

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: P145151

Luminaire Tested: **LDRL-SL3-E04-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145151
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12184.8 lumens
Efficiency: N/A
Efficacy: 125.4 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

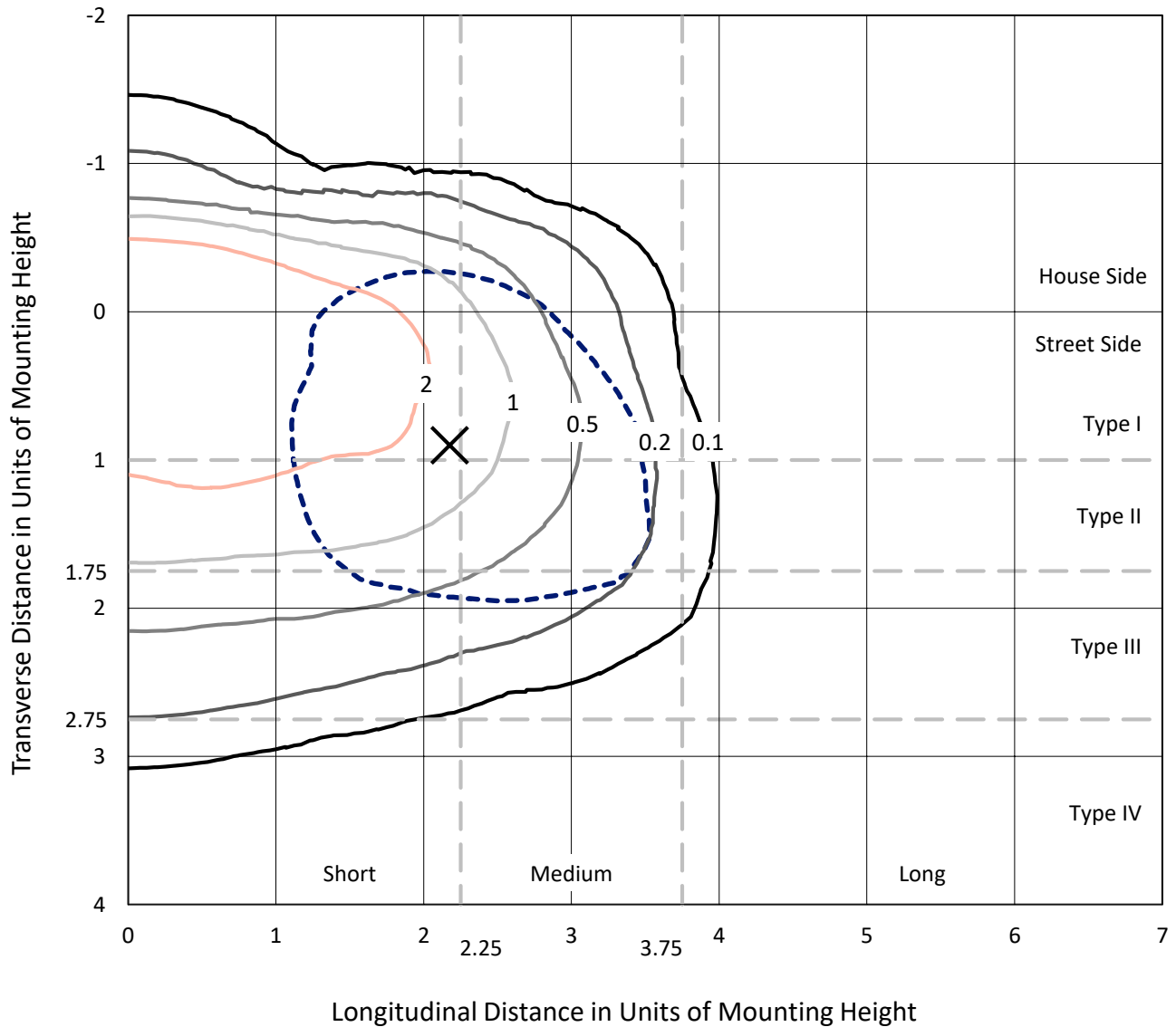
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

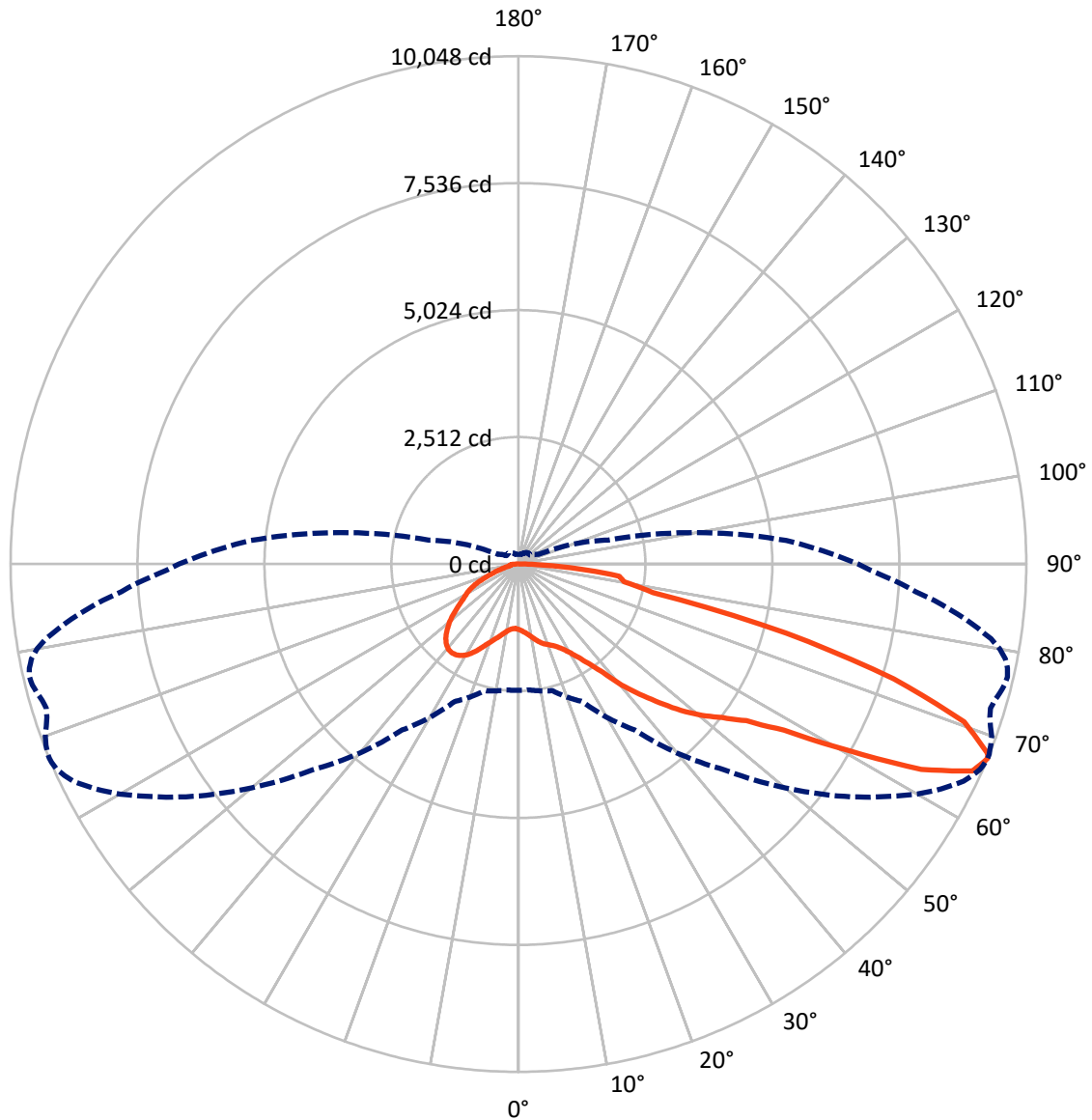
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.1 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	2885.3	0.0	2885.3
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	9299.5	0.0	9299.5
	% Fixture	76.3	0.0	76.3
Total	Lumens	12184.8	0.0	12184.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.4	1.1
10°-20°	443.0	3.6
20°-30°	788.6	6.5
30°-40°	1148.8	9.4
40°-50°	1770.0	14.5
50°-60°	2592.2	21.3
60°-70°	3442.2	28.3
70°-80°	1622.6	13.3
80°-90°	248.0	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°	12184.8	100.0
0°-180°	12184.8	100.0



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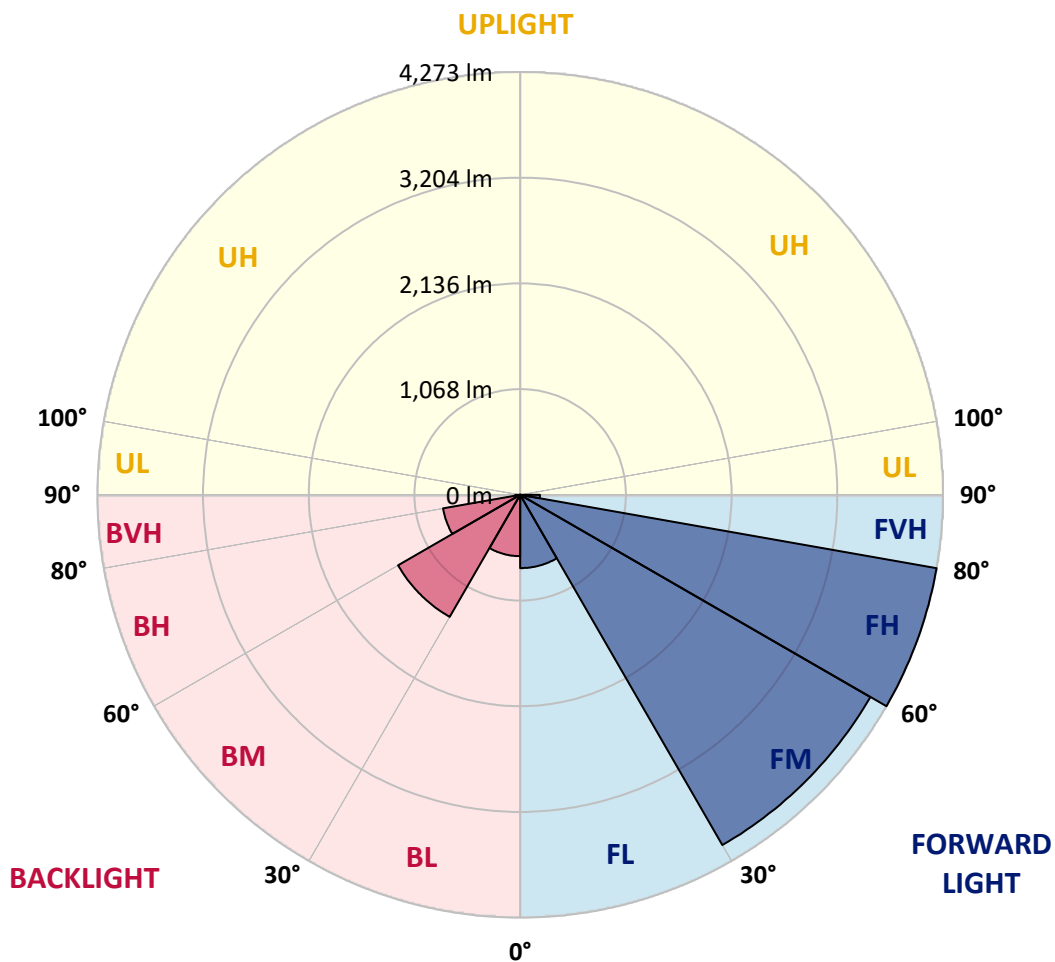
CATALOG NUMBER: LDRL-SL3-E04-E-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	740.7	6.1			
FM (30°-60°)	4086.2	33.5			
FH (60°-80°)	4272.7	35.1			G2/5000
FVH (80°-90°)	199.9	1.6			G2/225
BL (0°-30°)	620.3	5.1	B2/1000		
BM (30°-60°)	1424.8	11.7	B2/2500		
BH (60°-80°)	792.1	6.5	B2/1000		G2/1000
BVH (80°-90°)	48.2	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°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1361.0	1355.3	1356.1	1358.6	1350.4	1346.3	1337.2	1331.5	1330.7	1329.8	1326.5
5°	1440.7	1434.9	1437.4	1430.8	1415.2	1404.5	1385.7	1375.8	1374.2	1372.5	1368.4
7.5°	1523.6	1516.2	1508.0	1500.6	1483.3	1466.1	1441.5	1426.7	1425.1	1422.6	1420.1
10°	1622.1	1611.4	1604.8	1581.8	1552.3	1528.5	1503.9	1488.3	1487.4	1485.0	1480.1
12.5°	1732.9	1721.4	1709.1	1678.7	1632.7	1597.4	1568.7	1559.7	1552.3	1553.1	1548.2
15°	1842.9	1830.6	1814.2	1775.6	1714.8	1662.3	1625.4	1612.2	1613.0	1608.9	1611.4
17.5°	1935.6	1925.0	1901.2	1851.9	1781.3	1709.1	1662.3	1656.5	1658.2	1657.4	1659.8
20°	1996.4	1989.8	1953.7	1894.6	1815.0	1735.3	1687.7	1687.7	1688.6	1691.8	1697.6
22.5°	2033.3	2023.5	1975.9	1893.0	1814.2	1747.7	1710.7	1718.9	1723.9	1726.3	1735.3
25°	2053.9	2041.5	1976.7	1866.7	1786.2	1756.7	1745.2	1765.7	1773.9	1778.0	1792.8
27.5°	2053.9	2039.1	1966.0	1833.9	1754.2	1783.8	1810.9	1846.2	1851.9	1864.2	1881.5
30°	2030.9	2019.4	1949.6	1809.2	1746.0	1834.7	1916.8	1957.0	1970.9	1984.9	2007.1
32.5°	2006.2	1996.4	1941.4	1822.4	1792.0	1941.4	2078.5	2133.5	2141.7	2153.2	2176.2
35°	2004.6	2001.3	1977.5	1906.1	1930.7	2136.8	2322.3	2360.0	2383.0	2388.8	2398.6
37.5°	2021.8	2028.4	2048.9	2041.5	2130.2	2427.4	2641.6	2717.1	2735.2	2725.3	2734.4
40°	2062.1	2078.5	2154.8	2249.2	2434.7	2778.7	3076.7	3163.7	3183.4	3177.6	3175.2
42.5°	2189.3	2211.5	2323.9	2525.9	2751.6	3142.3	3480.5	3574.1	3580.7	3584.0	3562.6
45°	2388.8	2401.1	2550.5	2808.2	3094.7	3533.9	3883.6	3987.9	3983.8	3967.3	3951.7
47.5°	2615.3	2640.8	2819.7	3131.7	3449.4	3895.9	4291.6	4393.4	4402.4	4387.6	4358.9
50°	2821.4	2841.1	3043.0	3413.2	3762.1	4197.2	4635.5	4738.1	4736.5	4744.7	4752.9
52.5°	2983.9	3002.0	3194.1	3601.2	3992.0	4450.0	4894.9	5021.3	5041.1	5054.2	5070.6
55°	3067.6	3086.5	3263.8	3679.2	4131.5	4697.1	5194.6	5376.0	5409.6	5439.2	5466.3
57.5°	3069.3	3093.9	3256.4	3673.5	4203.7	4917.9	5591.0	5916.9	5964.5	6040.1	6132.8
60°	3019.2	3053.7	3199.8	3620.1	4286.7	5197.8	6244.5	6868.3	6961.9	7094.1	7213.1
62.5°	2888.7	2923.2	3053.7	3484.7	4383.5	5556.6	7188.5	8102.9	8302.4	8448.5	8684.1
65°	2682.7	2715.5	2825.5	3260.6	4306.4	5839.8	7892.0	8988.7	9192.3	9375.3	9652.0
67°	2498.8	2502.1	2594.8	3003.6	4005.9	5751.9	8033.2	9106.9	9294.9	9480.4	9801.4
67.5°	2433.9	2452.0	2524.2	2918.2	3891.8	5687.1	7977.4	9042.9	9225.1	9422.9	9750.5
70°	1967.7	1972.6	2042.4	2328.0	3088.2	4715.2	7165.5	8226.1	8350.9	8640.6	8962.4
72.5°	1200.1	1191.9	1214.1	1425.9	2032.5	3265.5	5737.2	6772.3	6943.0	7190.1	7407.7
75°	660.8	700.2	727.3	874.2	1141.9	1920.0	3906.6	4899.9	5150.2	5297.2	5340.7
77.5°	403.9	400.6	412.9	563.9	936.6	1313.4	2158.1	2874.7	3014.3	3056.2	2894.4
80°	192.1	199.5	197.0	232.3	453.9	1108.2	1508.8	1846.2	1916.8	1957.0	2009.5
82.5°	105.1	109.2	124.0	138.7	179.0	476.9	1301.9	1702.5	1750.1	1819.1	1896.2
85°	65.7	69.0	95.2	100.1	110.0	146.9	542.6	994.9	1035.1	1172.2	1215.7
87.5°	27.1	29.6	51.7	46.8	55.8	51.7	164.2	252.8	268.4	285.7	316.9
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°	67.5°	68°	69°	70°	71°	72°	73°	74°
0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1327.4	1326.5	1323.3	1322.4	1324.1	1324.1	1322.4	1320.0	1319.2	1318.3	1316.7
5°	1366.8	1365.1	1362.7	1361.0	1360.2	1360.2	1357.7	1355.3	1352.8	1349.5	1348.7
7.5°	1413.6	1413.6	1412.7	1410.3	1407.8	1404.5	1402.1	1399.6	1397.1	1395.5	1393.0
10°	1475.1	1478.4	1472.7	1471.0	1470.2	1465.3	1464.5	1462.0	1460.4	1456.2	1456.2
12.5°	1548.2	1544.9	1544.1	1540.8	1540.8	1538.3	1537.5	1536.7	1535.1	1531.8	1530.9
15°	1608.9	1608.9	1608.1	1606.5	1608.1	1606.5	1604.0	1605.6	1603.2	1604.0	1601.5
17.5°	1658.2	1661.5	1660.6	1661.5	1660.6	1660.6	1662.3	1662.3	1663.9	1660.6	1661.5
20°	1699.2	1704.2	1706.6	1705.0	1706.6	1707.4	1711.5	1713.2	1715.6	1717.3	1717.3
22.5°	1741.9	1748.5	1753.4	1753.4	1756.7	1760.0	1767.4	1769.0	1774.8	1773.9	1778.0
25°	1801.8	1812.5	1815.8	1820.7	1824.8	1830.6	1839.6	1843.7	1846.2	1851.9	1858.5
27.5°	1893.8	1906.9	1909.4	1915.1	1925.8	1929.1	1938.9	1943.0	1952.1	1964.4	1966.8
30°	2019.4	2035.8	2036.6	2043.2	2055.5	2059.6	2067.8	2078.5	2085.9	2098.2	2099.0
32.5°	2190.1	2206.5	2204.1	2216.4	2215.6	2227.9	2225.4	2241.8	2248.4	2255.0	2273.0
35°	2417.5	2415.9	2428.2	2432.3	2429.8	2439.7	2438.0	2445.4	2452.0	2452.0	2471.7
37.5°	2745.0	2742.6	2740.9	2723.7	2719.6	2720.4	2717.1	2723.7	2713.0	2713.0	2734.4
40°	3184.2	3169.4	3157.9	3146.4	3135.0	3119.4	3106.2	3102.9	3084.9	3084.1	3075.9
42.5°	3565.9	3552.0	3543.8	3521.6	3510.1	3507.6	3475.6	3466.6	3461.7	3465.0	3456.7
45°	3966.5	3951.7	3920.5	3910.7	3907.4	3890.2	3885.2	3863.1	3856.5	3868.0	3863.9
47.5°	4379.4	4358.1	4340.8	4329.3	4325.2	4310.5	4289.1	4307.2	4298.2	4291.6	4279.3
50°	4750.5	4726.7	4726.7	4706.1	4709.4	4699.6	4677.4	4682.3	4656.9	4666.7	4660.2
52.5°	5061.6	5063.2	5071.4	5048.4	5052.5	5052.5	5045.2	5021.3	5027.9	5024.6	5040.2
55°	5457.2	5484.3	5469.6	5473.7	5478.6	5501.6	5518.0	5504.0	5481.0	5499.1	5549.2
57.5°	6149.2	6173.9	6188.6	6200.1	6219.0	6229.7	6318.3	6330.7	6304.4	6358.6	6470.2
60°	7352.7	7382.2	7426.5	7484.8	7497.1	7571.8	7617.8	7672.0	7691.7	7738.5	7858.3
62.5°	8799.9	8866.4	8874.6	8948.5	9005.9	8936.1	8954.2	9020.7	8945.2	9048.6	9053.5
65°	9747.2	9844.0	9847.3	9874.4	9895.8	9830.1	9800.5	9771.0	9699.6	9695.5	9766.9
67°	9909.7	9998.4	10035.3	10048.4	10045.2	10011.5	9963.1	9877.7	9808.7	9769.3	9798.9
67.5°	9863.7	9950.8	10002.5	10014.8	10015.6	9982.8	9938.4	9845.7	9780.8	9736.5	9767.7
70°	9108.5	9312.1	9400.8	9354.8	9381.1	9381.1	9379.4	9294.1	9262.0	9219.4	9202.9
72.5°	7573.5	7714.7	7827.1	7767.2	7774.6	7830.4	7817.3	7826.3	7734.4	7724.5	7572.7
75°	5425.2	5470.4	5432.6	5475.3	5245.5	5163.4	5023.8	4820.2	4766.9	4682.3	4429.5
77.5°	2882.1	2831.2	2730.3	2722.1	2627.7	2554.6	2464.3	2405.2	2255.8	2172.9	1983.3
80°	2035.8	2060.4	2099.0	2122.0	2143.3	2159.7	2126.1	2031.7	1906.9	1767.4	1635.2
82.5°	1944.7	1978.3	2001.3	2012.8	2004.6	1978.3	1901.2	1810.9	1644.2	1523.6	1380.7
85°	1226.4	1253.5	1206.7	1196.8	1217.4	1051.6	960.4	886.6	718.3	668.2	590.2
87.5°	329.2	347.2	348.1	337.4	330.8	291.4	257.8	228.2	188.8	177.3	143.7
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):

	75°	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°
0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1316.7	1315.9	1315.9	1313.4	1311.8	1311.0	1310.1	1307.7	1306.0	1306.0	1305.2
5°	1347.9	1346.3	1343.8	1343.0	1339.7	1338.0	1334.8	1333.1	1330.7	1329.0	1328.2
7.5°	1392.2	1388.1	1383.2	1384.0	1379.1	1376.6	1375.0	1371.7	1369.2	1366.8	1366.0
10°	1451.3	1450.5	1445.6	1447.2	1438.2	1442.3	1434.1	1434.9	1430.0	1425.1	1424.2
12.5°	1526.8	1526.0	1521.1	1515.4	1513.7	1514.5	1509.6	1510.4	1504.7	1503.0	1501.4
15°	1599.1	1597.4	1595.0	1590.9	1588.4	1587.6	1585.9	1584.3	1579.4	1579.4	1573.6
17.5°	1661.5	1662.3	1659.0	1655.7	1654.1	1651.6	1650.8	1650.8	1646.7	1642.6	1643.4
20°	1716.5	1718.1	1718.1	1715.6	1716.5	1714.8	1714.0	1715.6	1711.5	1709.9	1707.4
22.5°	1778.0	1778.0	1778.9	1780.5	1783.0	1783.8	1783.8	1782.1	1779.7	1778.9	1773.9
25°	1863.4	1860.1	1864.2	1865.9	1865.9	1870.0	1868.3	1869.2	1870.0	1867.5	1865.0
27.5°	1970.9	1967.7	1975.9	1981.6	1980.8	1983.3	1988.2	1982.4	1985.7	1988.2	1982.4
30°	2103.1	2111.3	2117.1	2121.2	2119.5	2126.9	2129.4	2128.6	2126.1	2130.2	2130.2
32.5°	2271.4	2267.3	2282.1	2291.1	2291.9	2290.3	2294.4	2299.3	2295.2	2301.8	2298.5
35°	2471.7	2474.1	2477.4	2487.3	2491.4	2484.8	2491.4	2497.1	2495.5	2496.3	2499.6
37.5°	2730.3	2734.4	2731.1	2731.9	2730.3	2761.5	2766.4	2771.3	2765.6	2760.6	2775.4
40°	3089.0	3089.0	3088.2	3098.8	3080.8	3100.5	3094.7	3108.7	3123.5	3115.3	3137.4
42.5°	3442.0	3461.7	3463.3	3447.7	3460.8	3482.2	3482.2	3491.2	3504.4	3491.2	3512.6
45°	3846.7	3871.3	3867.2	3893.5	3873.8	3898.4	3902.5	3891.0	3919.7	3923.0	3914.8
47.5°	4288.3	4293.2	4294.0	4303.1	4307.2	4326.9	4326.1	4347.4	4340.8	4308.0	4319.5
50°	4666.7	4679.0	4685.6	4691.4	4711.9	4725.8	4744.7	4748.0	4743.1	4733.2	4724.2
52.5°	5045.2	5074.7	5093.6	5144.5	5176.5	5201.9	5233.1	5244.6	5238.9	5236.4	5200.3
55°	5551.6	5622.2	5731.4	5802.0	5879.2	5924.3	5960.4	5978.5	5965.4	5971.9	5897.2
57.5°	6505.5	6671.3	6766.5	6887.2	7023.5	7080.1	7095.7	7159.8	7089.2	7018.6	6961.9
60°	7923.2	8075.9	8249.1	8373.0	8419.0	8575.8	8501.9	8419.0	8343.5	8197.4	8032.4
62.5°	9202.9	9399.9	9488.6	9604.3	9573.2	9560.0	9510.8	9378.6	9216.9	8999.4	8779.4
65°	9834.2	9945.0	10000.0	10037.8	10002.5	9911.4	9748.8	9553.5	9322.0	9040.4	8751.4
67°	9859.6	9910.5	9928.6	9892.5	9813.7	9671.7	9466.4	9189.8	8905.0	8582.3	8257.3
67.5°	9817.8	9851.4	9860.5	9803.8	9710.2	9556.7	9337.6	9042.0	8739.1	8404.2	8077.5
70°	9246.4	9221.8	9142.2	9064.2	8772.0	8565.9	8184.2	7869.0	7448.7	7140.9	6792.0
72.5°	7511.9	7399.5	7322.3	6977.5	6624.5	6420.1	6009.7	5632.9	5249.6	4956.5	4742.2
75°	4216.9	4134.8	3920.5	3738.3	3446.9	3180.1	2988.8	2749.1	2519.3	2383.0	2282.9
77.5°	1905.3	1670.5	1508.8	1304.4	1054.0	847.2	628.8	581.2	495.8	474.5	427.7
80°	1486.6	1318.3	1106.6	872.6	615.7	413.7	303.7	257.8	242.2	232.3	227.4
82.5°	1240.4	1022.0	860.3	610.7	390.7	262.7	197.8	179.0	167.5	159.3	151.9
85°	530.3	419.5	345.6	247.1	175.7	138.7	121.5	110.8	100.1	91.1	85.4
87.5°	124.0	95.2	87.0	73.9	69.8	69.0	68.1	64.8	60.7	55.8	50.1
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2	1296.2
2.5°	1304.4	1303.6	1301.9	1299.5	1299.5	1296.2	1285.5	1278.1	1269.9	1265.0	1260.1
5°	1326.5	1325.7	1321.6	1319.2	1317.5	1311.0	1292.9	1278.9	1264.2	1253.5	1245.3
7.5°	1363.5	1361.0	1357.7	1356.1	1351.2	1343.0	1316.7	1297.0	1275.7	1258.4	1244.5
10°	1423.4	1419.3	1414.4	1409.5	1411.1	1398.0	1367.6	1338.9	1307.7	1280.6	1261.7
12.5°	1496.5	1496.5	1494.0	1490.7	1485.0	1470.2	1429.2	1395.5	1357.7	1324.1	1310.1
15°	1573.6	1569.5	1565.4	1560.5	1559.7	1540.0	1503.0	1464.5	1425.1	1396.3	1379.9
17.5°	1636.8	1638.5	1632.7	1631.1	1629.5	1609.8	1570.4	1535.9	1507.1	1476.8	1450.5
20°	1704.2	1700.9	1699.2	1696.8	1695.9	1679.5	1648.3	1627.0	1601.5	1555.6	1486.6
22.5°	1776.4	1772.3	1773.9	1769.0	1768.2	1756.7	1733.7	1727.1	1689.4	1592.5	1472.7
25°	1870.0	1862.6	1865.0	1865.0	1865.9	1855.2	1852.7	1841.2	1746.0	1583.5	1416.8
27.5°	1981.6	1984.9	1984.9	1984.1	1978.3	1981.6	1993.1	1953.7	1765.7	1535.9	1333.1
30°	2126.9	2128.6	2130.2	2135.9	2123.6	2145.0	2158.9	2033.3	1750.9	1470.2	1228.0
32.5°	2303.4	2296.8	2300.1	2303.4	2307.5	2329.7	2321.5	2073.6	1707.4	1380.7	1097.5
35°	2498.0	2510.3	2513.5	2520.9	2529.1	2562.8	2468.4	2081.8	1640.9	1260.9	930.9
37.5°	2787.7	2807.4	2807.4	2833.7	2818.1	2859.1	2599.7	2062.1	1540.0	1094.2	742.9
40°	3153.0	3162.0	3171.1	3174.4	3166.2	3161.2	2685.9	2013.6	1398.0	884.9	543.4
42.5°	3525.7	3522.4	3523.2	3529.0	3506.8	3414.1	2739.3	1929.1	1221.5	660.8	389.9
45°	3927.1	3913.2	3909.1	3897.6	3877.9	3682.5	2769.7	1810.0	989.2	464.6	306.2
47.5°	4317.9	4300.6	4274.3	4242.3	4204.6	3898.4	2766.4	1655.7	758.5	332.5	270.1
50°	4718.4	4688.1	4631.4	4600.2	4536.2	4112.6	2747.5	1484.2	545.9	275.0	252.8
52.5°	5176.5	5122.3	5069.8	5007.4	4901.5	4376.1	2718.8	1291.3	398.1	252.0	241.3
55°	5859.5	5770.8	5684.6	5554.9	5452.3	4729.1	2670.3	1083.6	314.4	243.0	234.8
57.5°	6801.0	6650.0	6540.8	6366.0	6201.8	5217.5	2618.6	894.8	280.7	240.5	231.5
60°	7860.8	7633.4	7429.8	7214.8	7027.6	5827.5	2591.5	747.0	273.4	243.0	232.3
62.5°	8525.7	8257.3	8002.8	7740.1	7470.9	6118.9	2474.1	645.2	276.6	253.7	238.9
65°	8442.0	8145.6	7869.0	7548.9	7295.2	5843.9	2175.3	545.9	282.4	272.5	256.9
67°	7877.2	7589.9	7274.7	6961.1	6714.8	5321.0	1836.3	459.7	289.0	293.9	276.6
67.5°	7726.2	7402.7	7085.1	6796.9	6530.1	5159.3	1747.7	438.4	290.6	299.6	283.2
70°	6443.1	6187.0	5815.1	5601.7	5408.8	4182.4	1303.6	340.7	295.5	325.1	314.4
72.5°	4508.3	4260.4	4065.8	3949.3	3836.8	3038.9	916.9	271.7	288.1	339.0	328.4
75°	2277.1	2220.5	2152.4	2114.6	2116.2	1766.5	552.5	231.5	270.9	325.1	298.0
77.5°	449.8	438.4	443.3	485.1	477.8	544.2	274.2	196.2	230.7	250.4	214.3
80°	217.5	210.1	203.6	201.9	197.8	189.6	172.4	163.4	187.2	165.0	142.0
82.5°	141.2	133.0	129.7	123.1	124.0	134.6	150.2	156.8	151.9	114.1	96.0
85°	79.6	78.8	77.2	78.8	82.1	107.5	160.9	146.9	122.3	80.4	72.2
87.5°	47.6	45.1	46.0	46.8	48.4	79.6	127.2	105.9	78.0	41.9	42.7
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):

	155°	165°	175°	180°
0°	1296.2	1296.2	1296.2	1296.2
2.5°	1259.2	1256.0	1256.0	1255.1
5°	1238.7	1233.8	1233.0	1233.0
7.5°	1235.4	1228.9	1228.0	1225.6
10°	1250.2	1247.7	1248.6	1246.1
12.5°	1297.0	1300.3	1303.6	1303.6
15°	1368.4	1366.0	1370.1	1366.0
17.5°	1421.0	1399.6	1394.7	1392.2
20°	1422.6	1378.3	1363.5	1361.0
22.5°	1371.7	1306.0	1281.4	1277.3
25°	1285.5	1202.6	1171.4	1168.1
27.5°	1177.1	1084.4	1038.4	1036.8
30°	1046.6	936.6	878.3	869.3
32.5°	887.4	756.9	695.3	675.6
35°	703.5	569.7	512.2	510.6
37.5°	525.4	421.1	384.2	382.5
40°	385.0	330.8	316.9	314.4
42.5°	314.4	292.2	286.5	284.0
45°	281.6	272.5	269.3	266.8
47.5°	261.9	256.1	253.7	253.7
50°	246.3	244.6	243.0	243.0
52.5°	235.6	234.8	233.1	232.3
55°	226.6	223.3	224.1	223.3
57.5°	220.8	215.9	215.9	215.9
60°	217.5	208.5	208.5	209.3
62.5°	218.4	204.4	203.6	203.6
65°	224.9	201.9	197.0	197.8
67°	233.1	199.5	189.6	188.8
67.5°	235.6	197.8	187.2	186.3
70°	245.4	192.9	174.8	173.2
72.5°	247.1	185.5	162.5	160.9
75°	229.8	175.7	152.7	148.6
77.5°	179.0	151.0	137.9	137.9
80°	125.6	115.7	98.5	97.7
82.5°	91.9	87.0	72.2	70.6
85°	67.3	63.2	53.4	53.4
87.5°	41.9	40.2	34.5	32.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)