

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: P145148

Luminaire Tested: **LDRL-SL3-E04-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145148
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33702)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: LDRL-SL3-E04-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10022.2 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

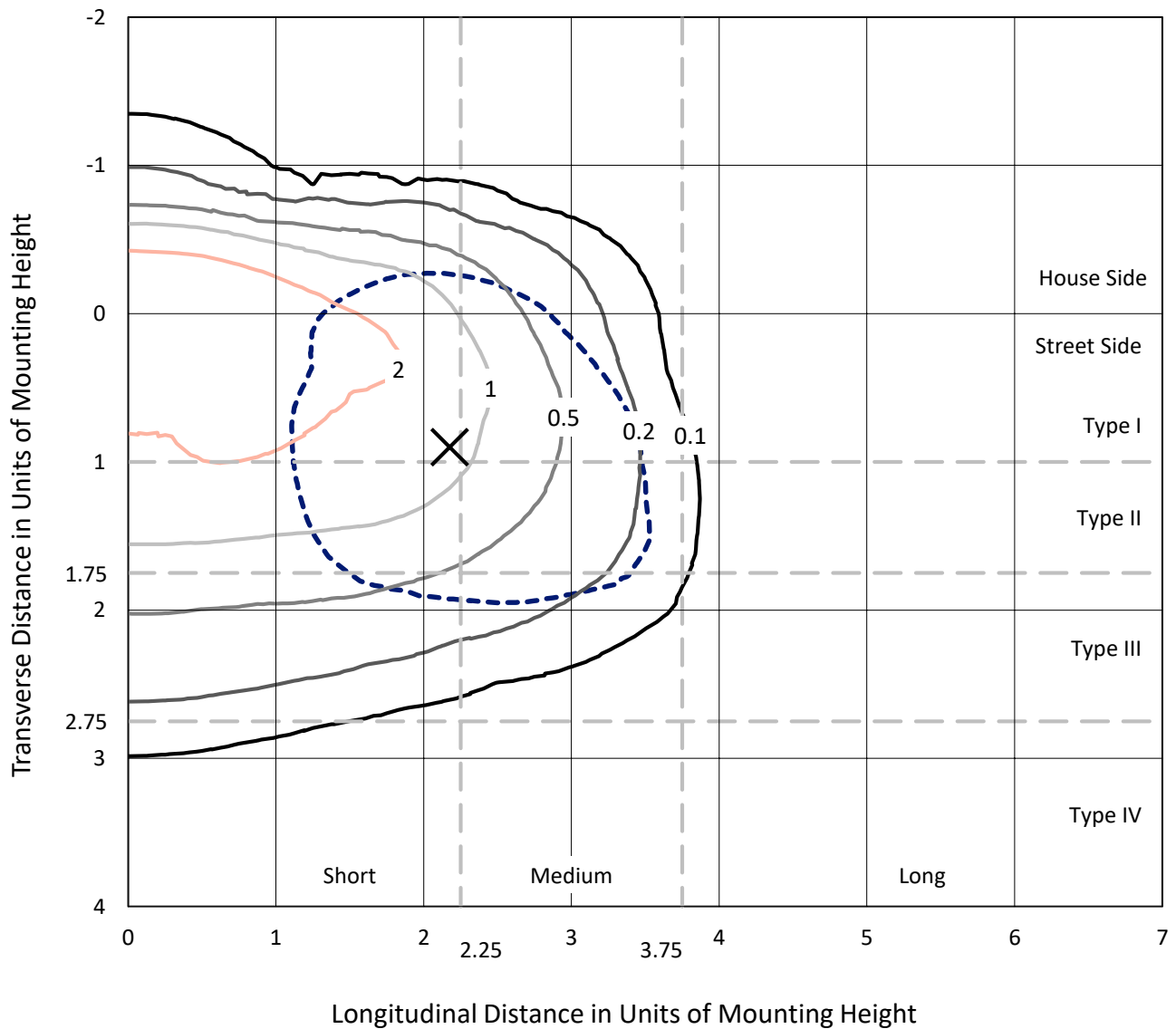
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

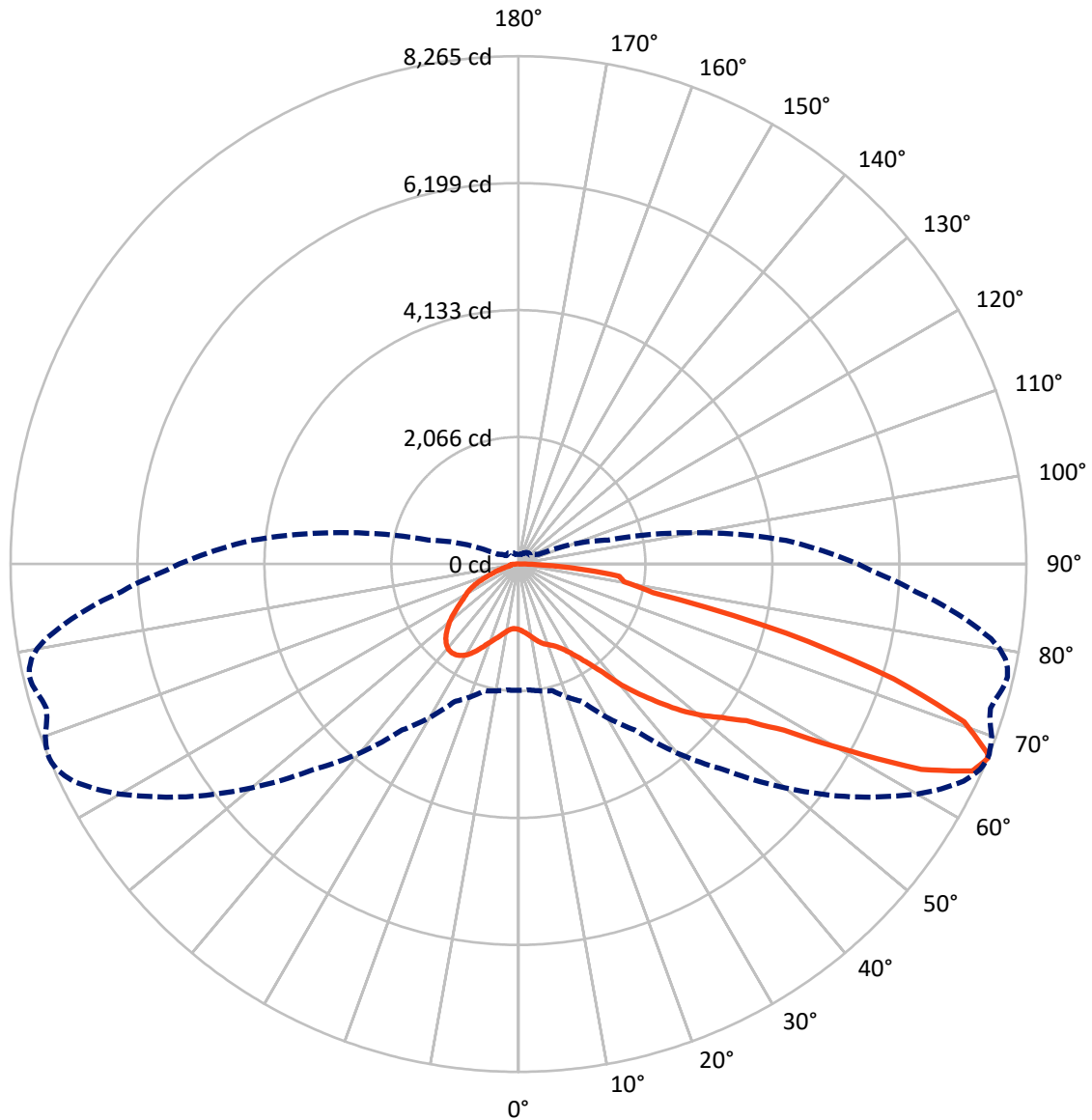
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2373.2	0.0	2373.2
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	7649.0	0.0	7649.0
	% Fixture	76.3	0.0	76.3
Total	Lumens	10022.2	0.0	10022.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	1.1
10°-20°	364.4	3.6
20°-30°	648.7	6.5
30°-40°	944.9	9.4
40°-50°	1455.9	14.5
50°-60°	2132.1	21.3
60°-70°	2831.3	28.2
70°-80°	1334.6	13.3
80°-90°	204.0	2.0
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°	10022.2	100.0
0°-180°	10022.2	100.0



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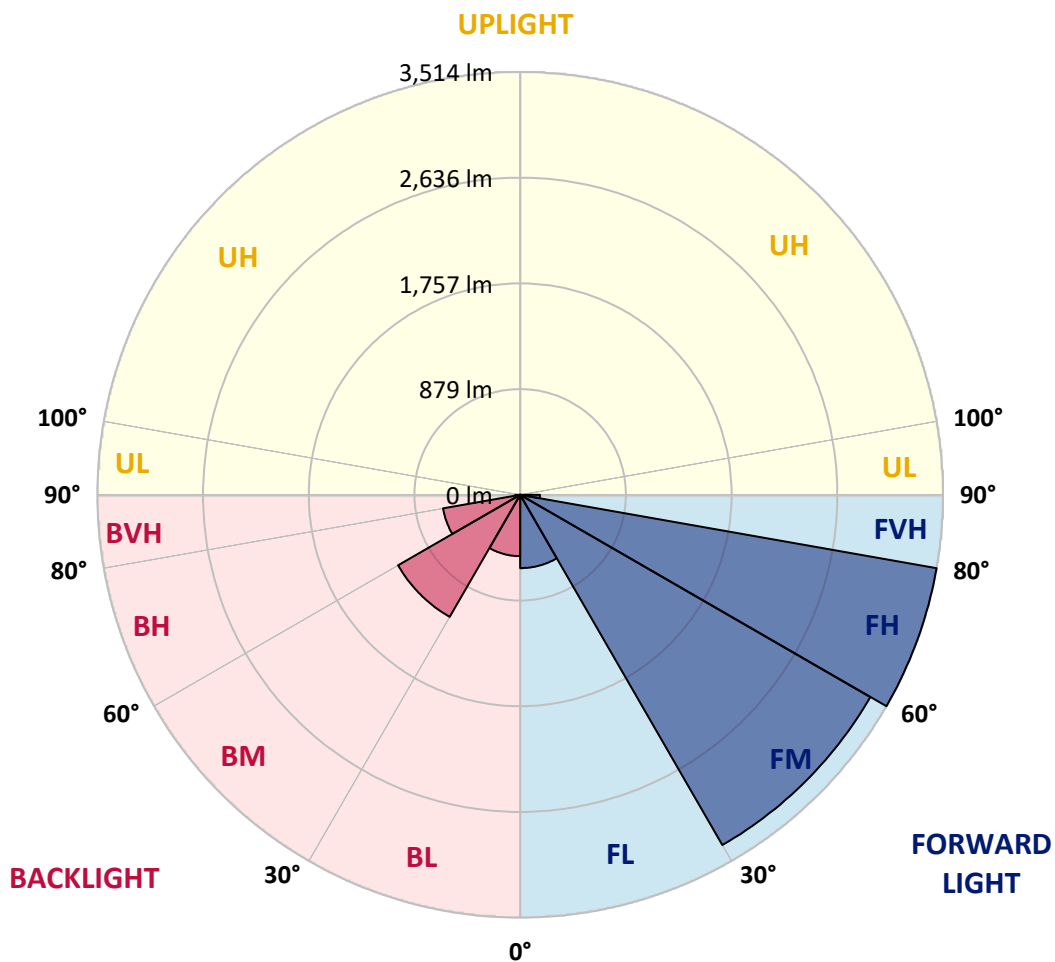
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	609.3	6.1			
FM	(30°-60°)	3361.0	33.5			
FH	(60°-80°)	3514.3	35.1			G2/5000
FVH	(80°-90°)	164.4	1.6			G2/225
BL	(0°-30°)	510.2	5.1	B2/1000		
BM	(30°-60°)	1171.9	11.7	B2/2500		
BH	(60°-80°)	651.5	6.5	B2/1000		G2/1000
BVH	(80°-90°)	39.6	0.4			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1119.5	1114.7	1115.4	1117.4	1110.7	1107.3	1099.9	1095.2	1094.5	1093.8	1091.1
5°	1185.0	1180.2	1182.3	1176.9	1164.0	1155.3	1139.7	1131.6	1130.3	1128.9	1125.5
7.5°	1253.2	1247.1	1240.3	1234.3	1220.1	1205.9	1185.6	1173.5	1172.1	1170.1	1168.1
10°	1334.2	1325.4	1320.0	1301.1	1276.8	1257.2	1237.0	1224.1	1223.4	1221.4	1217.4
12.5°	1425.3	1415.9	1405.8	1380.8	1343.0	1313.9	1290.3	1282.9	1276.8	1277.5	1273.4
15°	1515.8	1505.7	1492.2	1460.4	1410.5	1367.3	1336.9	1326.1	1326.8	1323.4	1325.4
17.5°	1592.1	1583.3	1563.7	1523.2	1465.2	1405.8	1367.3	1362.5	1363.9	1363.2	1365.2
20°	1642.1	1636.7	1607.0	1558.3	1492.9	1427.4	1388.2	1388.2	1388.9	1391.6	1396.3
22.5°	1672.5	1664.4	1625.2	1557.0	1492.2	1437.5	1407.1	1413.9	1417.9	1419.9	1427.4
25°	1689.3	1679.2	1625.9	1535.4	1469.2	1444.9	1435.5	1452.3	1459.1	1462.5	1474.6
27.5°	1689.3	1677.2	1617.1	1508.4	1442.9	1467.2	1489.5	1518.5	1523.2	1533.4	1547.5
30°	1670.4	1661.0	1603.6	1488.1	1436.1	1509.1	1576.6	1609.7	1621.1	1632.6	1650.8
32.5°	1650.2	1642.1	1596.8	1498.9	1473.9	1596.8	1709.6	1754.8	1761.6	1771.0	1789.9
35°	1648.8	1646.1	1626.5	1567.8	1588.1	1757.5	1910.1	1941.2	1960.1	1964.8	1972.9
37.5°	1663.0	1668.4	1685.3	1679.2	1752.1	1996.5	2172.8	2234.9	2249.7	2241.6	2249.1
40°	1696.1	1709.6	1772.4	1850.0	2002.6	2285.5	2530.6	2602.2	2618.4	2613.7	2611.6
42.5°	1800.7	1819.0	1911.5	2077.6	2263.2	2584.6	2862.8	2939.8	2945.2	2947.9	2930.3
45°	1964.8	1974.9	2097.8	2309.8	2545.5	2906.7	3194.3	3280.1	3276.7	3263.2	3250.4
47.5°	2151.2	2172.1	2319.3	2575.9	2837.2	3204.5	3529.9	3613.6	3621.1	3608.9	3585.3
50°	2320.6	2336.8	2502.9	2807.5	3094.4	3452.3	3812.8	3897.2	3895.9	3902.6	3909.4
52.5°	2454.3	2469.2	2627.2	2962.1	3283.5	3660.2	4026.2	4130.2	4146.4	4157.2	4170.7
55°	2523.2	2538.7	2684.6	3026.2	3398.2	3863.5	4272.6	4421.8	4449.5	4473.8	4496.1
57.5°	2524.5	2544.8	2678.5	3021.5	3457.7	4045.1	4598.7	4866.8	4906.0	4968.1	5044.4
60°	2483.4	2511.7	2631.9	2977.6	3525.9	4275.3	5136.2	5649.3	5726.3	5835.0	5932.9
62.5°	2376.0	2404.4	2511.7	2866.2	3605.5	4570.4	5912.7	6664.8	6828.9	6949.1	7142.9
65°	2206.5	2233.5	2324.0	2681.9	3542.1	4803.3	6491.3	7393.4	7560.8	7711.4	7938.9
67°	2055.3	2058.0	2134.3	2470.5	3294.9	4731.1	6607.4	7490.6	7645.2	7797.8	8061.8
67.5°	2001.9	2016.8	2076.2	2400.3	3201.1	4677.7	6561.5	7437.9	7587.8	7750.5	8019.9
70°	1618.4	1622.5	1679.9	1914.8	2540.1	3878.3	5893.8	6766.1	6868.7	7107.1	7371.8
72.5°	987.1	980.4	998.6	1172.8	1671.8	2685.9	4718.9	5570.3	5710.8	5914.0	6092.9
75°	543.5	575.9	598.2	719.1	939.2	1579.3	3213.2	4030.2	4236.2	4357.0	4392.8
77.5°	332.2	329.5	339.6	463.9	770.4	1080.3	1775.1	2364.5	2479.3	2513.7	2380.7
80°	158.0	164.1	162.0	191.1	373.4	911.5	1241.0	1518.5	1576.6	1609.7	1652.9
82.5°	86.4	89.8	102.0	114.1	147.2	392.3	1070.9	1400.3	1439.5	1496.2	1559.7
85°	54.0	56.7	78.3	82.4	90.5	120.9	446.3	818.3	851.4	964.2	1000.0
87.5°	22.3	24.3	42.5	38.5	45.9	42.5	135.0	208.0	220.8	235.0	260.6
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°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1091.8	1091.1	1088.4	1087.7	1089.1	1089.1	1087.7	1085.7	1085.0	1084.4	1083.0
5°	1124.2	1122.8	1120.8	1119.5	1118.8	1118.8	1116.8	1114.7	1112.7	1110.0	1109.3
7.5°	1162.7	1162.7	1162.0	1160.0	1158.0	1155.3	1153.2	1151.2	1149.2	1147.8	1145.8
10°	1213.3	1216.0	1211.3	1209.9	1209.3	1205.2	1204.5	1202.5	1201.2	1197.8	1197.8
12.5°	1273.4	1270.7	1270.0	1267.3	1267.3	1265.3	1264.6	1264.0	1262.6	1259.9	1259.2
15°	1323.4	1323.4	1322.7	1321.4	1322.7	1321.4	1319.3	1320.7	1318.7	1319.3	1317.3
17.5°	1363.9	1366.6	1365.9	1366.6	1365.9	1365.9	1367.3	1367.3	1368.6	1365.9	1366.6
20°	1397.6	1401.7	1403.7	1402.4	1403.7	1404.4	1407.8	1409.1	1411.2	1412.5	1412.5
22.5°	1432.8	1438.2	1442.2	1442.2	1444.9	1447.6	1453.7	1455.0	1459.8	1459.1	1462.5
25°	1482.0	1490.8	1493.5	1497.6	1501.0	1505.7	1513.1	1516.5	1518.5	1523.2	1528.6
27.5°	1557.7	1568.5	1570.5	1575.2	1584.0	1586.7	1594.8	1598.2	1605.6	1615.7	1617.8
30°	1661.0	1674.5	1675.2	1680.6	1690.7	1694.1	1700.8	1709.6	1715.7	1725.8	1726.5
32.5°	1801.4	1814.9	1812.9	1823.0	1822.3	1832.5	1830.4	1844.0	1849.4	1854.8	1869.6
35°	1988.4	1987.1	1997.2	2000.6	1998.6	2006.7	2005.3	2011.4	2016.8	2016.8	2033.0
37.5°	2257.8	2255.8	2254.5	2240.3	2236.9	2237.6	2234.9	2240.3	2231.5	2231.5	2249.1
40°	2619.1	2606.9	2597.5	2588.0	2578.6	2565.7	2554.9	2552.2	2537.4	2536.7	2529.9
42.5°	2933.0	2921.6	2914.8	2896.6	2887.1	2885.1	2858.8	2851.3	2847.3	2850.0	2843.2
45°	3262.5	3250.4	3224.7	3216.6	3213.9	3199.7	3195.7	3177.5	3172.1	3181.5	3178.1
47.5°	3602.2	3584.6	3570.4	3561.0	3557.6	3545.4	3527.9	3542.7	3535.3	3529.9	3519.8
50°	3907.3	3887.8	3887.8	3870.9	3873.6	3865.5	3847.2	3851.3	3830.4	3838.5	3833.1
52.5°	4163.2	4164.6	4171.3	4152.4	4155.8	4155.8	4149.7	4130.2	4135.6	4132.9	4145.7
55°	4488.7	4511.0	4498.8	4502.2	4506.2	4525.1	4538.6	4527.2	4508.3	4523.1	4564.3
57.5°	5057.9	5078.1	5090.3	5099.7	5115.3	5124.0	5197.0	5207.1	5185.5	5230.0	5321.9
60°	6047.7	6072.0	6108.5	6156.4	6166.5	6228.0	6265.8	6310.4	6326.6	6365.0	6463.6
62.5°	7238.1	7292.8	7299.5	7360.3	7407.5	7350.1	7365.0	7419.7	7357.6	7442.6	7446.7
65°	8017.2	8096.9	8099.6	8121.9	8139.4	8085.4	8061.1	8036.8	7978.1	7974.7	8033.4
67°	8150.9	8223.8	8254.2	8265.0	8262.3	8234.7	8194.8	8124.6	8067.9	8035.5	8059.8
67.5°	8113.1	8184.7	8227.2	8237.4	8238.0	8211.0	8174.6	8098.3	8044.9	8008.5	8034.1
70°	7491.9	7659.4	7732.3	7694.5	7716.1	7716.1	7714.8	7644.5	7618.2	7583.1	7569.6
72.5°	6229.3	6345.5	6438.0	6388.7	6394.8	6440.7	6429.9	6437.3	6361.7	6353.6	6228.7
75°	4462.3	4499.5	4468.4	4503.5	4314.5	4247.0	4132.2	3964.7	3920.8	3851.3	3643.3
77.5°	2370.6	2328.7	2245.7	2238.9	2161.3	2101.2	2026.9	1978.3	1855.4	1787.2	1631.3
80°	1674.5	1694.7	1726.5	1745.4	1762.9	1776.4	1748.7	1671.1	1568.5	1453.7	1345.0
82.5°	1599.5	1627.2	1646.1	1655.6	1648.8	1627.2	1563.7	1489.5	1352.4	1253.2	1135.7
85°	1008.7	1031.0	992.5	984.4	1001.3	864.9	790.0	729.2	590.8	549.6	485.5
87.5°	270.8	285.6	286.3	277.5	272.1	239.7	212.0	187.7	155.3	145.8	118.2
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1083.0	1082.3	1082.3	1080.3	1079.0	1078.3	1077.6	1075.6	1074.2	1074.2	1073.6
5°	1108.7	1107.3	1105.3	1104.6	1101.9	1100.6	1097.9	1096.5	1094.5	1093.1	1092.5
7.5°	1145.1	1141.8	1137.7	1138.4	1134.3	1132.3	1130.9	1128.2	1126.2	1124.2	1123.5
10°	1193.7	1193.1	1189.0	1190.4	1182.9	1186.3	1179.6	1180.2	1176.2	1172.1	1171.5
12.5°	1255.9	1255.2	1251.1	1246.4	1245.1	1245.7	1241.7	1242.4	1237.6	1236.3	1234.9
15°	1315.3	1313.9	1311.9	1308.5	1306.5	1305.8	1304.5	1303.1	1299.1	1299.1	1294.3
17.5°	1366.6	1367.3	1364.6	1361.9	1360.5	1358.5	1357.8	1357.8	1354.4	1351.1	1351.7
20°	1411.8	1413.2	1413.2	1411.2	1411.8	1410.5	1409.8	1411.2	1407.8	1406.4	1404.4
22.5°	1462.5	1462.5	1463.1	1464.5	1466.5	1467.2	1467.2	1465.8	1463.8	1463.1	1459.1
25°	1532.7	1530.0	1533.4	1534.7	1534.7	1538.1	1536.7	1537.4	1538.1	1536.1	1534.0
27.5°	1621.1	1618.4	1625.2	1629.9	1629.2	1631.3	1635.3	1630.6	1633.3	1635.3	1630.6
30°	1729.8	1736.6	1741.3	1744.7	1743.3	1749.4	1751.4	1750.8	1748.7	1752.1	1752.1
32.5°	1868.3	1864.9	1877.0	1884.5	1885.1	1883.8	1887.2	1891.2	1887.8	1893.2	1890.5
35°	2033.0	2035.0	2037.7	2045.8	2049.2	2043.8	2049.2	2053.9	2052.6	2053.3	2056.0
37.5°	2245.7	2249.1	2246.4	2247.0	2245.7	2271.3	2275.4	2279.5	2274.7	2270.7	2282.8
40°	2540.8	2540.8	2540.1	2548.9	2534.0	2550.2	2545.5	2557.0	2569.1	2562.4	2580.6
42.5°	2831.1	2847.3	2848.6	2835.8	2846.6	2864.2	2864.2	2871.6	2882.4	2871.6	2889.1
45°	3164.0	3184.2	3180.8	3202.4	3186.2	3206.5	3209.9	3200.4	3224.0	3226.7	3220.0
47.5°	3527.2	3531.3	3531.9	3539.4	3542.7	3558.9	3558.3	3575.8	3570.4	3543.4	3552.9
50°	3838.5	3848.6	3854.0	3858.7	3875.6	3887.1	3902.6	3905.3	3901.3	3893.2	3885.7
52.5°	4149.7	4174.0	4189.6	4231.4	4257.8	4278.7	4304.4	4313.8	4309.1	4307.1	4277.3
55°	4566.3	4624.4	4714.2	4772.3	4835.7	4872.9	4902.6	4917.4	4906.6	4912.0	4850.6
57.5°	5350.9	5487.3	5565.6	5664.9	5776.9	5823.5	5836.4	5889.0	5831.0	5772.9	5726.3
60°	6517.0	6642.5	6785.0	6887.0	6924.8	7053.7	6993.0	6924.8	6862.7	6742.5	6606.8
62.5°	7569.6	7731.6	7804.6	7899.8	7874.1	7863.3	7822.8	7714.1	7581.1	7402.1	7221.2
65°	8088.8	8180.0	8225.2	8256.3	8227.2	8152.3	8018.6	7857.9	7667.5	7435.9	7198.2
67°	8109.7	8151.6	8166.5	8136.7	8071.9	7955.1	7786.3	7558.8	7324.5	7059.1	6791.8
67.5°	8075.3	8103.0	8110.4	8063.8	7986.9	7860.6	7680.3	7437.2	7188.1	6912.6	6643.9
70°	7605.4	7585.1	7519.6	7455.5	7215.1	7045.6	6731.7	6472.4	6126.7	5873.5	5586.5
72.5°	6178.7	6086.2	6022.7	5739.1	5448.8	5280.7	4943.1	4633.2	4317.9	4076.8	3900.6
75°	3468.5	3400.9	3224.7	3074.8	2835.1	2615.7	2458.4	2261.2	2072.2	1960.1	1877.7
77.5°	1567.1	1374.0	1241.0	1072.9	866.9	696.8	517.2	478.0	407.8	390.3	351.8
80°	1222.8	1084.4	910.2	717.7	506.4	340.3	249.8	212.0	199.2	191.1	187.0
82.5°	1020.2	840.6	707.6	502.3	321.4	216.1	162.7	147.2	137.7	131.0	124.9
85°	436.2	345.0	284.3	203.2	144.5	114.1	99.9	91.2	82.4	74.9	70.2
87.5°	102.0	78.3	71.6	60.8	57.4	56.7	56.0	53.3	50.0	45.9	41.2
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1	1066.1
2.5°	1072.9	1072.2	1070.9	1068.8	1068.8	1066.1	1057.4	1051.3	1044.5	1040.5	1036.4
5°	1091.1	1090.4	1087.1	1085.0	1083.7	1078.3	1063.4	1052.0	1039.8	1031.0	1024.3
7.5°	1121.5	1119.5	1116.8	1115.4	1111.4	1104.6	1083.0	1066.8	1049.2	1035.1	1023.6
10°	1170.8	1167.4	1163.4	1159.3	1160.7	1149.9	1124.9	1101.2	1075.6	1053.3	1037.8
12.5°	1230.9	1230.9	1228.9	1226.2	1221.4	1209.3	1175.5	1147.8	1116.8	1089.1	1077.6
15°	1294.3	1291.0	1287.6	1283.5	1282.9	1266.7	1236.3	1204.5	1172.1	1148.5	1135.0
17.5°	1346.3	1347.7	1343.0	1341.6	1340.3	1324.1	1291.6	1263.3	1239.7	1214.7	1193.1
20°	1401.7	1399.0	1397.6	1395.6	1394.9	1381.4	1355.8	1338.2	1317.3	1279.5	1222.8
22.5°	1461.1	1457.7	1459.1	1455.0	1454.4	1444.9	1426.0	1420.6	1389.5	1309.9	1211.3
25°	1538.1	1532.0	1534.0	1534.0	1534.7	1525.9	1523.9	1514.5	1436.1	1302.4	1165.4
27.5°	1629.9	1632.6	1632.6	1631.9	1627.2	1629.9	1639.4	1607.0	1452.3	1263.3	1096.5
30°	1749.4	1750.8	1752.1	1756.9	1746.7	1764.3	1775.8	1672.5	1440.2	1209.3	1010.1
32.5°	1894.6	1889.2	1891.9	1894.6	1898.0	1916.2	1909.4	1705.5	1404.4	1135.7	902.7
35°	2054.6	2064.7	2067.4	2073.5	2080.3	2108.0	2030.3	1712.3	1349.7	1037.1	765.7
37.5°	2293.0	2309.2	2309.2	2330.8	2317.9	2351.7	2138.3	1696.1	1266.7	900.0	611.0
40°	2593.4	2600.8	2608.3	2611.0	2604.2	2600.2	2209.2	1656.2	1149.9	727.9	447.0
42.5°	2900.0	2897.3	2897.9	2902.7	2884.4	2808.1	2253.1	1586.7	1004.7	543.5	320.7
45°	3230.1	3218.6	3215.3	3205.8	3189.6	3028.9	2278.1	1488.8	813.6	382.2	251.8
47.5°	3551.5	3537.3	3515.7	3489.4	3458.3	3206.5	2275.4	1361.9	623.9	273.5	222.1
50°	3881.0	3856.0	3809.4	3783.8	3731.1	3382.7	2259.9	1220.7	449.0	226.2	208.0
52.5°	4257.8	4213.2	4170.0	4118.7	4031.6	3599.5	2236.2	1062.1	327.5	207.3	198.5
55°	4819.5	4746.6	4675.7	4569.0	4484.6	3889.8	2196.4	891.3	258.6	199.9	193.1
57.5°	5594.0	5469.7	5379.9	5236.1	5101.1	4291.5	2153.9	736.0	230.9	197.8	190.4
60°	6465.6	6278.6	6111.2	5934.3	5780.3	4793.2	2131.6	614.4	224.8	199.9	191.1
62.5°	7012.6	6791.8	6582.5	6366.4	6144.9	5032.9	2035.0	530.7	227.5	208.6	196.5
65°	6943.7	6699.9	6472.4	6209.1	6000.4	4806.7	1789.3	449.0	232.3	224.2	211.3
67°	6479.1	6242.8	5983.6	5725.6	5523.1	4376.6	1510.4	378.1	237.7	241.7	227.5
67.5°	6354.9	6088.9	5827.6	5590.6	5371.2	4243.6	1437.5	360.6	239.0	246.4	232.9
70°	5299.6	5088.9	4783.1	4607.5	4448.8	3440.1	1072.2	280.2	243.1	267.4	258.6
72.5°	3708.2	3504.3	3344.2	3248.4	3155.9	2499.6	754.2	223.5	237.0	278.9	270.1
75°	1873.0	1826.4	1770.4	1739.3	1740.6	1453.0	454.4	190.4	222.8	267.4	245.1
77.5°	370.0	360.6	364.6	399.0	393.0	447.7	225.5	161.4	189.7	205.9	176.2
80°	178.9	172.8	167.4	166.1	162.7	156.0	141.8	134.4	153.9	135.7	116.8
82.5°	116.1	109.4	106.7	101.3	102.0	110.7	123.6	129.0	124.9	93.9	79.0
85°	65.5	64.8	63.5	64.8	67.5	88.5	132.3	120.9	100.6	66.2	59.4
87.5°	39.2	37.1	37.8	38.5	39.8	65.5	104.7	87.1	64.1	34.4	35.1
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):

	155°	165°	175°	180°
0°	1066.1	1066.1	1066.1	1066.1
2.5°	1035.7	1033.0	1033.0	1032.4
5°	1018.9	1014.8	1014.1	1014.1
7.5°	1016.2	1010.8	1010.1	1008.1
10°	1028.3	1026.3	1027.0	1024.9
12.5°	1066.8	1069.5	1072.2	1072.2
15°	1125.5	1123.5	1126.9	1123.5
17.5°	1168.8	1151.2	1147.2	1145.1
20°	1170.1	1133.6	1121.5	1119.5
22.5°	1128.2	1074.2	1054.0	1050.6
25°	1057.4	989.2	963.5	960.8
27.5°	968.2	891.9	854.1	852.8
30°	860.9	770.4	722.5	715.0
32.5°	729.9	622.5	571.9	555.7
35°	578.6	468.6	421.3	420.0
37.5°	432.1	346.4	316.0	314.6
40°	316.7	272.1	260.6	258.6
42.5°	258.6	240.4	235.6	233.6
45°	231.6	224.2	221.5	219.4
47.5°	215.4	210.7	208.6	208.6
50°	202.6	201.2	199.9	199.9
52.5°	193.8	193.1	191.8	191.1
55°	186.4	183.7	184.3	183.7
57.5°	181.6	177.6	177.6	177.6
60°	178.9	171.5	171.5	172.2
62.5°	179.6	168.1	167.4	167.4
65°	185.0	166.1	162.0	162.7
67°	191.8	164.1	156.0	155.3
67.5°	193.8	162.7	153.9	153.3
70°	201.9	158.7	143.8	142.5
72.5°	203.2	152.6	133.7	132.3
75°	189.1	144.5	125.6	122.2
77.5°	147.2	124.2	113.4	113.4
80°	103.3	95.2	81.0	80.3
82.5°	75.6	71.6	59.4	58.1
85°	55.4	52.0	43.9	43.9
87.5°	34.4	33.1	28.4	27.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)