

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: P144873

Luminaire Tested: **LDRL-SL2-F06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144873
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-F06-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12240.2 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

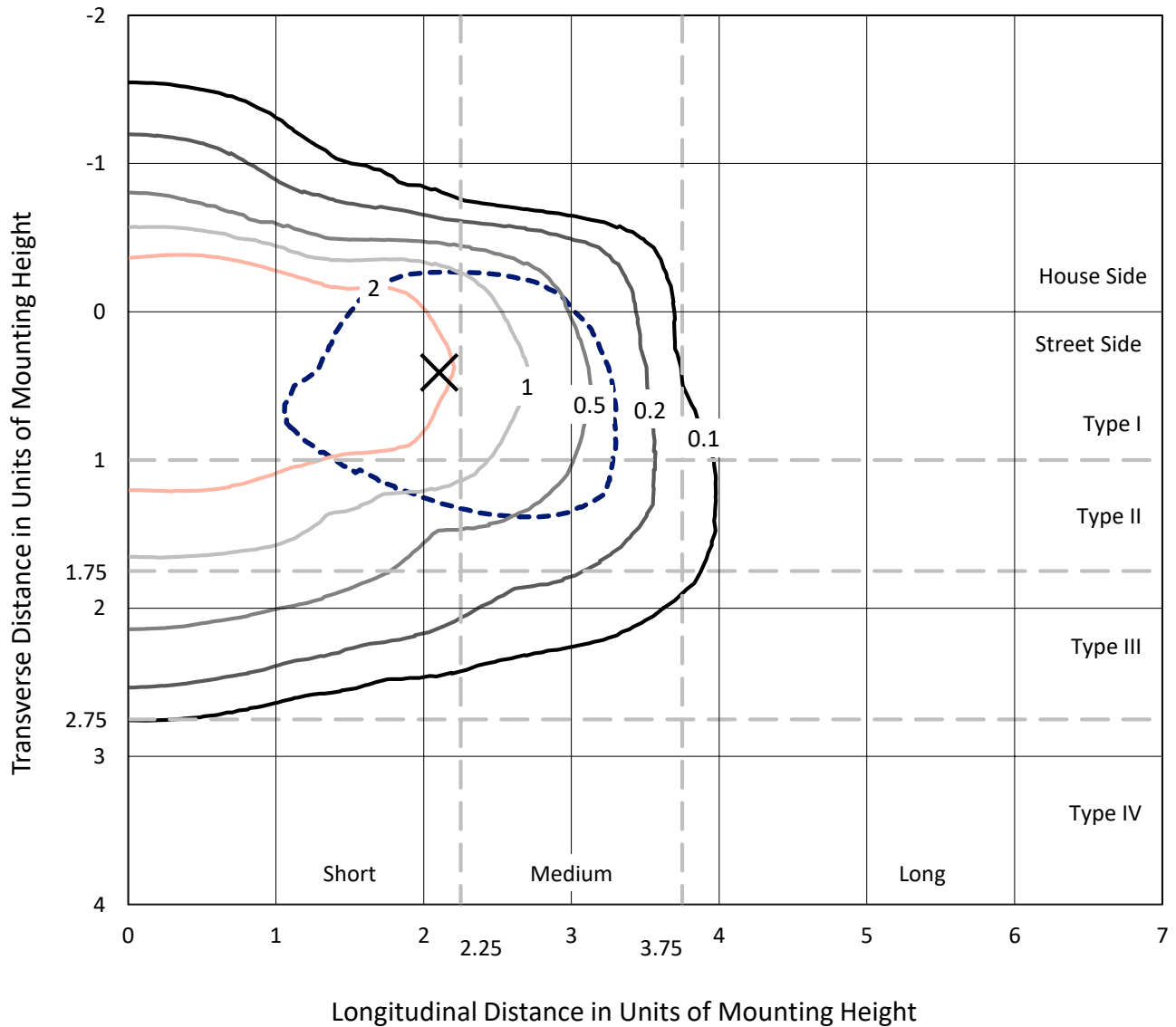
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

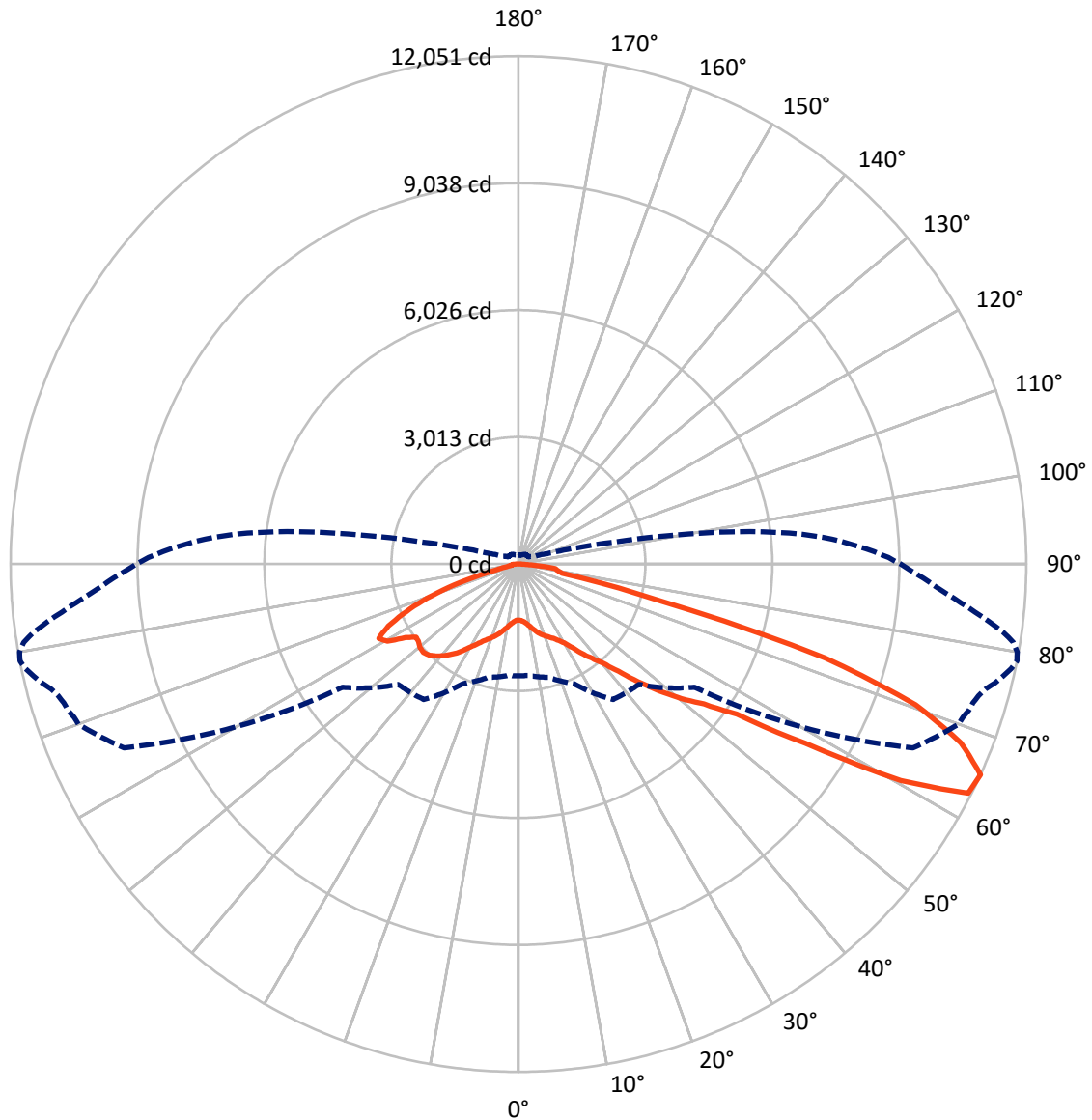
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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	2778.4	0.0	2778.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9461.8	0.0	9461.8
	% Fixture	77.3	0.0	77.3
Total	Lumens	12240.2	0.0	12240.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.1	1.1
10°-20°	429.8	3.5
20°-30°	741.0	6.1
30°-40°	1208.4	9.9
40°-50°	2017.3	16.5
50°-60°	2727.7	22.3
60°-70°	3388.6	27.7
70°-80°	1356.9	11.1
80°-90°	238.4	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°	12240.2	100.0
0°-180°	12240.2	100.0



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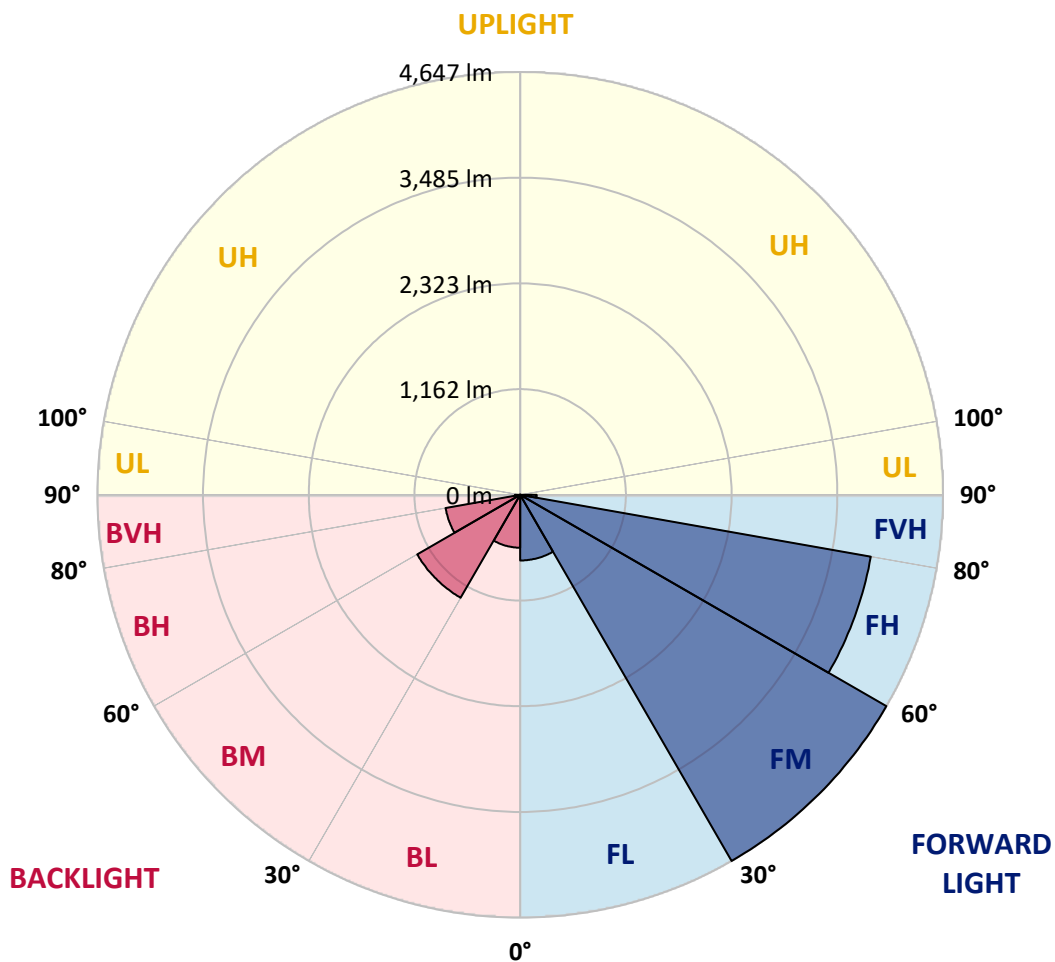
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	721.8	5.9			
FM (30°-60°)	4646.5	38.0			
FH (60°-80°)	3912.6	32.0			G2/5000
FVH (80°-90°)	180.8	1.5			G2/225
BL (0°-30°)	581.1	4.7	B2/1000		
BM (30°-60°)	1306.8	10.7	B2/2500		
BH (60°-80°)	832.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	57.6	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°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1340.2	1339.4	1343.6	1346.9	1346.9	1348.6	1347.8	1342.7	1343.6	1345.3	1343.6
5°	1355.3	1351.9	1356.1	1361.1	1364.5	1368.7	1372.8	1373.7	1377.0	1377.0	1376.2
7.5°	1387.9	1385.4	1391.2	1392.9	1400.4	1407.1	1415.5	1421.3	1424.7	1426.4	1428.9
10°	1443.9	1442.2	1443.9	1447.3	1450.6	1458.1	1472.3	1484.9	1492.4	1492.4	1495.8
12.5°	1511.6	1504.9	1506.6	1499.9	1501.6	1517.5	1534.2	1555.1	1567.7	1569.3	1571.0
15°	1564.3	1561.0	1558.5	1549.3	1555.9	1576.9	1602.8	1632.9	1643.7	1652.9	1652.1
17.5°	1613.6	1609.5	1603.6	1591.1	1597.8	1631.2	1670.5	1703.9	1722.3	1724.0	1725.7
20°	1672.2	1667.1	1656.3	1630.4	1628.7	1675.5	1728.2	1764.1	1780.9	1788.4	1790.9
22.5°	1746.6	1739.9	1719.8	1669.7	1656.3	1711.5	1774.2	1818.5	1836.0	1843.6	1847.7
25°	1841.9	1828.5	1796.7	1718.1	1690.6	1748.2	1823.5	1877.0	1901.3	1908.8	1913.8
27.5°	1928.0	1918.0	1879.5	1786.7	1739.1	1797.6	1883.7	1952.3	1985.7	1994.9	2002.4
30°	2028.3	2014.1	1983.2	1884.5	1821.0	1872.8	1982.4	2069.3	2110.3	2111.1	2127.8
32.5°	2264.1	2254.9	2226.5	2117.8	2010.8	2014.1	2116.1	2235.7	2276.7	2283.3	2298.4
35°	2613.6	2610.3	2609.4	2549.2	2469.8	2387.9	2395.4	2486.5	2514.1	2525.0	2530.0
37.5°	2843.5	2872.8	2943.8	2987.3	2967.3	2984.8	2892.8	2781.6	2765.8	2754.1	2759.1
40°	3041.7	3067.6	3211.4	3412.1	3534.1	3620.2	3539.1	3198.0	3070.9	3034.1	3019.9
42.5°	3158.7	3188.0	3393.7	3714.7	4025.7	4229.7	4251.5	3777.4	3454.7	3450.5	3397.0
45°	3222.3	3251.5	3497.3	3929.6	4369.4	4737.2	4927.9	4490.6	4016.5	3981.4	3907.0
47.5°	3209.7	3237.3	3493.2	4009.0	4572.5	5074.2	5455.4	5211.3	4664.5	4580.1	4477.2
50°	3056.7	3076.8	3345.2	3879.4	4518.2	5214.6	5816.6	5872.6	5397.7	5283.2	5129.4
52.5°	2898.7	2934.7	3157.0	3649.5	4271.5	5127.7	6032.3	6474.6	6082.5	6003.9	5806.6
55°	2813.4	2841.8	3023.3	3443.8	4011.5	4830.9	6121.8	7042.3	6914.4	6882.6	6743.0
57.5°	2810.1	2837.7	2982.3	3319.2	3800.0	4521.5	6147.7	7919.4	8294.8	8303.1	8263.0
60°	2947.2	2975.6	3096.9	3379.4	3734.8	4256.5	6054.9	9163.5	9992.9	10066.4	10189.3
62.5°	2966.4	2979.8	3126.1	3507.4	3972.2	4058.3	5672.8	10199.4	11160.0	11227.8	11295.5
65°	2653.7	2652.9	2782.5	3133.6	3922.9	4038.3	5098.4	10326.5	11113.2	11154.2	11238.6
67.5°	1979.0	1962.3	2035.9	2356.9	3112.7	4043.3	4417.9	9367.5	10247.0	10324.8	10353.2
70°	1020.0	1045.9	1096.1	1292.6	1976.5	3254.9	3795.0	7903.5	8995.4	9024.7	9125.8
72.5°	418.9	408.0	442.3	543.5	989.1	2151.2	3139.5	6237.2	7429.4	7409.4	7427.8
75°	233.3	236.6	246.6	283.4	480.7	1080.2	2697.2	4415.4	5052.4	4706.3	4601.8
77.5°	187.3	189.0	189.8	196.5	262.5	576.1	2070.1	2907.9	2540.9	2359.4	2290.0
80°	137.1	146.3	156.3	158.0	180.6	326.9	1135.4	2448.1	2144.6	1994.1	1870.3
82.5°	110.4	114.5	136.3	139.6	143.8	194.8	514.2	2299.2	2136.2	1982.4	1811.8
85°	66.1	73.6	111.2	112.0	113.7	118.7	284.3	936.4	1164.7	1029.2	942.3
87.5°	23.4	30.1	55.2	46.0	58.5	48.5	124.6	313.5	386.3	367.0	325.2
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°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1342.7	1342.7	1344.4	1343.6	1343.6	1343.6	1343.6	1341.9	1341.9	1339.4	1341.1
5°	1376.2	1375.4	1376.2	1377.0	1376.2	1377.9	1377.0	1376.2	1377.0	1376.2	1377.0
7.5°	1429.7	1425.5	1431.4	1428.0	1427.2	1432.2	1429.7	1432.2	1433.0	1432.2	1431.4
10°	1497.4	1499.9	1499.9	1499.9	1498.3	1503.3	1504.1	1505.8	1506.6	1510.0	1510.0
12.5°	1575.2	1576.0	1579.4	1578.5	1580.2	1586.0	1590.2	1591.1	1591.9	1594.4	1591.1
15°	1658.8	1660.5	1660.5	1668.0	1665.5	1673.8	1676.3	1676.3	1677.2	1687.2	1688.1
17.5°	1733.2	1733.2	1739.9	1739.9	1746.6	1748.2	1755.8	1756.6	1760.0	1769.2	1770.0
20°	1795.9	1799.2	1803.4	1808.4	1811.0	1816.0	1821.0	1826.0	1830.2	1837.7	1838.5
22.5°	1855.3	1858.6	1865.3	1868.6	1874.5	1877.8	1882.0	1887.9	1894.6	1904.6	1907.1
25°	1923.8	1927.2	1934.7	1939.7	1946.4	1951.4	1958.9	1966.5	1970.6	1980.7	1988.2
27.5°	2010.8	2020.8	2030.8	2033.4	2038.4	2050.1	2060.1	2070.1	2079.3	2084.4	2093.6
30°	2137.9	2137.9	2158.8	2158.8	2168.0	2178.8	2185.5	2196.4	2213.1	2218.1	2229.8
32.5°	2308.4	2312.6	2320.1	2342.7	2359.4	2364.4	2369.5	2385.3	2395.4	2407.9	2422.1
35°	2551.7	2555.9	2560.1	2581.8	2601.1	2606.1	2611.1	2621.1	2637.8	2659.6	2652.9
37.5°	2769.9	2772.5	2785.8	2810.1	2820.9	2834.3	2838.5	2856.9	2866.1	2886.2	2887.0
40°	3032.5	3026.6	3034.1	3061.7	3078.5	3077.6	3091.0	3124.4	3131.1	3140.3	3163.7
42.5°	3398.7	3376.9	3400.3	3409.5	3434.6	3450.5	3477.3	3499.8	3515.7	3550.8	3567.6
45°	3871.9	3849.3	3868.6	3872.7	3924.6	3940.5	3980.6	4010.7	4045.0	4085.1	4096.8
47.5°	4411.2	4369.4	4346.0	4371.9	4433.7	4459.7	4499.0	4527.4	4563.3	4584.2	4577.6
50°	5035.7	4935.4	4888.6	4875.2	4919.5	4956.3	5017.3	5030.7	5047.4	5046.6	5047.4
52.5°	5732.2	5627.7	5529.9	5462.1	5455.4	5504.8	5519.8	5523.2	5518.1	5480.5	5457.1
55°	6641.8	6634.3	6531.5	6391.0	6381.8	6376.0	6288.2	6277.3	6257.2	6199.6	6120.1
57.5°	8292.3	8375.9	8308.2	8304.8	8231.2	8182.7	8021.4	7941.1	7856.7	7700.3	7575.7
60°	10200.2	10321.4	10388.3	10417.6	10561.4	10561.4	10429.3	10315.6	10178.5	9940.2	9707.8
62.5°	11349.0	11455.2	11553.8	11708.5	11891.6	11972.7	11979.4	11878.2	11705.2	11433.4	11104.8
65°	11276.2	11354.8	11474.4	11656.7	11808.0	11953.5	12051.3	12020.4	11888.3	11616.5	11258.7
67.5°	10452.7	10567.2	10721.9	10890.0	11030.4	11167.6	11325.6	11337.3	11302.2	11043.8	10720.3
70°	9181.9	9329.0	9426.8	9638.4	9701.9	9840.7	9999.5	10075.6	10018.8	9819.8	9630.0
72.5°	7459.5	7575.7	7592.5	7500.5	7532.3	7566.5	7605.0	7426.9	7358.4	7092.5	6970.4
75°	4523.2	4370.2	4241.4	4113.5	3731.4	3596.0	3387.8	2977.3	2930.5	2648.7	2453.1
77.5°	2151.2	2086.9	1970.6	1775.8	1516.7	1268.3	1052.6	855.3	781.7	643.8	548.5
80°	1800.9	1724.0	1619.5	1474.8	1293.4	1112.8	942.3	796.0	648.8	528.4	422.2
82.5°	1652.1	1518.3	1371.2	1246.6	1118.7	995.8	881.2	749.1	671.4	541.8	442.3
85°	835.2	731.6	592.8	499.1	421.4	342.8	296.8	253.3	225.7	179.8	156.3
87.5°	280.1	229.1	170.6	144.6	130.4	112.0	102.8	97.8	95.3	84.4	75.2
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1341.1	1341.1	1341.1	1341.1	1340.2	1340.2	1340.2	1340.2	1340.2	1340.2	1341.1
5°	1375.4	1375.4	1376.2	1378.7	1373.7	1375.4	1377.0	1374.5	1377.0	1374.5	1377.9
7.5°	1430.5	1433.0	1431.4	1434.7	1433.0	1438.1	1434.7	1432.2	1433.9	1433.9	1434.7
10°	1508.3	1511.6	1509.1	1510.8	1510.8	1514.1	1510.0	1510.8	1511.6	1510.0	1510.8
12.5°	1594.4	1596.1	1595.2	1600.3	1597.8	1600.3	1597.8	1601.1	1602.8	1604.4	1604.4
15°	1688.1	1689.7	1694.7	1693.9	1698.9	1697.2	1698.1	1693.9	1702.3	1697.2	1698.9
17.5°	1774.2	1773.3	1780.0	1782.5	1783.4	1784.2	1786.7	1783.4	1784.2	1786.7	1785.0
20°	1841.1	1846.9	1848.6	1855.3	1860.3	1862.0	1861.1	1863.6	1867.0	1863.6	1863.6
22.5°	1912.1	1920.5	1923.0	1927.2	1932.2	1933.0	1938.0	1940.5	1942.2	1941.4	1942.2
25°	1997.4	2003.3	2009.1	2017.5	2023.3	2024.2	2028.3	2031.7	2032.5	2031.7	2036.7
27.5°	2101.9	2109.4	2117.0	2127.0	2133.7	2135.4	2144.6	2144.6	2149.6	2152.1	2153.7
30°	2236.5	2239.0	2258.3	2268.3	2265.8	2277.5	2290.0	2289.2	2295.0	2296.7	2300.9
32.5°	2432.2	2432.2	2448.9	2461.4	2474.8	2470.6	2489.9	2486.5	2495.7	2500.7	2498.2
35°	2669.6	2678.0	2690.5	2698.0	2712.3	2719.8	2733.2	2740.7	2744.9	2744.0	2734.8
37.5°	2914.6	2928.0	2933.0	2951.4	2965.6	2978.1	2979.8	2971.4	2974.8	2958.1	2953.0
40°	3194.7	3213.9	3225.6	3253.2	3251.5	3267.4	3269.1	3244.8	3240.7	3218.9	3196.3
42.5°	3586.0	3612.7	3621.9	3642.8	3626.1	3633.6	3591.8	3581.8	3548.3	3513.2	3462.2
45°	4113.5	4100.1	4106.0	4100.1	4055.8	4023.2	3989.0	3939.6	3890.3	3822.6	3749.8
47.5°	4577.6	4584.2	4540.8	4513.2	4441.3	4395.3	4332.6	4246.5	4186.3	4095.1	3999.0
50°	5028.2	4953.8	4892.8	4829.2	4765.7	4681.2	4586.7	4510.7	4422.9	4309.2	4191.3
52.5°	5394.4	5298.3	5224.7	5134.4	5048.3	4954.6	4856.0	4745.6	4630.2	4516.5	4371.0
55°	6043.2	5903.6	5809.1	5651.1	5553.3	5422.0	5345.1	5202.1	5041.6	4891.1	4736.4
57.5°	7435.3	7226.3	7118.4	7028.9	6876.8	6661.1	6524.0	6289.0	6059.9	5899.4	5641.9
60°	9532.2	9319.8	9140.9	8929.4	8696.1	8403.5	8273.0	7996.3	7668.6	7403.5	7063.2
62.5°	10839.0	10545.5	10255.4	9958.6	9724.5	9495.4	9225.3	8946.1	8621.7	8261.3	7889.3
65°	10891.6	10539.7	10192.7	9890.0	9615.8	9318.1	9064.8	8781.4	8440.3	8069.0	7682.8
67.5°	10344.9	9951.1	9579.0	9247.1	8933.5	8657.6	8392.6	8125.9	7760.5	7449.5	7054.0
70°	9255.4	8895.9	8559.0	8181.1	7941.1	7630.9	7372.6	7091.7	6830.0	6539.0	6168.6
72.5°	6798.2	6527.3	6142.7	5982.2	5853.4	5524.8	5332.5	5309.1	5141.9	4793.3	4516.5
75°	2528.3	2152.1	2038.4	2106.1	1993.2	2030.8	2016.6	1936.4	1939.7	1880.3	1810.1
77.5°	495.0	459.8	432.3	439.8	408.8	395.5	423.9	415.5	400.5	404.7	398.0
80°	336.9	285.1	258.3	248.3	235.8	229.9	228.3	225.7	220.7	218.2	210.7
82.5°	331.9	246.6	194.8	167.2	157.2	152.2	148.0	147.2	145.5	144.6	147.2
85°	132.1	107.0	97.8	89.5	87.0	84.4	84.4	83.6	82.8	84.4	87.8
87.5°	64.4	54.3	49.3	45.1	43.5	42.6	42.6	43.5	44.3	47.7	54.3
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1339.4	1340.2	1338.6	1339.4	1338.6	1336.9	1336.1	1338.6	1337.7	1336.9	1336.9
5°	1373.7	1377.0	1375.4	1373.7	1373.7	1372.8	1372.8	1372.8	1372.0	1372.8	1370.3
7.5°	1433.0	1432.2	1432.2	1430.5	1428.9	1430.5	1429.7	1427.2	1428.0	1426.4	1423.8
10°	1509.1	1506.6	1510.8	1510.8	1507.5	1506.6	1504.9	1502.4	1502.4	1499.9	1499.9
12.5°	1599.4	1596.9	1602.8	1598.6	1593.6	1592.7	1587.7	1586.0	1588.6	1587.7	1586.0
15°	1691.4	1692.2	1694.7	1693.9	1688.1	1688.1	1681.4	1682.2	1677.2	1675.5	1671.3
17.5°	1780.9	1781.7	1779.2	1779.2	1775.0	1772.5	1765.0	1765.8	1762.5	1755.8	1750.8
20°	1861.1	1860.3	1854.4	1859.4	1851.1	1849.4	1842.7	1836.0	1837.7	1831.0	1821.0
22.5°	1939.7	1938.0	1936.4	1933.9	1929.7	1928.0	1920.5	1919.6	1911.3	1901.3	1892.9
25°	2030.8	2030.0	2027.5	2028.3	2020.0	2020.8	2007.4	2004.1	1999.1	1988.2	1981.5
27.5°	2148.7	2148.7	2142.0	2139.5	2137.0	2133.7	2122.0	2113.6	2101.1	2088.5	2075.2
30°	2293.4	2291.7	2290.0	2283.3	2274.1	2269.1	2248.2	2234.8	2218.1	2194.7	2174.7
32.5°	2499.9	2485.7	2474.0	2458.9	2443.9	2428.0	2395.4	2372.8	2346.0	2308.4	2276.7
35°	2729.8	2705.6	2693.0	2662.1	2633.7	2601.9	2562.6	2516.6	2479.8	2430.5	2378.7
37.5°	2919.6	2901.2	2867.8	2832.6	2792.5	2732.3	2688.0	2638.7	2574.3	2520.0	2457.2
40°	3153.7	3111.9	3064.2	3005.7	2950.5	2882.8	2821.8	2750.7	2672.1	2593.5	2511.6
42.5°	3399.5	3335.1	3256.5	3188.8	3105.2	3016.6	2937.2	2841.0	2740.7	2635.3	2525.8
45°	3650.3	3570.9	3466.4	3370.2	3254.0	3142.8	3029.1	2897.9	2760.7	2620.3	2482.3
47.5°	3880.3	3764.0	3645.3	3515.7	3382.0	3239.0	3077.6	2905.4	2724.8	2540.0	2367.8
50°	4060.9	3915.4	3765.7	3616.1	3452.2	3266.6	3063.4	2838.5	2616.1	2394.5	2196.4
52.5°	4220.5	4057.5	3873.6	3688.0	3485.6	3257.4	3003.2	2738.2	2467.3	2222.3	1999.9
55°	4529.9	4325.1	4082.6	3843.5	3587.6	3300.0	2983.1	2658.7	2346.9	2080.2	1843.6
57.5°	5370.2	5093.4	4718.0	4386.1	4061.7	3642.8	3196.3	2796.7	2399.6	2084.4	1821.0
60°	6693.7	6243.0	5813.3	5307.5	4782.4	4208.0	3609.4	3070.9	2586.8	2191.4	1874.5
62.5°	7461.2	6985.5	6432.8	5820.0	5139.4	4439.6	3752.3	3123.6	2592.7	2162.1	1811.0
65°	7253.9	6775.6	6167.8	5540.7	4816.7	4101.0	3418.7	2815.1	2300.1	1902.1	1566.0
67.5°	6638.5	6138.5	5567.5	4871.9	4179.6	3516.6	2894.5	2326.0	1870.3	1499.1	1202.3
70°	5743.1	5298.3	4748.1	4106.8	3435.5	2839.3	2315.1	1802.6	1417.2	1076.9	842.8
72.5°	4262.3	3868.6	3524.9	2989.0	2497.4	2030.0	1602.8	1254.1	922.2	697.3	536.8
75°	1789.2	1656.3	1600.3	1403.8	1220.7	1000.8	753.3	600.3	486.6	413.9	328.6
77.5°	433.9	433.9	408.0	382.1	351.2	317.7	280.9	250.8	235.8	222.4	211.5
80°	210.7	209.0	202.3	201.5	195.6	188.1	183.9	178.1	175.6	172.2	170.6
82.5°	148.0	147.2	144.6	148.0	147.2	150.5	152.2	153.0	153.0	153.8	154.7
85°	93.6	97.0	103.7	112.0	119.6	128.8	137.1	143.8	148.8	153.0	156.3
87.5°	59.4	67.7	72.7	85.3	97.8	112.0	127.9	134.6	140.5	141.3	136.3
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°	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2	1330.2
2.5°	1336.9	1336.1	1337.7	1336.1	1336.1	1335.2	1332.7	1330.2	1327.7	1326.9	1324.4
5°	1369.5	1369.5	1371.2	1367.8	1368.7	1365.3	1357.8	1349.4	1341.9	1335.2	1327.7
7.5°	1424.7	1422.2	1423.0	1422.2	1420.5	1413.8	1397.1	1376.2	1356.1	1335.2	1318.5
10°	1498.3	1493.2	1493.2	1491.6	1489.1	1479.9	1444.8	1402.9	1361.1	1323.5	1295.9
12.5°	1580.2	1581.0	1574.3	1570.2	1566.0	1546.8	1494.1	1427.2	1361.1	1300.9	1256.6
15°	1665.5	1664.6	1657.1	1654.6	1645.4	1617.0	1537.6	1439.7	1345.3	1256.6	1190.6
17.5°	1742.4	1739.1	1731.5	1726.5	1716.5	1678.9	1566.8	1433.9	1303.5	1187.2	1104.5
20°	1812.6	1808.4	1801.8	1792.6	1782.5	1728.2	1577.7	1403.8	1237.4	1104.5	1020.9
22.5°	1885.4	1876.2	1868.6	1856.1	1845.2	1772.5	1570.2	1350.3	1162.2	1012.5	923.0
25°	1966.5	1955.6	1939.7	1924.7	1907.9	1808.4	1549.3	1283.4	1071.9	913.0	822.7
27.5°	2054.3	2038.4	2017.5	1998.2	1971.5	1835.2	1513.3	1209.0	973.2	814.3	720.7
30°	2147.1	2117.8	2091.9	2062.6	2028.3	1847.7	1461.5	1117.0	864.5	714.0	620.4
32.5°	2237.4	2198.1	2159.6	2117.0	2070.1	1842.7	1387.9	1008.3	755.8	620.4	541.8
35°	2329.3	2272.5	2219.0	2161.3	2104.4	1817.6	1286.7	887.9	653.0	542.6	485.8
37.5°	2392.0	2321.0	2249.9	2180.5	2111.9	1763.3	1152.1	753.3	560.2	486.6	445.6
40°	2423.8	2336.9	2249.9	2163.8	2079.3	1673.0	994.9	630.4	494.1	444.8	415.5
42.5°	2414.6	2306.8	2198.9	2096.9	1993.2	1529.2	824.4	529.2	448.1	412.2	386.3
45°	2338.5	2209.8	2086.9	1979.0	1849.4	1344.4	677.2	466.5	413.0	385.4	361.2
47.5°	2195.6	2051.7	1901.3	1779.2	1658.0	1130.4	563.5	427.2	382.1	359.5	335.3
50°	2013.3	1846.9	1696.4	1564.3	1445.6	930.6	485.8	393.8	357.0	337.8	311.9
52.5°	1812.6	1633.7	1496.6	1357.8	1241.6	776.7	431.4	357.0	332.8	312.7	291.8
55°	1646.2	1480.7	1341.1	1201.5	1084.4	679.7	386.3	328.6	310.2	289.3	272.6
57.5°	1601.9	1413.0	1260.8	1128.7	1008.3	620.4	353.7	302.7	290.1	274.2	255.8
60°	1620.3	1412.1	1241.6	1096.9	970.7	572.7	329.4	285.1	275.1	260.9	241.6
62.5°	1554.3	1334.4	1162.2	1008.3	888.8	512.5	311.9	276.7	270.1	250.8	229.1
65°	1324.4	1122.9	957.3	824.4	721.5	431.4	297.6	284.3	277.6	244.1	220.7
67.5°	1008.3	840.3	707.3	607.8	533.4	357.0	294.3	309.4	296.0	247.5	218.2
70°	697.3	570.2	484.9	424.7	377.9	301.0	305.2	336.9	317.7	258.3	232.4
72.5°	442.3	369.5	327.7	305.2	282.6	254.2	302.7	333.6	307.7	260.0	232.4
75°	283.4	253.3	239.1	230.8	224.1	221.6	266.7	274.2	247.5	225.7	216.5
77.5°	200.7	195.6	193.1	192.3	193.1	199.0	220.7	206.5	179.8	180.6	185.6
80°	169.7	169.7	168.1	168.9	170.6	173.1	176.4	152.2	138.0	148.8	165.5
82.5°	155.5	158.0	159.7	161.4	163.9	160.5	149.7	115.4	111.2	144.6	162.2
85°	158.0	158.0	158.9	160.5	161.4	144.6	124.6	87.0	85.3	162.2	153.0
87.5°	135.4	133.8	127.9	123.7	117.9	99.5	82.8	48.5	50.2	100.3	107.0
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):

	175°	180°
0°	1330.2	1330.2
2.5°	1323.5	1323.5
5°	1323.5	1323.5
7.5°	1312.6	1309.3
10°	1280.9	1276.7
12.5°	1232.4	1228.2
15°	1158.0	1153.0
17.5°	1065.2	1056.8
20°	968.2	956.5
22.5°	871.2	862.0
25°	771.7	763.3
27.5°	673.9	665.5
30°	583.6	580.2
32.5°	516.7	513.4
35°	467.4	465.7
37.5°	433.9	432.3
40°	404.7	403.0
42.5°	377.9	375.4
45°	351.2	352.0
47.5°	324.4	323.6
50°	301.0	301.0
52.5°	281.8	280.9
55°	264.2	263.4
57.5°	246.6	245.8
60°	231.6	229.1
62.5°	217.4	215.7
65°	208.2	207.3
67.5°	201.5	199.0
70°	199.8	193.1
72.5°	194.8	186.4
75°	183.1	178.9
77.5°	161.4	156.3
80°	124.6	115.4
82.5°	104.5	90.3
85°	76.9	71.1
87.5°	56.0	44.3
90°	0.0	0.0

(END OF REPORT)