8	1551.6	1558.2	1561.8	1567.2	1575.0	1576.2	1580.4	1588.2	1590.6	1594.8
35°	1663.8	1657.8	1663.8	1670.4	1673.4	1671.0	1684.2	1689.6	1695.0	1698.0	1703.4
37.5°	1781.4	1771.2	1771.8	1770.6	1763.4	1767.6	1767.6	1766.4	1770.0	1769.4	1771.8
40°	1930.2	1912.2	1906.8	1895.4	1879.8	1871.4	1862.4	1861.2	1852.2	1855.8	1849.2
42.5°	2134.2	2107.2	2092.8	2057.4	2038.2	2015.4	1993.2	1974.0	1963.8	1952.4	1944.0
45°	2414.4	2382.6	2347.8	2290.8	2257.8	2212.2	2182.8	2139.0	2109.6	2085.0	2067.6
47.5°	2766.0	2712.6	2684.4	2631.0	2573.4	2504.4	2441.4	2380.2	2330.4	2276.4	2233.8
50°	3174.6	3108.0	3085.8	3015.0	2982.6	2905.2	2838.0	2762.4	2684.4	2602.8	2524.8
52.5°	3536.4	3528.6	3537.6	3490.2	3489.0	3450.0	3375.6	3287.4	3214.8	3132.6	3030.0
55°	3970.2	4047.6	4064.4	4057.8	4093.2	4092.0	4084.8	4075.8	4018.2	3901.8	3866.4
57.5°	4735.8	4822.8	4951.2	5009.4	5137.8	5152.8	5271.6	5225.4	5313.6	5289.6	5305.8
60°	5515.2	5782.2	6025.8	6211.2	6391.2	6555.0	6755.4	6841.2	6905.4	7005.6	7111.2
62.5°	5863.8	6200.4	6490.8	6754.8	6978.6	7186.2	7358.4	7521.6	7650.0	7765.2	7854.0
65°	5722.8	6113.4	6396.6	6672.0	6880.8	7074.0	7245.0	7367.4	7495.2	7599.6	7693.8
67.5°	4764.6	5284.8	5654.4	5967.0	6229.2	6449.4	6627.0	6795.6	6886.2	7000.2	7051.2
70°	3156.0	3823.2	4345.8	4768.2	5184.0	5433.6	5644.2	5840.4	5943.6	6036.0	6093.0
72.5°	1733.4	2189.4	2747.4	3249.6	3649.2	3976.8	4222.2	4408.2	4514.4	4593.6	4511.4
75°	982.2	1207.2	1480.2	1758.0	2061.0	2292.0	2356.8	2436.0	2454.6	2413.8	2308.2
77.5°	903.0	903.0	903.6	897.0	910.2	926.4	916.8	900.6	827.4	811.2	788.4
80°	1174.2	1046.4	909.6	747.0	609.0	513.6	484.2	486.6	510.0	555.6	606.0
82.5°	1664.4	1538.4	1341.0	1093.2	870.0	682.8	559.8	503.4	502.8	548.4	613.8
85°	1213.8	1224.0	1180.2	1044.0	832.8	655.8	529.8	406.8	367.2	367.2	362.4
87.5°	212.4	219.0	189.0	169.2	118.2	83.4	75.0	66.0	65.4	67.8	62.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	848.4	847.2	846.0	845.4	845.4	844.2	844.2	843.0	843.6	843.0	841.2
5°	876.0	875.4	873.6	870.6	870.0	867.6	868.2	865.8	865.8	864.6	861.6
7.5°	910.8	909.6	908.4	906.0	903.6	903.6	899.4	899.4	896.4	895.2	892.8
10°	952.2	948.6	946.8	944.4	943.8	943.2	939.0	939.0	935.4	934.8	933.0
12.5°	993.0	990.6	988.8	987.6	984.6	984.0	982.2	980.4	978.6	977.4	976.8
15°	1037.4	1036.2	1034.4	1034.4	1034.4	1031.4	1029.6	1028.4	1028.4	1026.6	1027.8
17.5°	1095.0	1096.8	1094.4	1093.2	1091.4	1094.4	1091.4	1091.4	1093.2	1093.2	1089.0
20°	1166.4	1168.8	1166.4	1167.0	1165.8	1166.4	1167.0	1168.2	1170.6	1166.4	1167.0
22.5°	1245.6	1246.2	1248.0	1246.2	1249.2	1247.4	1251.0	1254.0	1253.4	1252.2	1252.8
25°	1332.0	1330.2	1330.8	1336.2	1340.4	1339.2	1339.8	1344.6	1343.4	1342.2	1342.8
27.5°	1419.6	1418.4	1420.2	1425.0	1429.8	1429.2	1428.0	1431.6	1431.6	1428.6	1429.8
30°	1506.6	1508.4	1511.4	1511.4	1513.8	1516.2	1514.4	1518.6	1519.2	1516.8	1519.8
32.5°	1598.4	1602.0	1600.8	1609.2	1609.2	1609.8	1611.6	1611.0	1617.0	1612.2	1614.0
35°	1708.8	1710.0	1717.2	1723.2	1726.8	1729.8	1729.8	1731.6	1734.6	1732.2	1735.8
37.5°	1776.0	1778.4	1780.8	1784.4	1784.4	1784.4	1787.4	1788.0	1789.8	1789.2	1790.4
40°	1849.8	1850.4	1851.0	1851.6	1854.0	1855.2	1852.2	1856.4	1853.4	1854.6	1856.4
42.5°	1939.2	1930.8	1932.0	1930.2	1934.4	1929.0	1930.2	1935.0	1932.6	1936.2	1936.2
45°	2043.0	2033.4	2025.0	2020.2	2020.2	2013.0	2014.2	2016.0	2019.0	2023.8	2032.2
47.5°	2196.6	2163.6	2147.4	2130.6	2122.2	2113.2	2116.2	2116.8	2118.0	2125.8	2146.8
50°	2448.0	2392.8	2350.2	2299.2	2280.0	2264.4	2255.4	2256.0	2256.0	2272.2	2293.2
52.5°	2934.0	2831.4	2730.0	2641.2	2565.0	2528.4	2485.8	2475.0	2475.6	2489.4	2503.8
55°	3773.4	3632.4	3525.0	3327.6	3267.6	3099.0	3010.2	2959.2	2919.6	2938.8	2959.8
57.5°	5279.4	5149.2	5064.0	4828.2	4613.4	4552.2	4406.4	4288.2	4239.6	4183.2	4186.8
60°	7126.8	7059.6	7038.0	6900.0	6822.6	6582.0	6562.8	6413.4	6272.4	6150.6	6200.4
62.5°	7922.4	7953.6	7978.8	8027.4	8046.0	8023.2	7926.6	7860.6	7744.8	7585.2	7487.4
65°	7721.4	7792.8	7900.2	8001.6	8122.8	8223.6	8273.4	8254.2	8149.8	7985.4	7780.2
67.5°	7087.8	7160.4	7252.8	7381.2	7566.6	7762.8	7899.6	7986.6	7903.8	7755.6	7546.8
70°	6090.0	6160.8	6163.8	6343.2	6543.0	6790.2	7032.6	7123.8	7029.6	6930.6	6756.0
72.5°	4561.2	4518.6	4558.2	4591.2	4705.2	4861.2	5096.4	5086.2	4942.2	4865.4	4597.2
75°	2143.8	2115.0	2073.0	2045.4	2019.0	1963.8	1990.2	1877.4	1838.4	1854.0	1622.4
77.5°	771.0	731.4	667.8	606.0	528.0	437.4	369.0	324.0	301.8	302.4	288.6
80°	646.8	666.0	657.0	595.8	508.2	413.4	309.6	234.6	200.4	186.0	177.0
82.5°	701.4	798.0	846.0	808.2	682.8	525.6	338.4	204.6	150.0	128.4	123.0
85°	388.8	389.4	377.4	360.6	319.8	219.6	146.4	97.2	78.0	69.6	67.2
87.5°	66.0	63.0	63.0	58.8	51.6	50.4	45.0	42.6	37.8	34.8	33.6
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	839.4	838.2	837.6	837.0	837.0	836.4	836.4	835.2	834.0	833.4	832.8
5°	858.6	857.4	856.2	855.0	855.0	853.8	852.6	851.4	849.6	846.6	846.0
7.5°	891.0	888.6	888.6	884.4	884.4	882.0	880.2	880.2	877.8	873.0	872.4
10°	931.2	927.0	925.2	922.8	921.6	919.2	919.2	916.8	915.6	913.8	907.8
12.5°	974.4	971.4	970.2	967.2	965.4	965.4	964.2	960.0	963.0	958.8	955.8
15°	1026.6	1026.0	1020.6	1022.4	1021.8	1021.2	1021.8	1018.2	1017.6	1017.6	1014.0
17.5°	1092.0	1087.2	1087.8	1087.8	1089.0	1089.0	1084.2	1086.6	1087.2	1086.0	1084.8
20°	1168.8	1167.0	1168.8	1165.2	1168.8	1168.8	1171.2	1170.6	1171.2	1172.4	1172.4
22.5°	1251.0	1255.8	1256.4	1257.6	1253.4	1260.6	1260.6	1261.8	1264.8	1264.8	1266.0
25°	1350.6	1348.2	1345.2	1349.4	1350.6	1355.4	1356.6	1356.6	1361.4	1361.4	1363.2
27.5°	1433.4	1435.8	1435.2	1437.6	1436.4	1443.0	1445.4	1452.6	1450.8	1454.4	1459.2
30°	1518.6	1523.4	1521.0	1521.6	1524.6	1528.8	1533.6	1540.8	1542.0	1551.6	1554.0
32.5°	1617.0	1620.6	1623.6	1624.8	1624.8	1632.0	1639.8	1642.2	1654.8	1662.0	1670.4
35°	1741.8	1742.4	1744.2	1746.0	1744.8	1752.6	1760.4	1762.8	1776.0	1777.8	1795.2
37.5°	1794.6	1795.8	1803.0	1806.6	1809.0	1818.6	1833.0	1843.8	1858.2	1872.0	1891.8
40°	1860.6	1867.8	1874.4	1879.8	1888.8	1902.0	1924.2	1935.0	1956.6	1982.4	2001.6
42.5°	1944.0	1957.2	1962.0	1972.2	1994.4	2010.6	2032.8	2056.2	2085.0	2116.2	2139.0
45°	2043.0	2055.6	2073.6	2085.0	2110.8	2136.6	2172.0	2192.4	2221.8	2257.8	2283.0
47.5°	2163.0	2180.4	2198.4	2221.8	2252.4	2279.4	2314.8	2341.2	2370.6	2400.0	2427.6
50°	2312.4	2338.2	2362.2	2386.8	2427.6	2450.4	2485.2	2512.8	2540.4	2569.8	2595.0
52.5°	2513.4	2552.4	2583.0	2599.8	2655.0	2677.8	2720.4	2739.6	2762.4	2788.8	2821.2
55°	2952.0	3012.6	3064.2	3094.2	3178.2	3208.2	3263.4	3291.6	3276.0	3309.6	3367.8
57.5°	4220.4	4294.8	4356.6	4397.4	4483.2	4525.2	4528.2	4633.8	4571.4	4633.2	4642.2
60°	6067.8	6126.6	6111.6	6112.2	6085.2	6046.2	6121.2	6007.2	6055.2	6058.2	5950.8
62.5°	7306.8	7216.8	7174.8	7105.2	7024.2	6961.8	6919.2	6827.4	6754.2	6696.0	6582.6
65°	7598.4	7442.4	7304.4	7174.2	7054.8	6972.0	6882.0	6783.6	6669.0	6572.4	6462.0
67.5°	7316.4	7098.0	6893.4	6721.8	6558.6	6449.4	6319.2	6225.6	6081.6	5954.4	5870.4
70°	6498.6	6196.2	5957.4	5847.6	5685.6	5451.0	5326.8	5209.8	5121.6	5006.4	4955.4
72.5°	4558.8	4185.6	4001.4	4008.6	3844.2	3676.2	3680.4	3609.0	3495.0	3491.4	3474.0
75°	1675.2	1524.0	1417.8	1422.6	1361.4	1296.0	1314.0	1333.2	1296.0	1371.6	1254.6
77.5°	266.4	259.2	256.8	251.4	238.2	247.8	241.2	253.8	255.6	269.4	270.6
80°	169.8	162.6	160.8	157.8	157.2	157.2	156.0	156.0	156.0	156.6	155.4
82.5°	113.4	109.2	108.6	106.8	109.8	110.4	111.0	115.8	120.0	121.2	126.0
85°	61.8	58.8	58.8	57.6	60.0	60.6	66.0	72.6	81.0	84.6	92.4
87.5°	31.2	33.0	32.4	33.6	35.4	39.6	43.8	48.0	52.8	59.4	64.8
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):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4	833.4
2.5°	831.6	831.0	831.0	829.8	829.8	829.2	828.0	826.8	821.4	814.8	810.6
5°	844.2	843.0	842.4	841.2	839.4	839.4	837.6	835.2	825.0	814.2	807.6
7.5°	870.0	869.4	867.6	865.2	862.8	860.4	859.2	858.0	842.4	832.2	827.4
10°	907.2	906.6	902.4	901.8	898.2	898.8	895.8	893.4	883.2	871.8	865.2
12.5°	954.6	957.0	954.6	949.2	950.4	948.6	945.6	942.6	933.6	924.6	914.4
15°	1013.4	1010.4	1008.0	1012.8	1008.6	1008.0	1009.8	1010.4	999.6	990.0	975.6
17.5°	1086.6	1086.6	1085.4	1086.6	1084.2	1086.0	1084.8	1086.0	1081.2	1068.0	1047.0
20°	1170.0	1174.8	1174.8	1173.0	1172.4	1176.0	1177.8	1171.2	1172.4	1161.0	1123.2
22.5°	1267.2	1270.8	1272.0	1270.2	1270.8	1275.6	1278.6	1273.8	1284.6	1266.0	1207.8
25°	1367.4	1372.8	1370.4	1371.0	1375.8	1381.2	1386.6	1381.8	1402.8	1374.0	1297.8
27.5°	1466.4	1471.2	1470.0	1473.6	1481.4	1488.6	1494.6	1492.8	1527.6	1489.8	1392.6
30°	1560.0	1571.4	1573.8	1578.0	1587.6	1599.6	1609.2	1608.6	1653.6	1602.6	1470.0
32.5°	1675.2	1687.8	1692.6	1701.6	1720.2	1728.6	1740.6	1741.8	1786.8	1701.6	1535.4
35°	1808.4	1821.0	1831.2	1837.8	1858.8	1869.0	1881.0	1886.4	1916.4	1794.0	1581.0
37.5°	1911.6	1922.4	1942.2	1956.0	1974.6	1995.0	2008.8	2015.4	2032.2	1873.2	1602.0
40°	2024.4	2047.8	2067.0	2088.0	2108.4	2124.6	2137.2	2147.4	2140.8	1939.2	1593.0
42.5°	2167.2	2191.8	2217.6	2235.6	2246.4	2268.0	2274.0	2281.2	2227.2	1969.2	1552.2
45°	2316.0	2335.8	2357.4	2370.6	2385.0	2395.8	2397.6	2398.2	2291.4	1951.8	1478.4
47.5°	2459.4	2476.2	2491.2	2498.4	2505.6	2506.2	2503.2	2498.4	2325.6	1893.0	1389.6
50°	2616.6	2626.8	2633.4	2634.0	2640.6	2628.0	2619.6	2597.4	2322.0	1803.0	1296.0
52.5°	2842.8	2840.4	2832.0	2831.4	2810.4	2786.4	2770.8	2739.0	2297.4	1705.8	1188.0
55°	3362.4	3339.6	3366.0	3298.8	3243.0	3205.8	3117.6	3053.4	2322.0	1615.2	1063.8
57.5°	4611.0	4533.0	4541.4	4432.8	4314.0	4091.4	3960.0	3782.4	2515.2	1564.8	907.2
60°	5928.0	5799.6	5678.4	5485.8	5233.2	4950.6	4696.2	4418.4	2707.2	1503.0	740.4
62.5°	6471.6	6306.0	6095.4	5823.6	5499.0	5148.6	4797.0	4480.2	2601.6	1317.0	533.4
65°	6296.4	6098.4	5874.0	5519.4	5151.0	4743.6	4358.4	4023.6	2166.6	963.0	322.2
67.5°	5674.2	5503.8	5227.2	4892.4	4436.4	4027.8	3646.8	3337.2	1597.2	595.2	184.8
70°	4777.8	4542.0	4305.6	3984.0	3503.4	3118.2	2763.6	2490.0	1013.4	294.0	136.2
72.5°	3297.6	3111.0	2922.0	2634.0	2275.2	2010.0	1705.2	1480.2	530.4	158.4	125.4
75°	1284.6	1264.2	1242.6	1111.8	990.0	793.2	696.6	628.2	220.8	137.4	123.6
77.5°	282.0	298.8	308.4	292.2	278.4	248.4	237.6	212.4	147.6	141.0	122.4
80°	155.4	155.4	155.4	157.2	154.2	154.2	152.4	149.4	138.0	141.0	120.0
82.5°	127.2	129.0	131.4	132.0	131.4	132.0	130.8	130.2	135.0	141.6	114.0
85°	97.2	103.2	106.8	111.6	116.4	119.4	120.6	121.2	124.2	134.4	99.6
87.5°	69.0	73.8	81.6	82.8	88.2	94.8	97.2	100.8	99.0	102.0	46.8
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°	833.4	833.4	833.4	833.4	833.4
2.5°	807.0	802.2	800.4	799.8	798.6
5°	802.2	799.2	796.8	795.0	796.2
7.5°	823.8	822.0	817.8	816.6	818.4
10°	862.2	858.0	852.0	852.6	852.0
12.5°	910.2	898.8	889.2	885.0	882.0
15°	959.4	937.2	917.4	908.4	904.8
17.5°	1014.0	976.2	945.6	929.4	926.4
20°	1071.6	1019.4	979.8	960.6	957.6
22.5°	1138.2	1066.2	1015.8	989.4	985.2
25°	1203.0	1108.2	1041.0	1008.6	1003.2
27.5°	1261.8	1140.0	1056.0	1017.6	1012.2
30°	1311.0	1165.2	1068.6	1024.8	1018.8
32.5°	1343.4	1179.0	1072.8	1025.4	1018.2
35°	1353.6	1170.0	1054.8	1000.2	994.2
37.5°	1332.0	1133.4	1006.8	945.0	940.2
40°	1282.8	1065.6	931.2	867.0	861.0
42.5°	1206.0	979.8	843.6	775.8	770.4
45°	1120.8	888.0	750.6	682.8	677.4
47.5°	1027.8	790.8	652.8	590.4	582.0
50°	925.8	685.2	553.2	492.0	484.2
52.5°	806.4	570.0	447.6	392.4	387.6
55°	666.6	454.2	356.4	316.2	311.4
57.5°	518.4	345.6	283.2	263.4	255.6
60°	376.2	262.8	225.6	216.0	211.8
62.5°	255.6	196.2	181.8	178.8	175.8
65°	173.4	153.6	149.4	150.0	148.2
67.5°	136.8	129.0	126.6	127.8	127.2
70°	120.0	114.0	113.4	114.6	114.0
72.5°	113.4	105.6	106.8	108.6	108.0
75°	110.4	102.0	104.4	105.6	102.6
77.5°	107.4	96.6	103.8	106.2	100.2
80°	103.2	91.8	108.6	107.4	96.0
82.5°	94.2	81.0	106.2	97.2	86.4
85°	76.8	60.6	119.4	85.8	63.0
87.5°	49.2	36.6	82.8	65.4	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)