

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: P144839

Luminaire Tested: **LDRL-SL2-E03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144839
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33701)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL2-E03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8022.8 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

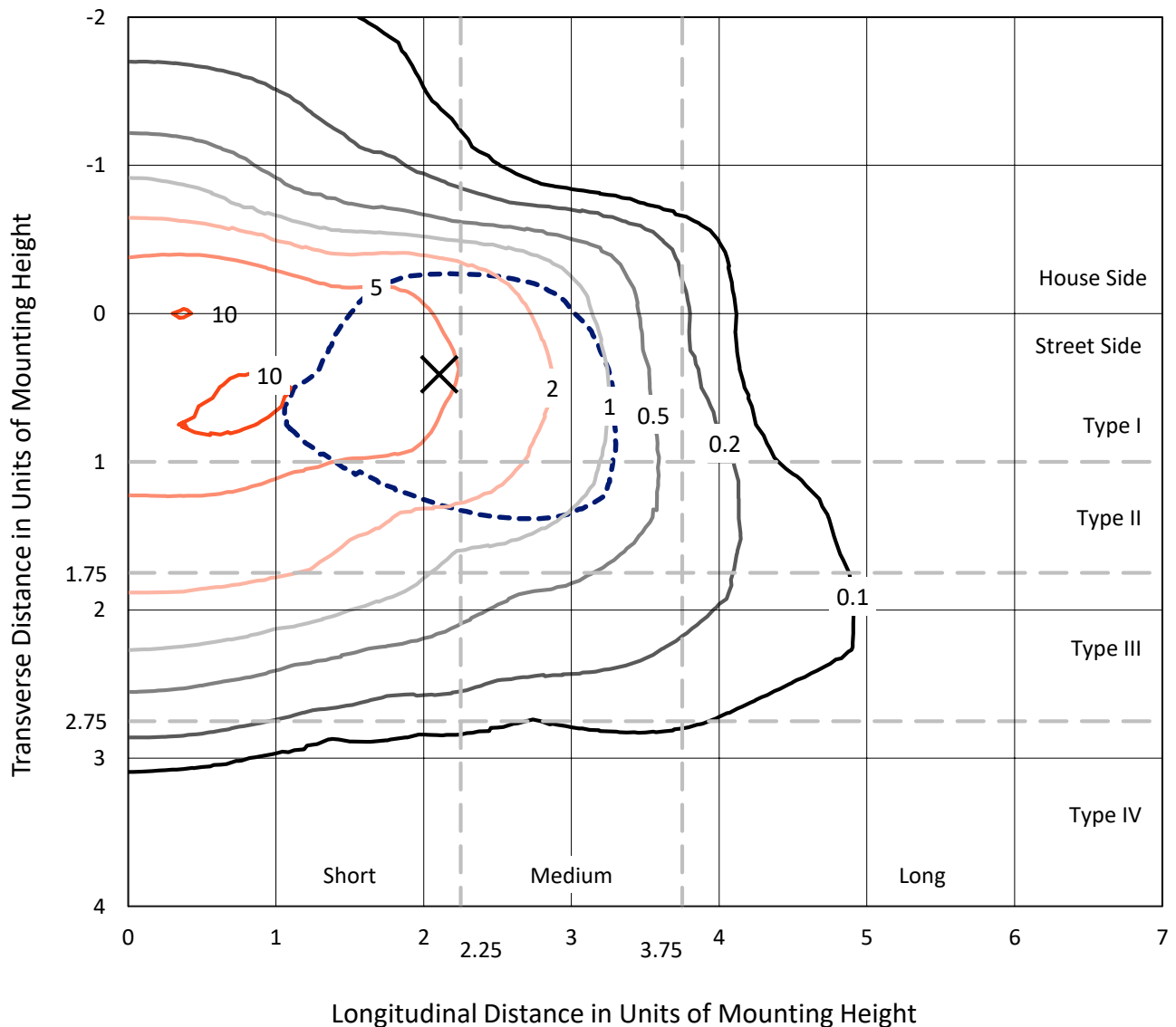
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

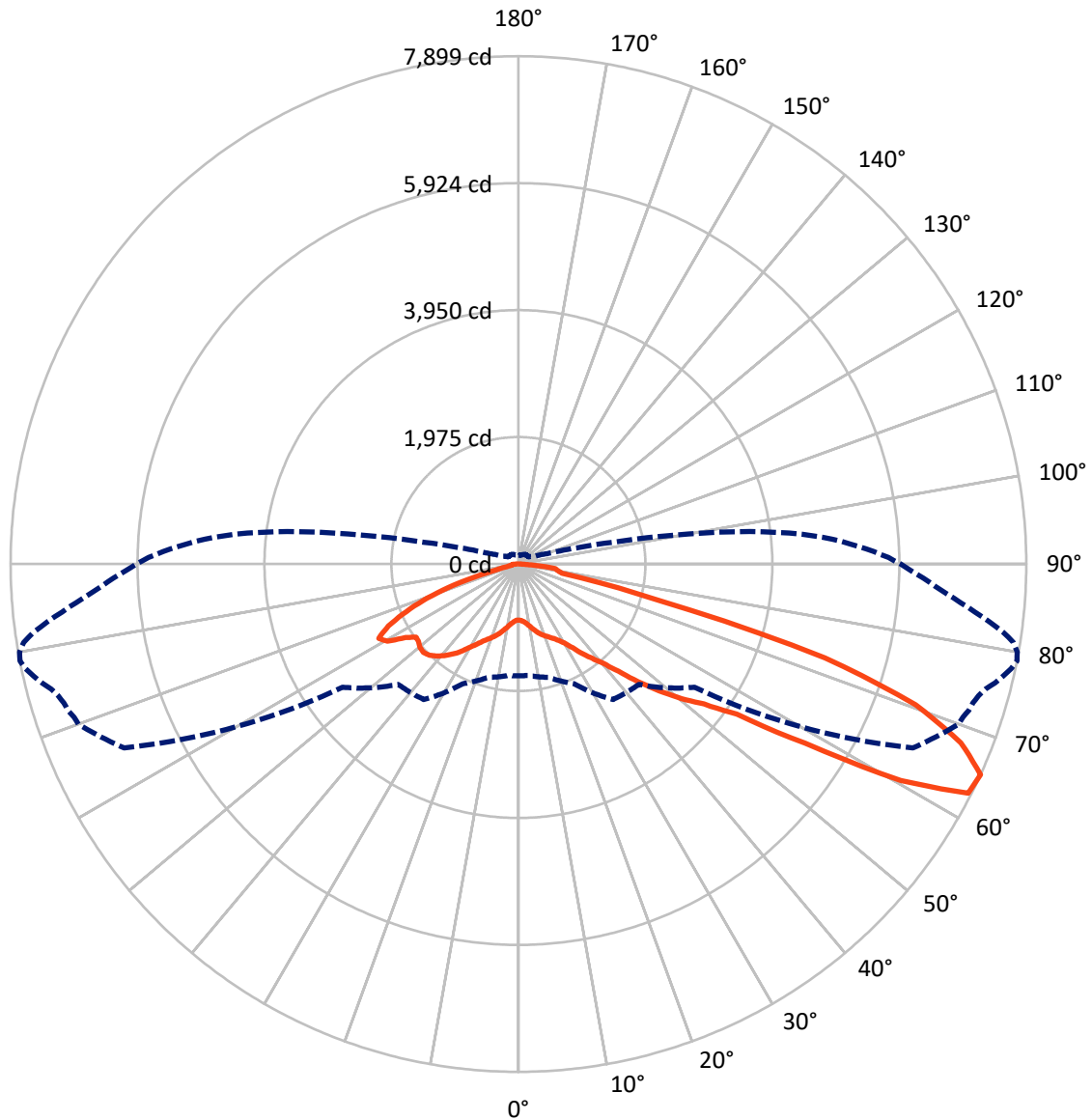
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1821.1	0.0	1821.1
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	6201.7	0.0	6201.7
	% Fixture	77.3	0.0	77.3
Total	Lumens	8022.8	0.0	8022.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.1
10°-20°	281.7	3.5
20°-30°	485.7	6.1
30°-40°	792.0	9.9
40°-50°	1322.2	16.5
50°-60°	1787.9	22.3
60°-70°	2221.1	27.7
70°-80°	889.4	11.1
80°-90°	156.3	1.9
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°	8022.8	100.0
0°-180°	8022.8	100.0



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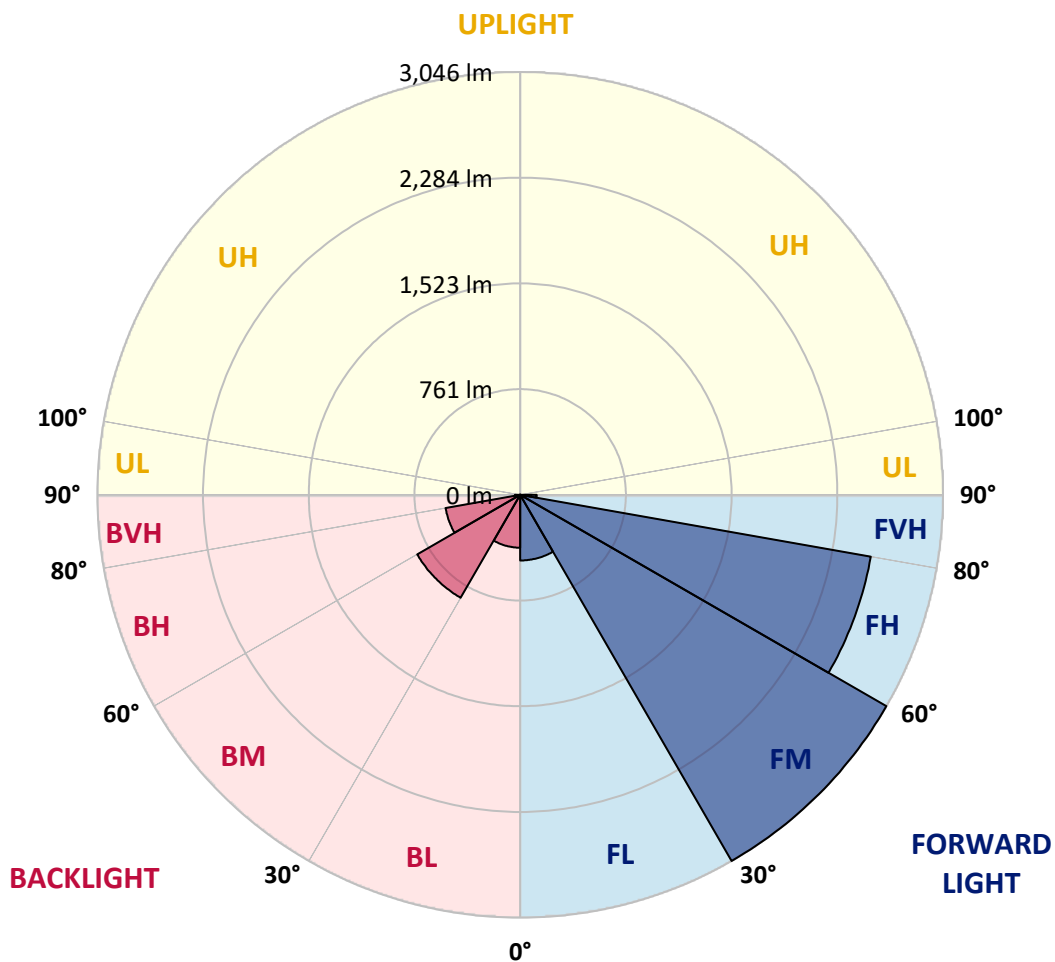
CATALOG NUMBER: LDRL-SL2-E03-E-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	5.9			
FM (30°-60°)	3045.6	38.0			
FH (60°-80°)	2564.5	32.0			G2/5000
FVH (80°-90°)	118.5	1.5			G2/225
BL (0°-30°)	380.9	4.7	B1/500		
BM (30°-60°)	856.5	10.7	B1/1000		
BH (60°-80°)	545.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	37.7	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°	65°	70°	71°	72°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	878.5	877.9	880.7	882.8	882.8	883.9	883.4	880.1	880.7	881.7	880.7
5°	888.3	886.1	888.9	892.2	894.4	897.1	899.8	900.4	902.6	902.6	902.0
7.5°	909.7	908.1	911.9	913.0	917.9	922.3	927.8	931.6	933.8	934.9	936.5
10°	946.4	945.3	946.4	948.6	950.8	955.7	965.0	973.3	978.2	978.2	980.4
12.5°	990.8	986.4	987.5	983.1	984.2	994.6	1005.6	1019.3	1027.5	1028.6	1029.7
15°	1025.3	1023.1	1021.5	1015.5	1019.8	1033.5	1050.5	1070.3	1077.4	1083.4	1082.9
17.5°	1057.7	1054.9	1051.1	1042.9	1047.2	1069.2	1094.9	1116.8	1128.9	1130.0	1131.1
20°	1096.0	1092.7	1085.6	1068.6	1067.5	1098.2	1132.7	1156.3	1167.3	1172.2	1173.8
22.5°	1144.8	1140.4	1127.3	1094.4	1085.6	1121.8	1162.9	1191.9	1203.4	1208.4	1211.1
25°	1207.3	1198.5	1177.7	1126.2	1108.1	1145.9	1195.2	1230.3	1246.2	1251.1	1254.4
27.5°	1263.7	1257.1	1231.9	1171.1	1139.9	1178.2	1234.7	1279.6	1301.5	1307.6	1312.5
30°	1329.5	1320.2	1299.9	1235.2	1193.6	1227.5	1299.3	1356.3	1383.2	1383.7	1394.7
32.5°	1484.0	1478.0	1459.4	1388.1	1318.0	1320.2	1387.0	1465.4	1492.2	1496.6	1506.5
35°	1713.1	1710.9	1710.3	1670.9	1618.8	1565.1	1570.0	1629.8	1647.9	1655.0	1658.3
37.5°	1863.8	1883.0	1929.5	1958.0	1944.9	1956.4	1896.1	1823.2	1812.8	1805.1	1808.4
40°	1993.7	2010.6	2104.9	2236.4	2316.4	2372.9	2319.7	2096.1	2012.8	1988.7	1979.4
42.5°	2070.4	2089.6	2224.4	2434.8	2638.7	2772.4	2786.6	2475.9	2264.4	2261.6	2226.6
45°	2112.0	2131.2	2292.3	2575.6	2863.9	3105.0	3230.0	2943.4	2632.6	2609.6	2560.9
47.5°	2103.8	2121.9	2289.6	2627.7	2997.1	3325.9	3575.8	3415.7	3057.3	3002.0	2934.6
50°	2003.5	2016.7	2192.6	2542.8	2961.4	3417.9	3812.5	3849.2	3538.0	3462.9	3362.0
52.5°	1900.0	1923.5	2069.3	2392.1	2799.8	3360.9	3953.9	4243.8	3986.8	3935.3	3805.9
55°	1844.1	1862.7	1981.6	2257.3	2629.4	3166.4	4012.5	4615.9	4532.0	4511.2	4419.7
57.5°	1841.9	1859.9	1954.8	2175.6	2490.7	2963.6	4029.5	5190.8	5436.8	5442.3	5416.0
60°	1931.7	1950.4	2029.8	2215.1	2448.0	2789.9	3968.7	6006.2	6549.8	6598.0	6678.6
62.5°	1944.3	1953.1	2049.0	2298.9	2603.6	2660.0	3718.2	6685.2	7314.8	7359.2	7403.6
65°	1739.4	1738.8	1823.8	2053.9	2571.3	2646.9	3341.8	6768.5	7284.2	7311.0	7366.4
67.5°	1297.1	1286.2	1334.4	1544.8	2040.2	2650.2	2895.7	6139.9	6716.4	6767.4	6786.0
70°	668.6	685.6	718.4	847.2	1295.5	2133.4	2487.4	5180.3	5896.0	5915.2	5981.5
72.5°	274.6	267.4	289.9	356.2	648.3	1410.0	2057.8	4088.2	4869.6	4856.5	4868.5
75°	152.9	155.1	161.7	185.8	315.1	708.0	1767.9	2894.0	3311.6	3084.7	3016.2
77.5°	122.8	123.9	124.4	128.8	172.1	377.6	1356.9	1906.0	1665.4	1546.5	1501.0
80°	89.9	95.9	102.5	103.6	118.4	214.3	744.2	1604.6	1405.6	1307.0	1225.9
82.5°	72.3	75.1	89.3	91.5	94.3	127.7	337.0	1507.0	1400.2	1299.3	1187.5
85°	43.3	48.2	72.9	73.4	74.5	77.8	186.3	613.8	763.4	674.6	617.6
87.5°	15.3	19.7	36.2	30.1	38.4	31.8	81.7	205.5	253.2	240.6	213.2
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	880.1	880.1	881.2	880.7	880.7	880.7	880.7	879.6	879.6	877.9	879.0
5°	902.0	901.5	902.0	902.6	902.0	903.1	902.6	902.0	902.6	902.0	902.6
7.5°	937.1	934.4	938.2	936.0	935.5	938.7	937.1	938.7	939.3	938.7	938.2
10°	981.5	983.1	983.1	983.1	982.0	985.3	985.9	987.0	987.5	989.7	989.7
12.5°	1032.5	1033.0	1035.2	1034.6	1035.7	1039.6	1042.3	1042.9	1043.4	1045.1	1042.9
15°	1087.3	1088.3	1088.3	1093.3	1091.6	1097.1	1098.8	1098.8	1099.3	1105.9	1106.4
17.5°	1136.0	1136.0	1140.4	1140.4	1144.8	1145.9	1150.8	1151.4	1153.6	1159.6	1160.1
20°	1177.1	1179.3	1182.1	1185.3	1187.0	1190.3	1193.6	1196.9	1199.6	1204.5	1205.1
22.5°	1216.0	1218.2	1222.6	1224.8	1228.6	1230.8	1233.6	1237.4	1241.8	1248.4	1250.0
25°	1261.0	1263.2	1268.1	1271.4	1275.8	1279.1	1284.0	1288.9	1291.7	1298.2	1303.2
27.5°	1318.0	1324.5	1331.1	1332.8	1336.0	1343.7	1350.3	1356.9	1362.9	1366.2	1372.2
30°	1401.3	1401.3	1415.0	1415.0	1421.0	1428.1	1432.5	1439.6	1450.6	1453.9	1461.5
32.5°	1513.1	1515.8	1520.7	1535.5	1546.5	1549.8	1553.1	1563.5	1570.0	1578.3	1587.6
35°	1672.5	1675.3	1678.0	1692.3	1704.9	1708.1	1711.4	1718.0	1729.0	1743.2	1738.8
37.5°	1815.6	1817.2	1826.0	1841.9	1849.0	1857.8	1860.5	1872.6	1878.6	1891.7	1892.3
40°	1987.6	1983.8	1988.7	2006.8	2017.8	2017.2	2026.0	2047.9	2052.3	2058.3	2073.7
42.5°	2227.7	2213.4	2228.8	2234.8	2251.2	2261.6	2279.2	2294.0	2304.4	2327.4	2338.4
45°	2537.8	2523.0	2535.6	2538.4	2572.4	2582.8	2609.1	2628.8	2651.3	2677.6	2685.2
47.5°	2891.3	2863.9	2848.6	2865.5	2906.1	2923.1	2948.8	2967.5	2991.0	3004.7	3000.4
50°	3300.7	3234.9	3204.2	3195.4	3224.5	3248.6	3288.6	3297.4	3308.3	3307.8	3308.3
52.5°	3757.2	3688.7	3624.5	3580.2	3575.8	3608.1	3618.0	3620.2	3616.9	3592.2	3576.9
55°	4353.4	4348.5	4281.1	4189.0	4183.0	4179.1	4121.6	4114.5	4101.3	4063.5	4011.4
57.5°	5435.2	5490.0	5445.6	5443.4	5395.2	5363.4	5257.6	5205.0	5149.7	5047.2	4965.5
60°	6685.7	6765.2	6809.0	6828.2	6922.5	6922.5	6835.9	6761.3	6671.5	6515.3	6362.9
62.5°	7438.7	7508.3	7573.0	7674.3	7794.3	7847.5	7851.9	7785.6	7672.1	7494.0	7278.7
65°	7391.0	7442.5	7520.9	7640.4	7739.5	7834.9	7899.0	7878.7	7792.2	7614.1	7379.5
67.5°	6851.2	6926.3	7027.7	7137.8	7229.9	7319.8	7423.3	7431.0	7408.0	7238.7	7026.6
70°	6018.2	6114.7	6178.8	6317.5	6359.1	6450.1	6554.2	6604.1	6566.8	6436.4	6312.0
72.5°	4889.3	4965.5	4976.5	4916.2	4937.0	4959.5	4984.7	4868.0	4823.0	4648.8	4568.8
75°	2964.7	2864.4	2780.1	2696.2	2445.8	2357.0	2220.5	1951.5	1920.8	1736.1	1607.9
77.5°	1410.0	1367.8	1291.7	1164.0	994.1	831.3	689.9	560.6	512.4	422.0	359.5
80°	1180.4	1130.0	1061.5	966.7	847.8	729.4	617.6	521.7	425.3	346.3	276.7
82.5°	1082.9	995.2	898.7	817.1	733.2	652.7	577.6	491.0	440.1	355.1	289.9
85°	547.5	479.5	388.5	327.2	276.2	224.7	194.5	166.0	148.0	117.8	102.5
87.5°	183.6	150.2	111.8	94.8	85.5	73.4	67.4	64.1	62.5	55.3	49.3
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	879.0	879.0	879.0	879.0	878.5	878.5	878.5	878.5	878.5	878.5	879.0
5°	901.5	901.5	902.0	903.7	900.4	901.5	902.6	900.9	902.6	900.9	903.1
7.5°	937.6	939.3	938.2	940.4	939.3	942.6	940.4	938.7	939.8	939.8	940.4
10°	988.6	990.8	989.2	990.3	990.3	992.4	989.7	990.3	990.8	989.7	990.3
12.5°	1045.1	1046.2	1045.6	1048.9	1047.2	1048.9	1047.2	1049.4	1050.5	1051.6	1051.6
15°	1106.4	1107.5	1110.8	1110.3	1113.6	1112.5	1113.0	1110.3	1115.7	1112.5	1113.6
17.5°	1162.9	1162.3	1166.7	1168.4	1168.9	1169.5	1171.1	1168.9	1169.5	1171.1	1170.0
20°	1206.7	1210.6	1211.7	1216.0	1219.3	1220.4	1219.9	1221.5	1223.7	1221.5	1221.5
22.5°	1253.3	1258.8	1260.4	1263.2	1266.5	1267.0	1270.3	1271.9	1273.0	1272.5	1273.0
25°	1309.2	1313.0	1316.9	1322.3	1326.2	1326.7	1329.5	1331.7	1332.2	1331.7	1335.0
27.5°	1377.7	1382.6	1387.6	1394.1	1398.5	1399.6	1405.6	1405.6	1408.9	1410.6	1411.7
30°	1465.9	1467.6	1480.2	1486.8	1485.1	1492.8	1501.0	1500.5	1504.3	1505.4	1508.1
32.5°	1594.2	1594.2	1605.1	1613.3	1622.1	1619.4	1632.0	1629.8	1635.8	1639.1	1637.5
35°	1749.8	1755.3	1763.5	1768.4	1777.7	1782.7	1791.4	1796.4	1799.1	1798.6	1792.5
37.5°	1910.4	1919.1	1922.4	1934.5	1943.8	1952.0	1953.1	1947.6	1949.8	1938.9	1935.6
40°	2093.9	2106.6	2114.2	2132.3	2131.2	2141.6	2142.7	2126.8	2124.1	2109.8	2095.0
42.5°	2350.4	2368.0	2374.0	2387.7	2376.7	2381.7	2354.3	2347.7	2325.8	2302.7	2269.3
45°	2696.2	2687.4	2691.3	2687.4	2658.4	2637.0	2614.6	2582.2	2549.9	2505.5	2457.8
47.5°	3000.4	3004.7	2976.2	2958.2	2911.0	2880.9	2839.8	2783.3	2743.9	2684.2	2621.1
50°	3295.7	3247.0	3207.0	3165.3	3123.7	3068.3	3006.4	2956.5	2899.0	2824.4	2747.2
52.5°	3535.8	3472.7	3424.5	3365.3	3308.9	3247.5	3182.8	3110.5	3034.9	2960.4	2865.0
55°	3961.0	3869.5	3807.6	3704.0	3639.9	3553.8	3503.4	3409.7	3304.5	3205.9	3104.5
57.5°	4873.5	4736.5	4665.8	4607.1	4507.4	4366.0	4276.1	4122.1	3972.0	3866.8	3698.0
60°	6247.9	6108.7	5991.4	5852.7	5699.9	5508.1	5422.6	5241.2	5026.3	4852.6	4629.6
62.5°	7104.4	6912.1	6721.9	6527.3	6373.9	6223.8	6046.7	5863.7	5651.1	5414.9	5171.0
65°	7138.9	6908.2	6680.8	6482.4	6302.7	6107.6	5941.5	5755.8	5532.2	5288.8	5035.7
67.5°	6780.5	6522.4	6278.6	6061.0	5855.5	5674.6	5500.9	5326.1	5086.6	4882.8	4623.6
70°	6066.5	5830.8	5610.0	5362.3	5205.0	5001.7	4832.4	4648.2	4476.7	4286.0	4043.2
72.5°	4455.9	4278.3	4026.2	3921.0	3836.6	3621.3	3495.2	3479.9	3370.3	3141.7	2960.4
75°	1657.2	1410.6	1336.0	1380.4	1306.5	1331.1	1321.8	1269.2	1271.4	1232.5	1186.4
77.5°	324.4	301.4	283.3	288.3	268.0	259.2	277.8	272.4	262.5	265.2	260.9
80°	220.8	186.9	169.3	162.8	154.5	150.7	149.6	148.0	144.7	143.0	138.1
82.5°	217.6	161.7	127.7	109.6	103.0	99.7	97.0	96.4	95.4	94.8	96.4
85°	86.6	70.1	64.1	58.6	57.0	55.3	55.3	54.8	54.3	55.3	57.5
87.5°	42.2	35.6	32.3	29.6	28.5	27.9	27.9	28.5	29.0	31.2	35.6
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	877.9	878.5	877.4	877.9	877.4	876.3	875.7	877.4	876.8	876.3	876.3
5°	900.4	902.6	901.5	900.4	900.4	899.8	899.8	899.8	899.3	899.8	898.2
7.5°	939.3	938.7	938.7	937.6	936.5	937.6	937.1	935.5	936.0	934.9	933.3
10°	989.2	987.5	990.3	990.3	988.1	987.5	986.4	984.8	984.8	983.1	983.1
12.5°	1048.3	1046.7	1050.5	1047.8	1044.5	1044.0	1040.7	1039.6	1041.2	1040.7	1039.6
15°	1108.6	1109.2	1110.8	1110.3	1106.4	1106.4	1102.0	1102.6	1099.3	1098.2	1095.5
17.5°	1167.3	1167.8	1166.2	1166.2	1163.4	1161.8	1156.8	1157.4	1155.2	1150.8	1147.5
20°	1219.9	1219.3	1215.5	1218.8	1213.3	1212.2	1207.8	1203.4	1204.5	1200.1	1193.6
22.5°	1271.4	1270.3	1269.2	1267.5	1264.8	1263.7	1258.8	1258.2	1252.8	1246.2	1240.7
25°	1331.1	1330.6	1328.9	1329.5	1324.0	1324.5	1315.8	1313.6	1310.3	1303.2	1298.8
27.5°	1408.4	1408.4	1404.0	1402.4	1400.7	1398.5	1390.8	1385.4	1377.1	1368.9	1360.2
30°	1503.2	1502.1	1501.0	1496.6	1490.6	1487.3	1473.6	1464.8	1453.9	1438.5	1425.4
32.5°	1638.6	1629.2	1621.6	1611.7	1601.8	1591.4	1570.0	1555.3	1537.7	1513.1	1492.2
35°	1789.3	1773.4	1765.1	1744.9	1726.2	1705.4	1679.7	1649.5	1625.4	1593.1	1559.1
37.5°	1913.7	1901.6	1879.7	1856.7	1830.4	1790.9	1761.9	1729.5	1687.3	1651.7	1610.6
40°	2067.1	2039.7	2008.5	1970.1	1933.9	1889.5	1849.5	1803.0	1751.4	1699.9	1646.2
42.5°	2228.2	2186.0	2134.5	2090.1	2035.3	1977.2	1925.2	1862.1	1796.4	1727.3	1655.5
45°	2392.6	2340.6	2272.1	2209.0	2132.9	2060.0	1985.4	1899.4	1809.5	1717.5	1627.0
47.5°	2543.3	2467.1	2389.3	2304.4	2216.7	2123.0	2017.2	1904.3	1786.0	1664.9	1552.0
50°	2661.7	2566.3	2468.2	2370.1	2262.7	2141.1	2007.9	1860.5	1714.7	1569.5	1439.6
52.5°	2766.4	2659.5	2538.9	2417.3	2284.7	2135.0	1968.5	1794.7	1617.2	1456.6	1310.8
55°	2969.1	2834.9	2675.9	2519.2	2351.5	2163.0	1955.3	1742.7	1538.3	1363.4	1208.4
57.5°	3519.9	3338.5	3092.4	2874.9	2662.2	2387.7	2095.0	1833.1	1572.8	1366.2	1193.6
60°	4387.4	4092.0	3810.3	3478.8	3134.6	2758.1	2365.8	2012.8	1695.5	1436.3	1228.6
62.5°	4890.4	4578.6	4216.4	3814.7	3368.6	2909.9	2459.5	2047.4	1699.4	1417.2	1187.0
65°	4754.5	4441.1	4042.7	3631.7	3157.1	2688.0	2240.8	1845.2	1507.6	1246.7	1026.4
67.5°	4351.2	4023.5	3649.2	3193.3	2739.5	2304.9	1897.2	1524.6	1225.9	982.6	788.0
70°	3764.3	3472.7	3112.1	2691.8	2251.8	1861.0	1517.4	1181.5	928.9	705.8	552.4
72.5°	2793.8	2535.6	2310.4	1959.1	1636.9	1330.6	1050.5	822.0	604.5	457.0	351.8
75°	1172.7	1085.6	1048.9	920.1	800.1	656.0	493.8	393.5	318.9	271.3	215.4
77.5°	284.4	284.4	267.4	250.4	230.2	208.2	184.1	164.4	154.5	145.8	138.6
80°	138.1	137.0	132.6	132.1	128.2	123.3	120.6	116.7	115.1	112.9	111.8
82.5°	97.0	96.4	94.8	97.0	96.4	98.6	99.7	100.3	100.3	100.8	101.4
85°	61.4	63.6	68.0	73.4	78.4	84.4	89.9	94.3	97.5	100.3	102.5
87.5°	38.9	44.4	47.7	55.9	64.1	73.4	83.8	88.2	92.1	92.6	89.3
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9	871.9
2.5°	876.3	875.7	876.8	875.7	875.7	875.2	873.5	871.9	870.2	869.7	868.0
5°	897.6	897.6	898.7	896.5	897.1	894.9	890.0	884.5	879.6	875.2	870.2
7.5°	933.8	932.2	932.7	932.2	931.1	926.7	915.7	902.0	888.9	875.2	864.2
10°	982.0	978.7	978.7	977.7	976.0	970.0	947.0	919.6	892.2	867.5	849.4
12.5°	1035.7	1036.3	1031.9	1029.2	1026.4	1013.8	979.3	935.5	892.2	852.7	823.7
15°	1091.6	1091.1	1086.2	1084.5	1078.5	1059.9	1007.8	943.7	881.7	823.7	780.4
17.5°	1142.1	1139.9	1134.9	1131.6	1125.1	1100.4	1027.0	939.8	854.3	778.2	723.9
20°	1188.1	1185.3	1181.0	1174.9	1168.4	1132.7	1034.1	920.1	811.1	723.9	669.1
22.5°	1235.8	1229.7	1224.8	1216.6	1209.5	1161.8	1029.2	885.0	761.7	663.6	605.0
25°	1288.9	1281.8	1271.4	1261.5	1250.6	1185.3	1015.5	841.2	702.5	598.4	539.2
27.5°	1346.5	1336.0	1322.3	1309.7	1292.2	1202.9	991.9	792.4	637.9	533.8	472.4
30°	1407.3	1388.1	1371.1	1351.9	1329.5	1211.1	957.9	732.1	566.6	468.0	406.6
32.5°	1466.5	1440.7	1415.5	1387.6	1356.9	1207.8	909.7	660.9	495.4	406.6	355.1
35°	1526.8	1489.5	1454.4	1416.6	1379.3	1191.4	843.4	582.0	428.0	355.7	318.4
37.5°	1567.9	1521.3	1474.7	1429.2	1384.3	1155.8	755.2	493.8	367.2	318.9	292.1
40°	1588.7	1531.7	1474.7	1418.3	1362.9	1096.6	652.1	413.2	323.9	291.5	272.4
42.5°	1582.7	1512.0	1441.3	1374.4	1306.5	1002.3	540.3	346.9	293.7	270.2	253.2
45°	1532.8	1448.4	1367.8	1297.1	1212.2	881.2	443.9	305.8	270.7	252.6	236.7
47.5°	1439.1	1344.8	1246.2	1166.2	1086.7	740.9	369.4	280.0	250.4	235.6	219.8
50°	1319.6	1210.6	1111.9	1025.3	947.5	609.9	318.4	258.1	234.0	221.4	204.4
52.5°	1188.1	1070.8	980.9	890.0	813.8	509.1	282.8	234.0	218.1	205.0	191.3
55°	1079.0	970.5	879.0	787.5	710.8	445.5	253.2	215.4	203.3	189.6	178.7
57.5°	1050.0	926.1	826.4	739.8	660.9	406.6	231.8	198.4	190.2	179.7	167.7
60°	1062.0	925.6	813.8	719.0	636.2	375.4	215.9	186.9	180.3	171.0	158.4
62.5°	1018.8	874.6	761.7	660.9	582.5	335.9	204.4	181.4	177.0	164.4	150.2
65°	868.0	736.0	627.5	540.3	472.9	282.8	195.1	186.3	181.9	160.0	144.7
67.5°	660.9	550.8	463.6	398.4	349.6	234.0	192.9	202.8	194.0	162.2	143.0
70°	457.0	373.7	317.8	278.4	247.7	197.3	200.0	220.8	208.2	169.3	152.3
72.5°	289.9	242.2	214.8	200.0	185.2	166.6	198.4	218.7	201.7	170.4	152.3
75°	185.8	166.0	156.7	151.3	146.9	145.2	174.8	179.7	162.2	148.0	141.9
77.5°	131.5	128.2	126.6	126.0	126.6	130.4	144.7	135.4	117.8	118.4	121.7
80°	111.2	111.2	110.2	110.7	111.8	113.4	115.6	99.7	90.4	97.5	108.5
82.5°	101.9	103.6	104.7	105.8	107.4	105.2	98.1	75.6	72.9	94.8	106.3
85°	103.6	103.6	104.1	105.2	105.8	94.8	81.7	57.0	55.9	106.3	100.3
87.5°	88.8	87.7	83.8	81.1	77.3	65.2	54.3	31.8	32.9	65.8	70.1
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):

	175°	180°
0°	871.9	871.9
2.5°	867.5	867.5
5°	867.5	867.5
7.5°	860.4	858.2
10°	839.6	836.8
12.5°	807.8	805.0
15°	759.0	755.7
17.5°	698.2	692.7
20°	634.6	626.9
22.5°	571.0	565.0
25°	505.8	500.3
27.5°	441.7	436.2
30°	382.5	380.3
32.5°	338.7	336.5
35°	306.3	305.2
37.5°	284.4	283.3
40°	265.2	264.1
42.5°	247.7	246.1
45°	230.2	230.7
47.5°	212.6	212.1
50°	197.3	197.3
52.5°	184.7	184.1
55°	173.2	172.6
57.5°	161.7	161.1
60°	151.8	150.2
62.5°	142.5	141.4
65°	136.5	135.9
67.5°	132.1	130.4
70°	131.0	126.6
72.5°	127.7	122.2
75°	120.0	117.3
77.5°	105.8	102.5
80°	81.7	75.6
82.5°	68.5	59.2
85°	50.4	46.6
87.5°	36.7	29.0
90°	0.0	0.0

(END OF REPORT)