

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: P145166

Luminaire Tested: **LDRL-SL3-F05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145166
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-F05-E-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12573.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

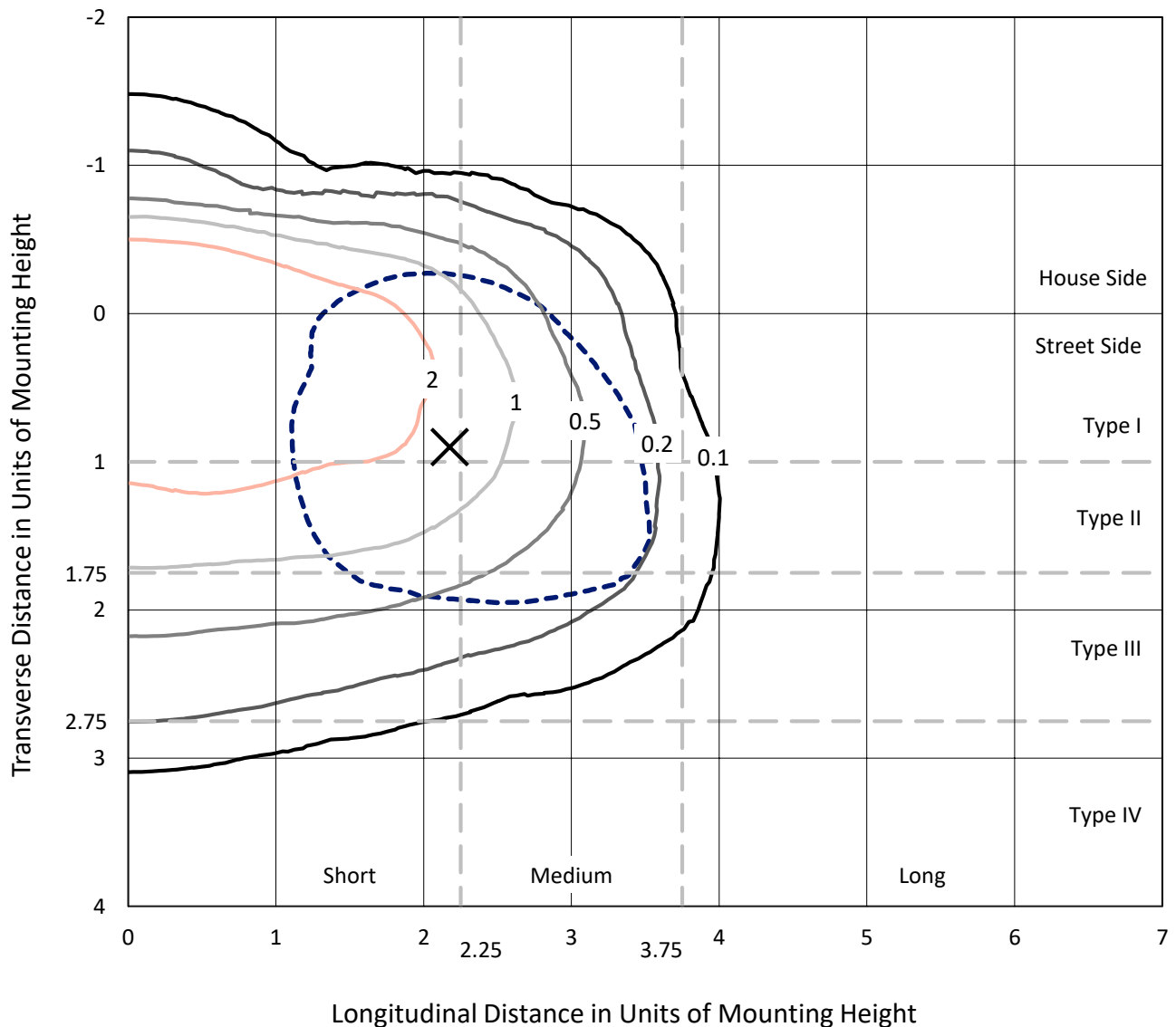
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

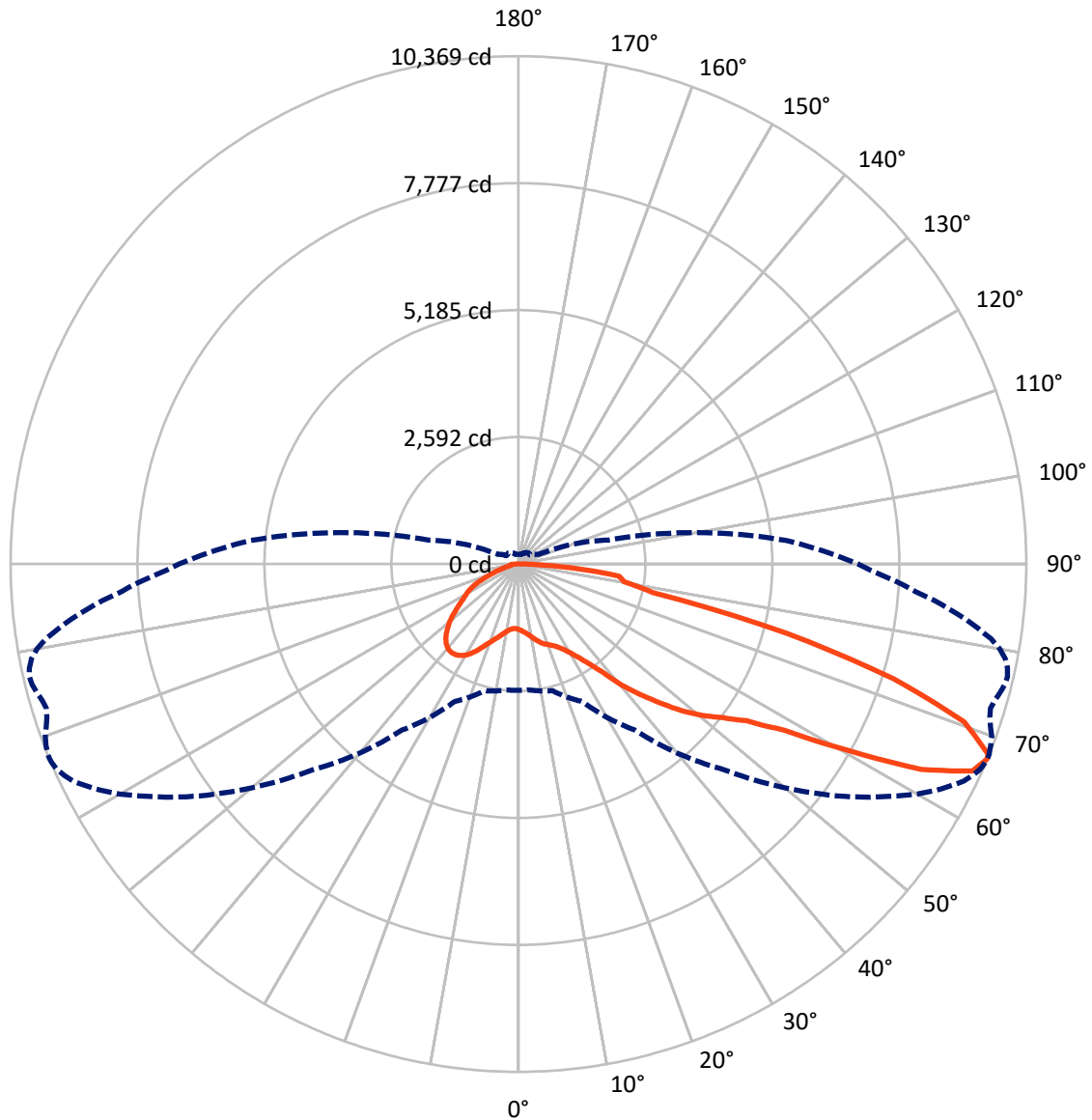
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2977.4	0.0	2977.4
	% Fixture	23.7	0.0	23.7
Street Side	Lumens	9596.2	0.0	9596.2
	% Fixture	76.3	0.0	76.3
Total	Lumens	12573.6	0.0	12573.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.1
10°-20°	457.1	3.6
20°-30°	813.8	6.5
30°-40°	1185.4	9.4
40°-50°	1826.5	14.5
50°-60°	2674.9	21.3
60°-70°	3552.0	28.3
70°-80°	1674.3	13.3
80°-90°	256.0	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°	12573.6	100.0
0°-180°	12573.6	100.0



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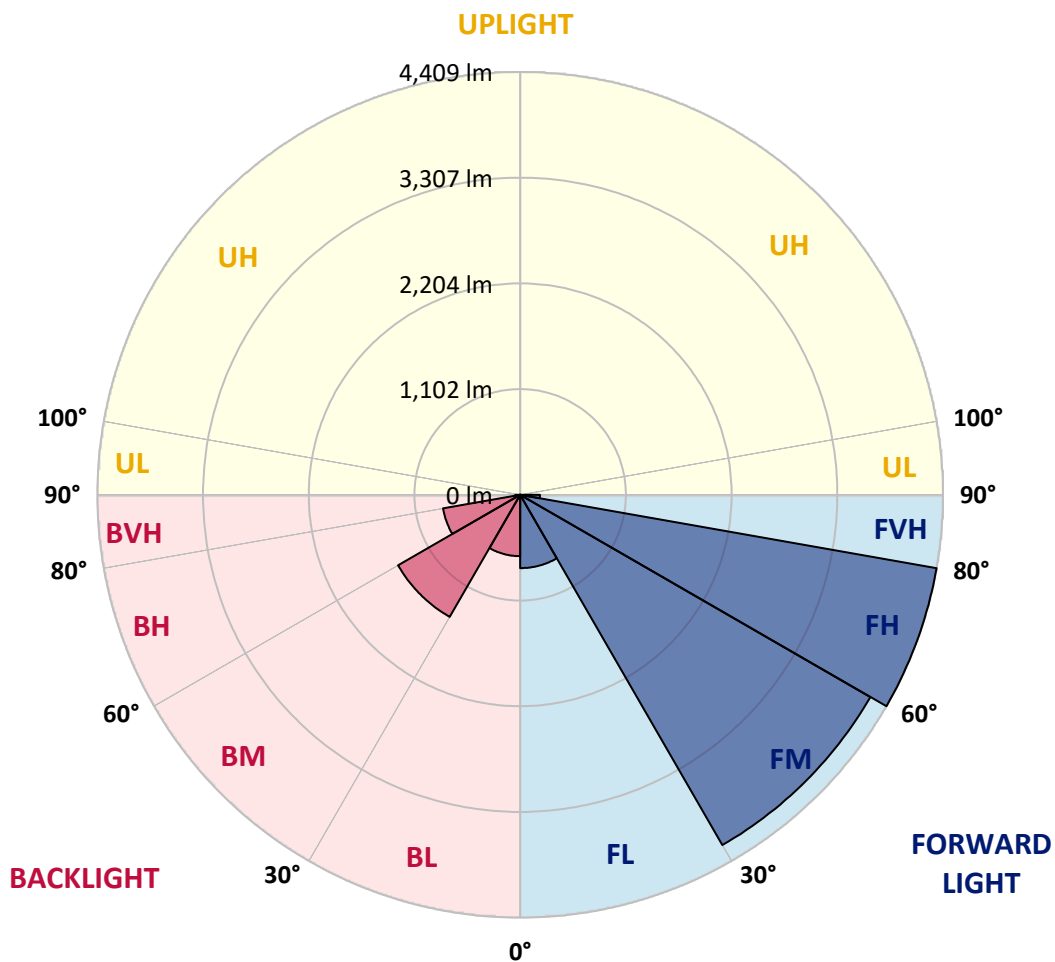
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	764.4	6.1			
FM	(30°-60°)	4216.6	33.5			
FH	(60°-80°)	4409.0	35.1			G2/5000
FVH	(80°-90°)	206.3	1.6			G2/225
BL	(0°-30°)	640.0	5.1	B2/1000		
BM	(30°-60°)	1470.2	11.7	B2/2500		
BH	(60°-80°)	817.4	6.5	B2/1000		G2/1000
BVH	(80°-90°)	49.7	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°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1404.5	1398.5	1399.4	1401.9	1393.4	1389.2	1379.9	1374.0	1373.1	1372.3	1368.9
5°	1486.6	1480.7	1483.2	1476.5	1460.4	1449.3	1429.9	1419.7	1418.0	1416.3	1412.1
7.5°	1572.2	1564.5	1556.1	1548.5	1530.7	1512.9	1487.5	1472.2	1470.5	1468.0	1465.4
10°	1673.8	1662.8	1656.0	1632.3	1601.8	1577.3	1551.8	1535.7	1534.9	1532.4	1527.3
12.5°	1788.2	1776.3	1763.6	1732.3	1684.8	1648.4	1618.8	1609.4	1601.8	1602.7	1597.6
15°	1901.7	1889.0	1872.0	1832.2	1769.5	1715.3	1677.2	1663.7	1664.5	1660.3	1662.8
17.5°	1997.4	1986.4	1961.8	1911.0	1838.2	1763.6	1715.3	1709.4	1711.1	1710.2	1712.8
20°	2060.1	2053.3	2016.0	1955.1	1872.9	1790.7	1741.6	1741.6	1742.4	1745.8	1751.8
22.5°	2098.2	2088.0	2038.9	1953.4	1872.0	1803.4	1765.3	1773.8	1778.9	1781.4	1790.7
25°	2119.4	2106.7	2039.8	1926.2	1843.2	1812.7	1800.9	1822.1	1830.5	1834.8	1850.0
27.5°	2119.4	2104.1	2028.7	1892.4	1810.2	1840.7	1868.6	1905.1	1911.0	1923.7	1941.5
30°	2095.7	2083.8	2011.8	1867.0	1801.7	1893.2	1977.9	2019.4	2033.8	2048.2	2071.1
32.5°	2070.3	2060.1	2003.3	1880.5	1849.2	2003.3	2144.8	2201.5	2210.0	2221.9	2245.6
35°	2068.6	2065.2	2040.6	1966.9	1992.3	2204.9	2396.4	2435.3	2459.1	2465.0	2475.2
37.5°	2086.3	2093.1	2114.3	2106.7	2198.2	2504.8	2725.9	2803.8	2822.5	2812.3	2821.6
40°	2127.9	2144.8	2223.6	2321.0	2512.4	2867.4	3174.8	3264.6	3285.0	3279.0	3276.5
42.5°	2259.2	2282.0	2398.1	2606.5	2839.4	3242.6	3591.6	3688.2	3694.9	3698.3	3676.3
45°	2465.0	2477.7	2631.9	2897.8	3193.5	3646.7	4007.5	4115.1	4110.9	4093.9	4077.8
47.5°	2698.8	2725.0	2909.7	3231.6	3559.4	4020.2	4428.5	4533.5	4542.9	4527.6	4498.0
50°	2911.4	2931.7	3140.1	3522.1	3882.1	4331.1	4783.4	4889.3	4887.6	4896.1	4904.6
52.5°	3079.1	3097.8	3296.0	3716.1	4119.3	4592.0	5051.1	5181.6	5201.9	5215.4	5232.4
55°	3165.5	3185.0	3368.0	3796.6	4263.3	4847.0	5360.3	5547.5	5582.2	5612.7	5640.7
57.5°	3167.2	3192.6	3360.3	3790.7	4337.9	5074.8	5769.4	6105.7	6154.9	6232.8	6328.5
60°	3115.5	3151.1	3301.9	3735.6	4423.4	5363.7	6443.7	7087.5	7184.0	7320.4	7443.3
62.5°	2980.9	3016.4	3151.1	3595.8	4523.4	5733.9	7417.8	8361.5	8567.3	8718.1	8961.2
65°	2768.2	2802.1	2915.6	3364.6	4443.8	6026.1	8143.8	9275.5	9485.6	9674.5	9959.9
67°	2578.5	2581.9	2677.6	3099.4	4133.7	5935.5	8289.5	9397.5	9591.4	9782.9	10114.1
67.5°	2511.6	2530.2	2604.8	3011.4	4016.0	5868.5	8231.9	9331.4	9519.4	9723.6	10061.6
70°	2030.4	2035.5	2107.5	2402.3	3186.7	4865.6	7394.1	8488.5	8617.3	8916.3	9248.4
72.5°	1238.4	1230.0	1252.8	1471.4	2097.4	3369.7	5920.2	6988.4	7164.6	7419.5	7644.0
75°	681.9	722.6	750.5	902.1	1178.3	1981.3	4031.2	5056.2	5314.6	5466.2	5511.1
77.5°	416.8	413.4	426.1	581.9	966.5	1355.3	2227.0	2966.5	3110.5	3153.7	2986.8
80°	198.2	205.8	203.3	239.7	468.4	1143.6	1556.9	1905.1	1977.9	2019.4	2073.6
82.5°	108.4	112.7	127.9	143.2	184.7	492.2	1343.5	1756.8	1806.0	1877.1	1956.7
85°	67.8	71.2	98.3	103.3	113.5	151.6	559.9	1026.7	1068.2	1209.6	1254.5
87.5°	28.0	30.5	53.4	48.3	57.6	53.4	169.4	260.9	277.0	294.8	327.0
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°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1369.7	1368.9	1365.5	1364.6	1366.3	1366.3	1364.6	1362.1	1361.3	1360.4	1358.7
5°	1410.4	1408.7	1406.1	1404.5	1403.6	1403.6	1401.1	1398.5	1396.0	1392.6	1391.7
7.5°	1458.7	1458.7	1457.8	1455.3	1452.7	1449.3	1446.8	1444.3	1441.7	1440.0	1437.5
10°	1522.2	1525.6	1519.7	1518.0	1517.1	1512.0	1511.2	1508.6	1506.9	1502.7	1502.7
12.5°	1597.6	1594.2	1593.3	1590.0	1590.0	1587.4	1586.6	1585.7	1584.0	1580.6	1579.8
15°	1660.3	1660.3	1659.4	1657.7	1659.4	1657.7	1655.2	1656.9	1654.3	1655.2	1652.6
17.5°	1711.1	1714.5	1713.6	1714.5	1713.6	1713.6	1715.3	1715.3	1717.0	1713.6	1714.5
20°	1753.4	1758.5	1761.1	1759.4	1761.1	1761.9	1766.2	1767.8	1770.4	1772.1	1772.1
22.5°	1797.5	1804.3	1809.4	1809.4	1812.7	1816.1	1823.8	1825.4	1831.4	1830.5	1834.8
25°	1859.3	1870.3	1873.7	1878.8	1883.0	1889.0	1898.3	1902.5	1905.1	1911.0	1917.8
27.5°	1954.2	1967.8	1970.3	1976.2	1987.2	1990.6	2000.8	2005.0	2014.3	2027.1	2029.6
30°	2083.8	2100.7	2101.6	2108.4	2121.1	2125.3	2133.8	2144.8	2152.4	2165.1	2166.0
32.5°	2260.0	2276.9	2274.4	2287.1	2286.3	2299.0	2296.4	2313.4	2320.1	2326.9	2345.6
35°	2494.6	2492.9	2505.6	2509.9	2507.3	2517.5	2515.8	2523.4	2530.2	2530.2	2550.5
37.5°	2832.6	2830.1	2828.4	2810.6	2806.4	2807.2	2803.8	2810.6	2799.6	2799.6	2821.6
40°	3285.8	3270.6	3258.7	3246.8	3235.0	3218.9	3205.3	3201.9	3183.3	3182.5	3174.0
42.5°	3679.7	3665.3	3656.8	3634.0	3622.1	3619.6	3586.5	3577.2	3572.1	3575.5	3567.0
45°	4093.1	4077.8	4045.6	4035.5	4032.1	4014.3	4009.2	3986.3	3979.6	3991.4	3987.2
47.5°	4519.1	4497.1	4479.3	4467.5	4463.2	4448.0	4426.0	4444.6	4435.3	4428.5	4415.8
50°	4902.0	4877.5	4877.5	4856.3	4859.7	4849.5	4826.6	4831.7	4805.5	4815.6	4808.8
52.5°	5223.1	5224.8	5233.2	5209.5	5213.8	5213.8	5206.1	5181.6	5188.3	5184.9	5201.0
55°	5631.4	5659.3	5644.1	5648.3	5653.4	5677.1	5694.0	5679.6	5655.9	5674.6	5726.2
57.5°	6345.4	6370.9	6386.1	6398.0	6417.4	6428.5	6519.9	6532.6	6505.5	6561.4	6676.7
60°	7587.3	7617.8	7663.5	7723.6	7736.3	7813.4	7860.9	7916.8	7937.1	7985.4	8109.1
62.5°	9080.7	9149.3	9157.7	9234.0	9293.3	9221.3	9239.9	9308.5	9230.6	9337.3	9342.4
65°	10058.2	10158.1	10161.5	10189.5	10211.5	10143.7	10113.2	10082.7	10009.0	10004.8	10078.5
67°	10225.9	10317.4	10355.5	10369.1	10365.7	10330.9	10281.0	10192.9	10121.7	10081.0	10111.5
67.5°	10178.5	10268.3	10321.6	10334.3	10335.2	10301.3	10255.5	10159.8	10092.9	10047.2	10079.4
70°	9399.2	9609.2	9700.7	9653.3	9680.4	9680.4	9678.7	9590.6	9557.6	9513.5	9496.6
72.5°	7815.1	7960.8	8076.9	8015.0	8022.7	8080.3	8066.7	8076.0	7981.1	7971.0	7814.3
75°	5598.3	5644.9	5605.9	5650.0	5412.8	5328.1	5184.1	4974.0	4919.0	4831.7	4570.8
77.5°	2974.1	2921.6	2817.4	2808.9	2711.5	2636.1	2542.9	2481.9	2327.8	2242.2	2046.5
80°	2100.7	2126.2	2166.0	2189.7	2211.7	2228.7	2193.9	2096.5	1967.8	1823.8	1687.4
82.5°	2006.7	2041.5	2065.2	2077.0	2068.6	2041.5	1961.8	1868.6	1696.7	1572.2	1424.8
85°	1265.5	1293.5	1245.2	1235.0	1256.2	1085.1	991.1	914.8	741.2	689.5	609.0
87.5°	339.7	358.3	359.2	348.1	341.4	300.7	266.0	235.5	194.8	183.0	148.2
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°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1358.7	1357.9	1357.9	1355.3	1353.6	1352.8	1351.9	1349.4	1347.7	1347.7	1346.9
5°	1390.9	1389.2	1386.7	1385.8	1382.4	1380.7	1377.3	1375.7	1373.1	1371.4	1370.6
7.5°	1436.6	1432.4	1427.3	1428.2	1423.1	1420.5	1418.9	1415.5	1412.9	1410.4	1409.5
10°	1497.6	1496.8	1491.7	1493.4	1484.1	1488.3	1479.8	1480.7	1475.6	1470.5	1469.7
12.5°	1575.6	1574.7	1569.6	1563.7	1562.0	1562.9	1557.8	1558.6	1552.7	1551.0	1549.3
15°	1650.1	1648.4	1645.9	1641.6	1639.1	1638.2	1636.6	1634.9	1629.8	1629.8	1623.8
17.5°	1714.5	1715.3	1711.9	1708.6	1706.9	1704.3	1703.5	1703.5	1699.2	1695.0	1695.8
20°	1771.2	1772.9	1772.9	1770.4	1771.2	1769.5	1768.7	1770.4	1766.2	1764.5	1761.9
22.5°	1834.8	1834.8	1835.6	1837.3	1839.8	1840.7	1840.7	1839.0	1836.5	1835.6	1830.5
25°	1922.9	1919.5	1923.7	1925.4	1925.4	1929.6	1927.9	1928.8	1929.6	1927.1	1924.6
27.5°	2033.8	2030.4	2038.9	2044.8	2044.0	2046.5	2051.6	2045.7	2049.1	2051.6	2045.7
30°	2170.2	2178.7	2184.6	2188.8	2187.1	2194.8	2197.3	2196.5	2193.9	2198.2	2198.2
32.5°	2343.9	2339.6	2354.9	2364.2	2365.0	2363.3	2367.6	2372.7	2368.4	2375.2	2371.8
35°	2550.5	2553.1	2556.5	2566.6	2570.9	2564.1	2570.9	2576.8	2575.1	2576.0	2579.3
37.5°	2817.4	2821.6	2818.2	2819.1	2817.4	2849.6	2854.6	2859.7	2853.8	2848.7	2864.0
40°	3187.5	3187.5	3186.7	3197.7	3179.1	3199.4	3193.5	3207.9	3223.1	3214.7	3237.5
42.5°	3551.8	3572.1	3573.8	3557.7	3571.3	3593.3	3593.3	3602.6	3616.2	3602.6	3624.6
45°	3969.4	3994.8	3990.6	4017.7	3997.3	4022.8	4027.0	4015.1	4044.8	4048.2	4039.7
47.5°	4425.1	4430.2	4431.1	4440.4	4444.6	4464.9	4464.1	4486.1	4479.3	4445.5	4457.3
50°	4815.6	4828.3	4835.1	4841.0	4862.2	4876.6	4896.1	4899.5	4894.4	4884.2	4874.9
52.5°	5206.1	5236.6	5256.1	5308.6	5341.7	5367.9	5400.1	5412.0	5406.0	5403.5	5366.2
55°	5728.8	5801.6	5914.3	5987.1	6066.8	6113.3	6150.6	6169.3	6155.7	6162.5	6085.4
57.5°	6713.1	6884.2	6982.4	7107.0	7247.6	7306.0	7322.1	7388.2	7315.3	7242.5	7184.0
60°	8176.0	8333.5	8512.3	8640.2	8687.6	8849.4	8773.2	8687.6	8609.7	8458.9	8288.6
62.5°	9496.6	9699.9	9791.3	9910.8	9878.6	9865.0	9814.2	9677.8	9511.0	9286.5	9059.5
65°	10148.0	10262.3	10319.1	10358.0	10321.6	10227.6	10059.9	9858.3	9619.4	9328.8	9030.7
67°	10174.2	10226.7	10245.4	10208.1	10126.8	9980.2	9768.5	9483.0	9189.1	8856.2	8520.7
67.5°	10131.0	10165.8	10175.1	10116.6	10020.1	9861.7	9635.5	9330.5	9018.0	8672.4	8335.2
70°	9541.5	9516.0	9433.9	9353.4	9051.9	8839.2	8445.3	8120.1	7686.4	7368.7	7008.7
72.5°	7751.6	7635.5	7555.9	7200.1	6835.9	6625.0	6201.4	5812.6	5417.0	5114.6	4893.6
75°	4351.4	4266.7	4045.6	3857.6	3556.9	3281.6	3084.2	2836.9	2599.7	2459.1	2355.7
77.5°	1966.1	1723.8	1556.9	1346.0	1087.6	874.2	648.9	599.7	511.6	489.6	441.3
80°	1534.1	1360.4	1141.9	900.4	635.3	426.9	313.4	266.0	249.9	239.7	234.6
82.5°	1279.9	1054.6	887.7	630.2	403.2	271.1	204.1	184.7	172.8	164.3	156.7
85°	547.2	432.9	356.6	255.0	181.3	143.2	125.4	114.4	103.3	94.0	88.1
87.5°	127.9	98.3	89.8	76.2	72.0	71.2	70.3	66.9	62.7	57.6	51.7
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):

	86°	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°
0°	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5	1337.5
2.5°	1346.0	1345.2	1343.5	1340.9	1340.9	1337.5	1326.5	1318.9	1310.4	1305.3	1300.3
5°	1368.9	1368.0	1363.8	1361.3	1359.6	1352.8	1334.1	1319.7	1304.5	1293.5	1285.0
7.5°	1407.0	1404.5	1401.1	1399.4	1394.3	1385.8	1358.7	1338.4	1316.4	1298.6	1284.2
10°	1468.8	1464.6	1459.5	1454.4	1456.1	1442.6	1411.2	1381.6	1349.4	1321.4	1302.0
12.5°	1544.2	1544.2	1541.7	1538.3	1532.4	1517.1	1474.8	1440.0	1401.1	1366.3	1351.9
15°	1623.8	1619.6	1615.4	1610.3	1609.4	1589.1	1551.0	1511.2	1470.5	1440.9	1423.9
17.5°	1689.1	1690.8	1684.8	1683.1	1681.4	1661.1	1620.5	1584.9	1555.2	1523.9	1496.8
20°	1758.5	1755.1	1753.4	1750.9	1750.1	1733.1	1700.9	1678.9	1652.6	1605.2	1534.1
22.5°	1833.1	1828.8	1830.5	1825.4	1824.6	1812.7	1789.0	1782.2	1743.3	1643.3	1519.7
25°	1929.6	1922.0	1924.6	1924.6	1925.4	1914.4	1911.8	1900.0	1801.7	1634.0	1462.1
27.5°	2044.8	2048.2	2048.2	2047.4	2041.5	2044.8	2056.7	2016.0	1822.1	1584.9	1375.7
30°	2194.8	2196.5	2198.2	2204.1	2191.4	2213.4	2227.8	2098.2	1806.8	1517.1	1267.2
32.5°	2376.9	2370.1	2373.5	2376.9	2381.1	2404.0	2395.5	2139.7	1761.9	1424.8	1132.5
35°	2577.7	2590.4	2593.7	2601.4	2609.8	2644.6	2547.2	2148.2	1693.3	1301.1	960.6
37.5°	2876.7	2897.0	2897.0	2924.1	2908.0	2950.4	2682.7	2127.9	1589.1	1129.2	766.6
40°	3253.6	3262.9	3272.3	3275.6	3267.2	3262.1	2771.6	2077.9	1442.6	913.1	560.8
42.5°	3638.2	3634.8	3635.6	3641.6	3618.7	3523.0	2826.7	1990.6	1260.4	681.9	402.4
45°	4052.4	4038.0	4033.8	4021.9	4001.6	3800.0	2858.0	1867.8	1020.7	479.4	316.0
47.5°	4455.6	4437.8	4410.7	4377.7	4338.7	4022.8	2854.6	1708.6	782.7	343.1	278.7
50°	4869.0	4837.6	4779.2	4747.0	4680.9	4243.8	2835.2	1531.5	563.3	283.8	260.9
52.5°	5341.7	5285.8	5231.5	5167.2	5057.9	4515.8	2805.5	1332.4	410.8	260.1	249.0
55°	6046.4	5954.9	5866.0	5732.2	5626.3	4880.0	2755.5	1118.1	324.4	250.7	242.3
57.5°	7018.0	6862.2	6749.5	6569.1	6399.7	5384.0	2702.2	923.3	289.7	248.2	238.9
60°	8111.6	7877.0	7666.9	7444.9	7251.8	6013.4	2674.2	770.8	282.1	250.7	239.7
62.5°	8797.7	8520.7	8258.1	7987.1	7709.2	6314.1	2553.1	665.8	285.5	261.7	246.5
65°	8711.3	8405.5	8120.1	7789.7	7528.0	6030.3	2244.8	563.3	291.4	281.2	265.1
67°	8128.5	7832.1	7506.8	7183.2	6929.1	5490.7	1894.9	474.4	298.2	303.3	285.5
67.5°	7972.7	7638.9	7311.1	7013.8	6738.5	5323.9	1803.4	452.3	299.9	309.2	292.2
70°	6648.7	6384.4	6000.7	5780.4	5581.4	4315.9	1345.2	351.5	304.9	335.4	324.4
72.5°	4652.1	4396.3	4195.6	4075.3	3959.2	3135.9	946.2	280.4	297.3	349.8	338.8
75°	2349.8	2291.3	2221.0	2182.1	2183.8	1822.9	570.1	238.9	279.5	335.4	307.5
77.5°	464.2	452.3	457.4	500.6	493.0	561.6	282.9	202.5	238.0	258.4	221.1
80°	224.5	216.9	210.1	208.4	204.1	195.7	177.9	168.6	193.1	170.3	146.5
82.5°	145.7	137.2	133.8	127.1	127.9	138.9	155.0	161.8	156.7	117.7	99.1
85°	82.2	81.3	79.6	81.3	84.7	111.0	166.0	151.6	126.2	83.0	74.5
87.5°	49.1	46.6	47.4	48.3	50.0	82.2	131.3	109.3	80.5	43.2	44.0
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°	1337.5	1337.5	1337.5	1337.5
2.5°	1299.4	1296.0	1296.0	1295.2
5°	1278.2	1273.2	1272.3	1272.3
7.5°	1274.8	1268.1	1267.2	1264.7
10°	1290.1	1287.6	1288.4	1285.9
12.5°	1338.4	1341.8	1345.2	1345.2
15°	1412.1	1409.5	1413.8	1409.5
17.5°	1466.3	1444.3	1439.2	1436.6
20°	1468.0	1422.2	1407.0	1404.5
22.5°	1415.5	1347.7	1322.3	1318.0
25°	1326.5	1241.0	1208.8	1205.4
27.5°	1214.7	1119.0	1071.6	1069.9
30°	1080.0	966.5	906.4	897.1
32.5°	915.7	781.0	717.5	697.1
35°	725.9	587.9	528.6	526.9
37.5°	542.1	434.5	396.4	394.7
40°	397.3	341.4	327.0	324.4
42.5°	324.4	301.6	295.6	293.1
45°	290.5	281.2	277.8	275.3
47.5°	270.2	264.3	261.7	261.7
50°	254.1	252.4	250.7	250.7
52.5°	243.1	242.3	240.6	239.7
55°	233.8	230.4	231.3	230.4
57.5°	227.9	222.8	222.8	222.8
60°	224.5	215.2	215.2	216.0
62.5°	225.3	210.9	210.1	210.1
65°	232.1	208.4	203.3	204.1
67°	240.6	205.8	195.7	194.8
67.5°	243.1	204.1	193.1	192.3
70°	253.3	199.1	180.4	178.7
72.5°	255.0	191.4	167.7	166.0
75°	237.2	181.3	157.6	153.3
77.5°	184.7	155.9	142.3	142.3
80°	129.6	119.4	101.6	100.8
82.5°	94.9	89.8	74.5	72.8
85°	69.5	65.2	55.1	55.1
87.5°	43.2	41.5	35.6	33.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)