

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: P144867

Luminaire Tested: **LDRL-SL2-F05-E-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144867
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-F05-E-7060
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12401.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

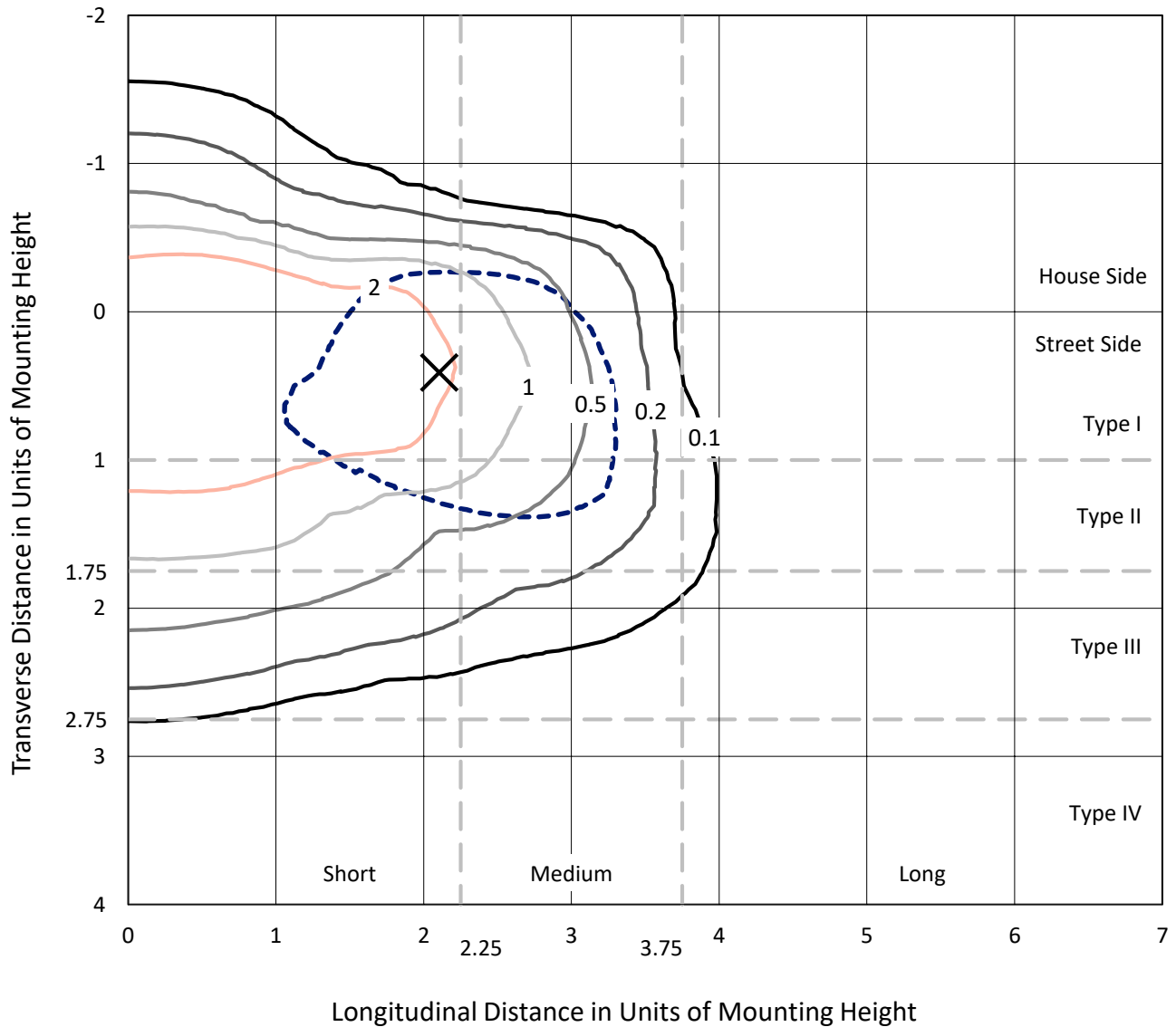
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

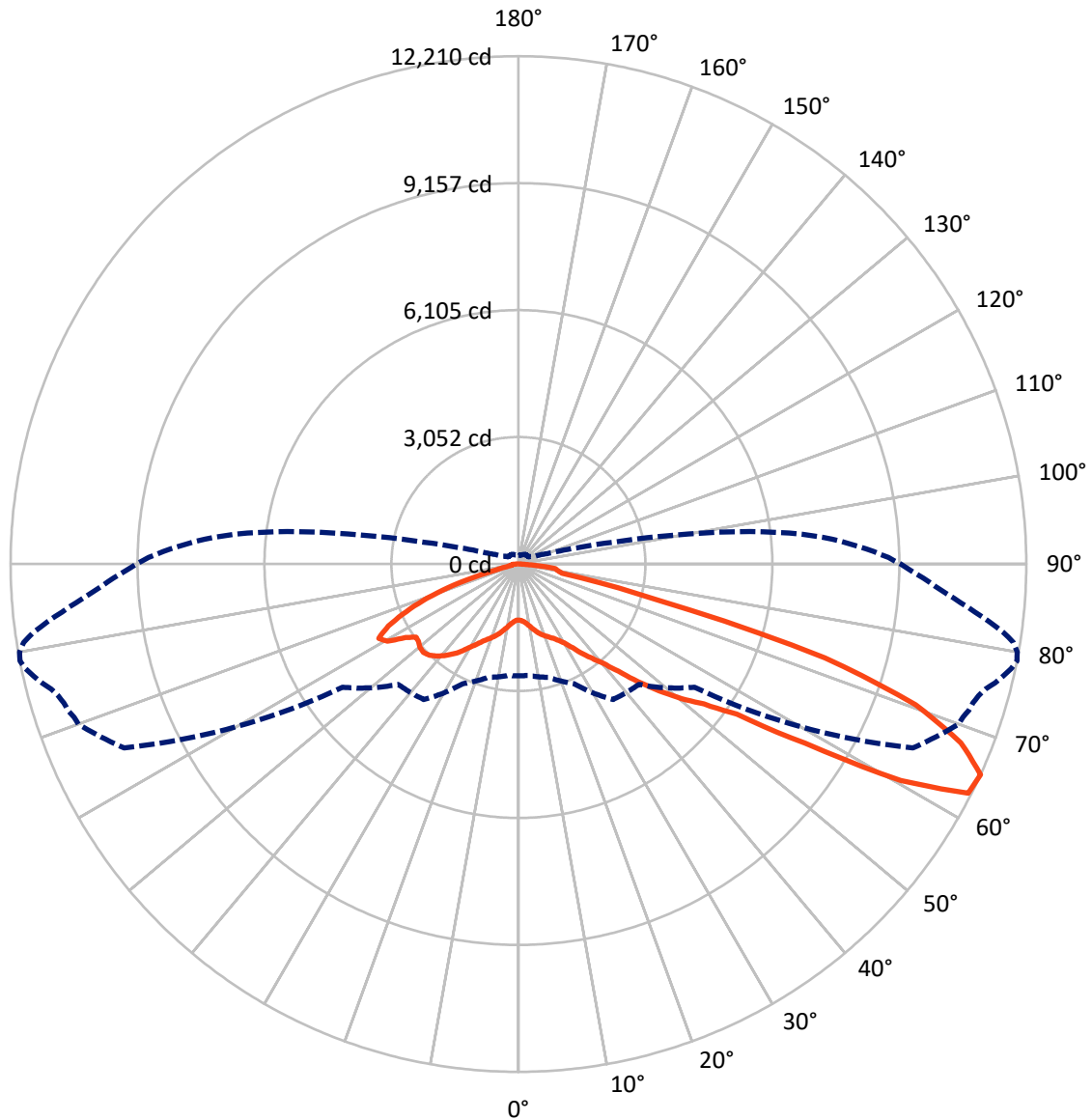
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Semi-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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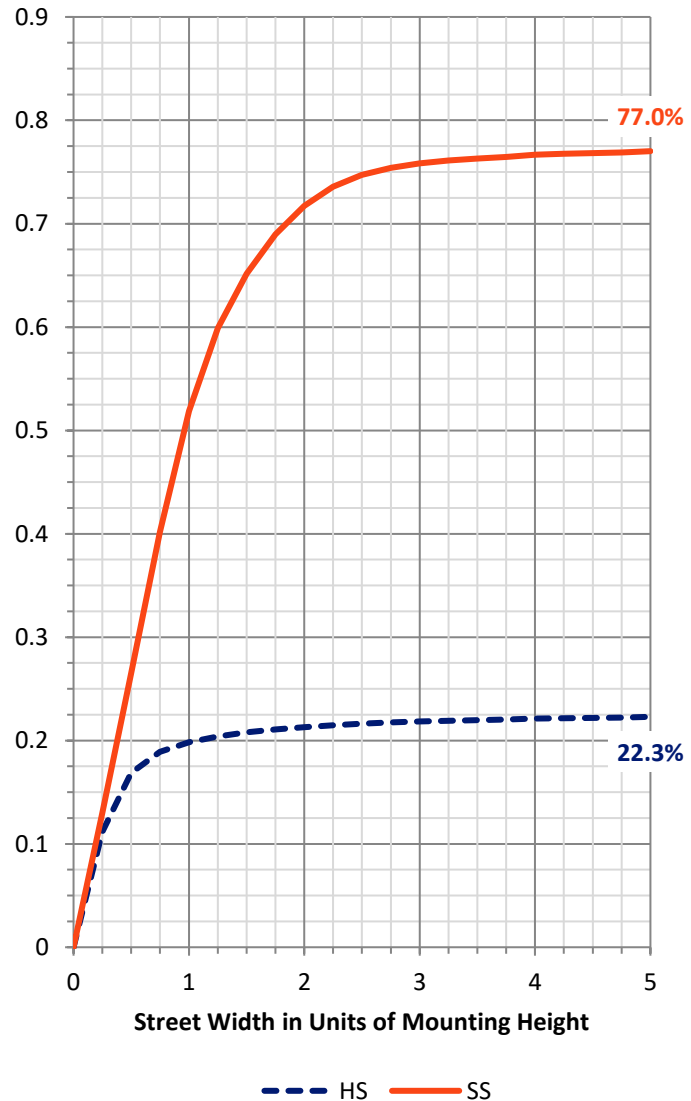
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2814.9	0.0	2814.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	9586.2	0.0	9586.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	12401.1	0.0	12401.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	1.1
10°-20°	435.5	3.5
20°-30°	750.7	6.1
30°-40°	1224.2	9.9
40°-50°	2043.8	16.5
50°-60°	2763.6	22.3
60°-70°	3433.2	27.7
70°-80°	1374.8	11.1
80°-90°	241.6	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°	12401.1	100.0
0°-180°	12401.1	100.0



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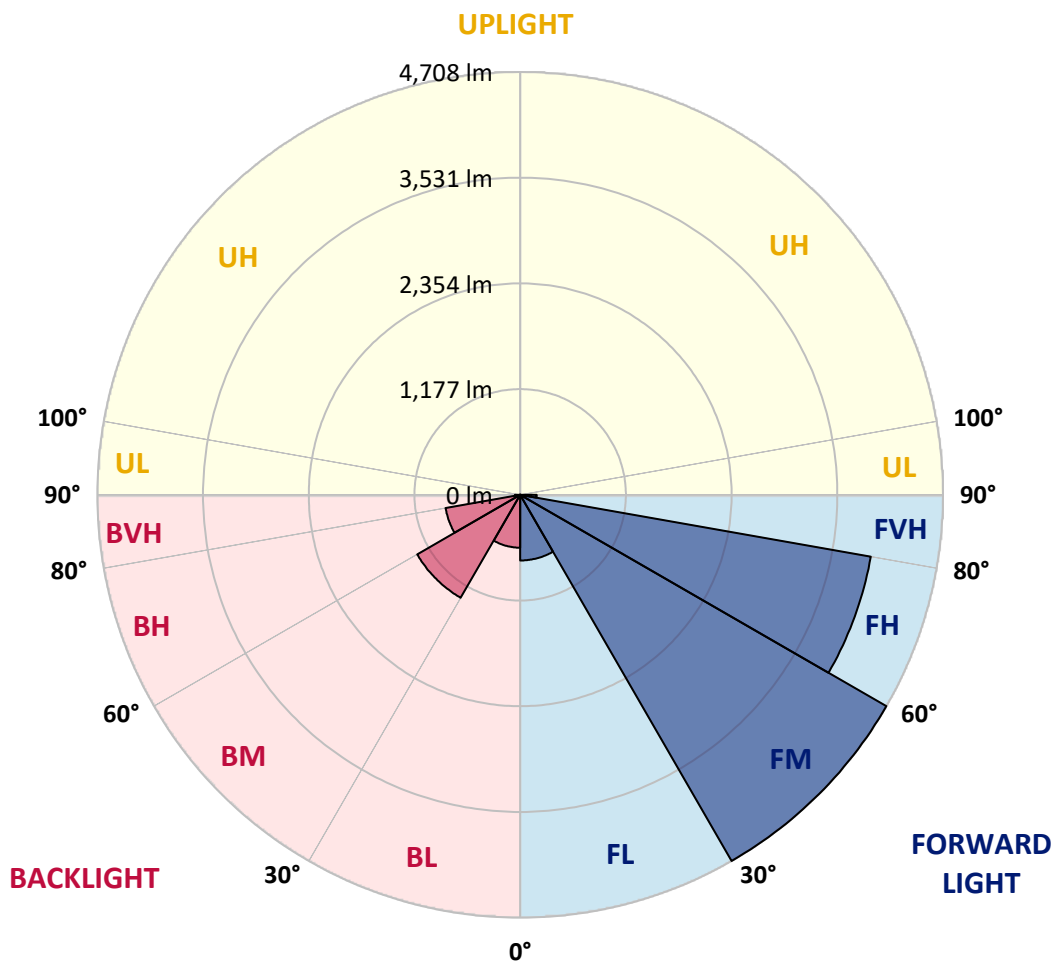
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.3	5.9			
FM (30°-60°)	4707.6	38.0			
FH (60°-80°)	3964.1	32.0			G2/5000
FVH (80°-90°)	183.2	1.5			G2/225
BL (0°-30°)	588.7	4.7	B2/1000		
BM (30°-60°)	1324.0	10.7	B2/2500		
BH (60°-80°)	843.9	6.8	B2/1000		G2/1000
BVH (80°-90°)	58.3	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°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1357.9	1357.0	1361.3	1364.6	1364.6	1366.3	1365.5	1360.4	1361.3	1362.9	1361.3
5°	1373.1	1369.7	1374.0	1379.0	1382.4	1386.7	1390.9	1391.7	1395.1	1395.1	1394.3
7.5°	1406.1	1403.6	1409.5	1411.2	1418.9	1425.6	1434.1	1440.0	1443.4	1445.1	1447.7
10°	1462.9	1461.2	1462.9	1466.3	1469.7	1477.3	1491.7	1504.4	1512.0	1512.0	1515.4
12.5°	1531.5	1524.7	1526.4	1519.7	1521.3	1537.4	1554.4	1575.6	1588.3	1590.0	1591.7
15°	1584.9	1581.5	1578.9	1569.6	1576.4	1597.6	1623.8	1654.3	1665.4	1674.7	1673.8
17.5°	1634.9	1630.6	1624.7	1612.0	1618.8	1652.6	1692.5	1726.3	1745.0	1746.7	1748.4
20°	1694.2	1689.1	1678.1	1651.8	1650.1	1697.5	1750.9	1787.3	1804.3	1811.9	1814.4
22.5°	1769.5	1762.8	1742.4	1691.6	1678.1	1734.0	1797.5	1842.4	1860.2	1867.8	1872.0
25°	1866.1	1852.6	1820.4	1740.7	1712.8	1771.2	1847.5	1901.7	1926.2	1933.9	1939.0
27.5°	1953.4	1943.2	1904.2	1810.2	1761.9	1821.2	1908.5	1977.9	2011.8	2021.1	2028.7
30°	2055.0	2040.6	2009.3	1909.3	1844.9	1897.4	2008.4	2096.5	2138.0	2138.9	2155.8
32.5°	2293.9	2284.6	2255.8	2145.6	2037.2	2040.6	2143.9	2265.1	2306.6	2313.4	2328.6
35°	2648.0	2644.6	2643.7	2582.7	2502.3	2419.2	2426.9	2519.2	2547.2	2558.2	2563.3
37.5°	2880.9	2910.6	2982.6	3026.6	3006.3	3024.1	2930.9	2818.2	2802.1	2790.3	2795.3
40°	3081.7	3107.9	3253.6	3456.9	3580.6	3667.8	3585.7	3240.1	3111.3	3074.0	3059.6
42.5°	3200.3	3229.9	3438.3	3763.6	4078.7	4285.4	4307.4	3827.1	3500.1	3495.9	3441.7
45°	3264.6	3294.3	3543.3	3981.3	4426.8	4799.5	4992.7	4549.6	4069.4	4033.8	3958.4
47.5°	3251.9	3279.9	3539.1	4061.7	4632.7	5140.9	5527.2	5279.8	4725.8	4640.3	4536.1
50°	3096.9	3117.2	3389.1	3930.4	4577.6	5283.2	5893.1	5949.9	5468.7	5352.7	5196.8
52.5°	2936.8	2973.2	3198.6	3697.5	4327.7	5195.1	6111.7	6559.8	6162.5	6082.9	5882.9
55°	2850.4	2879.2	3063.0	3489.1	4064.3	4894.4	6202.3	7134.9	7005.3	6973.1	6831.7
57.5°	2847.0	2875.0	3021.5	3362.9	3850.0	4581.0	6228.5	8023.5	8403.8	8412.3	8371.6
60°	2985.9	3014.7	3137.6	3423.9	3783.9	4312.5	6134.5	9283.9	10124.2	10198.8	10323.3
62.5°	3005.4	3019.0	3167.2	3553.5	4024.5	4111.7	5747.4	10333.5	11306.8	11375.4	11444.0
65°	2688.6	2687.8	2819.1	3174.8	3974.5	4091.4	5165.5	10462.2	11259.3	11300.8	11386.4
67.5°	2005.0	1988.1	2062.6	2387.9	3153.7	4096.5	4475.9	9490.6	10381.8	10460.5	10489.3
70°	1033.4	1059.7	1110.5	1309.6	2002.5	3297.7	3844.9	8007.4	9113.7	9143.3	9245.8
72.5°	424.4	413.4	448.1	550.6	1002.1	2179.5	3180.8	6319.2	7527.1	7506.8	7525.4
75°	236.3	239.7	249.9	287.2	487.1	1094.4	2732.7	4473.4	5118.9	4768.2	4662.3
77.5°	189.7	191.4	192.3	199.1	266.0	583.6	2097.4	2946.1	2574.3	2390.4	2320.1
80°	138.9	148.2	158.4	160.1	183.0	331.2	1150.3	2480.2	2172.7	2020.3	1894.9
82.5°	111.8	116.0	138.1	141.5	145.7	197.4	521.0	2329.5	2164.3	2008.4	1835.6
85°	66.9	74.5	112.7	113.5	115.2	120.3	288.0	948.7	1180.0	1042.8	954.7
87.5°	23.7	30.5	55.9	46.6	59.3	49.1	126.2	317.7	391.3	371.9	329.5
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°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1360.4	1360.4	1362.1	1361.3	1361.3	1361.3	1361.3	1359.6	1359.6	1357.0	1358.7
5°	1394.3	1393.4	1394.3	1395.1	1394.3	1396.0	1395.1	1394.3	1395.1	1394.3	1395.1
7.5°	1448.5	1444.3	1450.2	1446.8	1446.0	1451.0	1448.5	1451.0	1451.9	1451.0	1450.2
10°	1517.1	1519.7	1519.7	1519.7	1518.0	1523.0	1523.9	1525.6	1526.4	1529.8	1529.8
12.5°	1595.9	1596.7	1600.1	1599.3	1601.0	1606.9	1611.1	1612.0	1612.8	1615.4	1612.0
15°	1680.6	1682.3	1682.3	1689.9	1687.4	1695.8	1698.4	1698.4	1699.2	1709.4	1710.2
17.5°	1756.0	1756.0	1762.8	1762.8	1769.5	1771.2	1778.9	1779.7	1783.1	1792.4	1793.3
20°	1819.5	1822.9	1827.1	1832.2	1834.8	1839.8	1844.9	1850.0	1854.2	1861.9	1862.7
22.5°	1879.7	1883.0	1889.8	1893.2	1899.1	1902.5	1906.8	1912.7	1919.5	1929.6	1932.2
25°	1949.1	1952.5	1960.1	1965.2	1972.0	1977.1	1984.7	1992.3	1996.6	2006.7	2014.3
27.5°	2037.2	2047.4	2057.5	2060.1	2065.2	2077.0	2087.2	2097.4	2106.7	2111.8	2121.1
30°	2166.0	2166.0	2187.1	2187.1	2196.5	2207.5	2214.3	2225.3	2242.2	2247.3	2259.2
32.5°	2338.8	2343.0	2350.6	2373.5	2390.4	2395.5	2400.6	2416.7	2426.9	2439.6	2454.0
35°	2585.3	2589.5	2593.7	2615.8	2635.3	2640.3	2645.4	2655.6	2672.5	2694.5	2687.8
37.5°	2806.4	2808.9	2822.5	2847.0	2858.0	2871.6	2875.8	2894.5	2903.8	2924.1	2925.0
40°	3072.3	3066.4	3074.0	3102.0	3118.9	3118.1	3131.6	3165.5	3172.3	3181.6	3205.3
42.5°	3443.4	3421.3	3445.1	3454.4	3479.8	3495.9	3523.0	3545.9	3562.0	3597.5	3614.5
45°	3922.8	3899.9	3919.4	3923.7	3976.2	3992.3	4032.9	4063.4	4098.2	4138.8	4150.7
47.5°	4469.2	4426.8	4403.1	4429.4	4492.0	4518.3	4558.1	4586.9	4623.3	4644.5	4637.7
50°	5101.9	5000.3	4952.9	4939.3	4984.2	5021.5	5083.3	5096.9	5113.8	5112.9	5113.8
52.5°	5807.6	5701.7	5602.6	5533.9	5527.2	5577.1	5592.4	5595.8	5590.7	5552.6	5528.9
55°	6729.2	6721.5	6617.4	6475.0	6465.7	6459.8	6370.9	6359.8	6339.5	6281.1	6200.6
57.5°	8401.3	8486.0	8417.4	8414.0	8339.5	8290.3	8126.8	8045.5	7960.0	7801.6	7675.4
60°	10334.3	10457.1	10524.9	10554.6	10700.3	10700.3	10566.4	10451.2	10312.3	10070.9	9835.4
62.5°	11498.2	11605.8	11705.7	11862.4	12048.0	12130.1	12136.9	12034.4	11859.1	11583.8	11250.9
65°	11424.5	11504.1	11625.3	11809.9	11963.2	12110.6	12209.7	12178.4	12044.6	11769.3	11406.7
67.5°	10590.1	10706.2	10862.9	11033.2	11175.5	11314.4	11474.5	11486.3	11450.8	11189.0	10861.2
70°	9302.6	9451.7	9550.8	9765.1	9829.5	9970.1	10131.0	10208.1	10150.5	9948.9	9756.6
72.5°	7557.6	7675.4	7692.3	7599.1	7631.3	7666.0	7705.0	7524.6	7455.1	7185.7	7062.1
75°	4582.7	4427.7	4297.2	4167.6	3780.5	3643.3	3432.4	3016.4	2969.0	2683.5	2485.3
77.5°	2179.5	2114.3	1996.6	1799.2	1536.6	1285.0	1066.5	866.6	792.0	652.2	555.7
80°	1824.6	1746.7	1640.8	1494.2	1310.4	1127.5	954.7	806.4	657.3	535.4	427.8
82.5°	1673.8	1538.3	1389.2	1263.0	1133.4	1008.9	892.8	759.0	680.2	548.9	448.1
85°	846.2	741.2	600.6	505.7	426.9	347.3	300.7	256.7	228.7	182.1	158.4
87.5°	283.8	232.1	172.8	146.5	132.1	113.5	104.2	99.1	96.6	85.6	76.2
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°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1358.7	1358.7	1358.7	1358.7	1357.9	1357.9	1357.9	1357.9	1357.9	1357.9	1358.7
5°	1393.4	1393.4	1394.3	1396.8	1391.7	1393.4	1395.1	1392.6	1395.1	1392.6	1396.0
7.5°	1449.3	1451.9	1450.2	1453.6	1451.9	1457.0	1453.6	1451.0	1452.7	1452.7	1453.6
10°	1528.1	1531.5	1529.0	1530.7	1530.7	1534.1	1529.8	1530.7	1531.5	1529.8	1530.7
12.5°	1615.4	1617.1	1616.2	1621.3	1618.8	1621.3	1618.8	1622.1	1623.8	1625.5	1625.5
15°	1710.2	1711.9	1717.0	1716.2	1721.3	1719.6	1720.4	1716.2	1724.6	1719.6	1721.3
17.5°	1797.5	1796.6	1803.4	1806.0	1806.8	1807.7	1810.2	1806.8	1807.7	1810.2	1808.5
20°	1865.3	1871.2	1872.9	1879.7	1884.7	1886.4	1885.6	1888.1	1891.5	1888.1	1888.1
22.5°	1937.3	1945.7	1948.3	1952.5	1957.6	1958.4	1963.5	1966.1	1967.8	1966.9	1967.8
25°	2023.7	2029.6	2035.5	2044.0	2049.9	2050.8	2055.0	2058.4	2059.2	2058.4	2063.5
27.5°	2129.5	2137.2	2144.8	2155.0	2161.7	2163.4	2172.7	2172.7	2177.8	2180.4	2182.1
30°	2265.9	2268.5	2288.0	2298.1	2295.6	2307.4	2320.1	2319.3	2325.2	2326.9	2331.2
32.5°	2464.1	2464.1	2481.1	2493.8	2507.3	2503.1	2522.6	2519.2	2528.5	2533.6	2531.1
35°	2704.7	2713.2	2725.9	2733.5	2747.9	2755.5	2769.1	2776.7	2780.9	2780.1	2770.8
37.5°	2952.9	2966.5	2971.5	2990.2	3004.6	3017.3	3019.0	3010.5	3013.9	2997.0	2991.9
40°	3236.7	3256.2	3268.0	3296.0	3294.3	3310.4	3312.1	3287.5	3283.3	3261.2	3238.4
42.5°	3633.1	3660.2	3669.5	3690.7	3673.8	3681.4	3639.0	3628.9	3595.0	3559.4	3507.7
45°	4167.6	4154.1	4160.0	4154.1	4109.2	4076.1	4041.4	3991.4	3941.4	3872.8	3799.1
47.5°	4637.7	4644.5	4600.5	4572.5	4499.7	4453.1	4389.5	4302.3	4241.3	4149.0	4051.6
50°	5094.3	5018.9	4957.1	4892.7	4828.3	4742.8	4647.1	4570.0	4481.0	4365.8	4246.4
52.5°	5465.3	5367.9	5293.4	5201.9	5114.6	5019.8	4919.8	4808.0	4691.1	4575.9	4428.5
55°	6122.7	5981.2	5885.5	5725.4	5626.3	5493.3	5415.4	5270.5	5107.9	4955.4	4798.7
57.5°	7533.0	7321.3	7212.0	7121.4	6967.2	6748.7	6609.7	6371.7	6139.6	5977.0	5716.1
60°	9657.5	9442.4	9261.1	9046.8	8810.4	8514.0	8381.8	8101.4	7769.4	7500.9	7156.1
62.5°	10981.5	10684.2	10390.2	10089.5	9852.3	9620.2	9346.6	9063.7	8735.0	8370.0	7993.0
65°	11034.9	10678.2	10326.7	10020.1	9742.2	9440.7	9184.0	8896.8	8551.2	8175.1	7783.8
67.5°	10480.9	10081.9	9704.9	9368.7	9051.0	8771.5	8502.9	8232.7	7862.6	7547.4	7146.8
70°	9377.1	9012.9	8671.5	8288.6	8045.5	7731.3	7469.5	7184.9	6919.8	6625.0	6249.7
72.5°	6887.6	6613.1	6223.5	6060.8	5930.4	5597.5	5402.6	5378.9	5209.5	4856.3	4575.9
75°	2561.6	2180.4	2065.2	2133.8	2019.4	2057.5	2043.1	1961.8	1965.2	1905.1	1833.9
77.5°	501.5	465.9	437.9	445.6	414.2	400.7	429.5	421.0	405.7	410.0	403.2
80°	341.4	288.9	261.7	251.6	238.9	232.9	231.3	228.7	223.6	221.1	213.5
82.5°	336.3	249.9	197.4	169.4	159.3	154.2	149.9	149.1	147.4	146.5	149.1
85°	133.8	108.4	99.1	90.6	88.1	85.6	85.6	84.7	83.9	85.6	88.9
87.5°	65.2	55.1	50.0	45.7	44.0	43.2	43.2	44.0	44.9	48.3	55.1
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1357.0	1357.9	1356.2	1357.0	1356.2	1354.5	1353.6	1356.2	1355.3	1354.5	1354.5
5°	1391.7	1395.1	1393.4	1391.7	1391.7	1390.9	1390.9	1390.9	1390.1	1390.9	1388.4
7.5°	1451.9	1451.0	1451.0	1449.3	1447.7	1449.3	1448.5	1446.0	1446.8	1445.1	1442.6
10°	1529.0	1526.4	1530.7	1530.7	1527.3	1526.4	1524.7	1522.2	1522.2	1519.7	1519.7
12.5°	1620.5	1617.9	1623.8	1619.6	1614.5	1613.7	1608.6	1606.9	1609.4	1608.6	1606.9
15°	1713.6	1714.5	1717.0	1716.2	1710.2	1710.2	1703.5	1704.3	1699.2	1697.5	1693.3
17.5°	1804.3	1805.1	1802.6	1802.6	1798.3	1795.8	1788.2	1789.0	1785.6	1778.9	1773.8
20°	1885.6	1884.7	1878.8	1883.9	1875.4	1873.7	1867.0	1860.2	1861.9	1855.1	1844.9
22.5°	1965.2	1963.5	1961.8	1959.3	1955.1	1953.4	1945.7	1944.9	1936.4	1926.2	1917.8
25°	2057.5	2056.7	2054.2	2055.0	2046.5	2047.4	2033.8	2030.4	2025.4	2014.3	2007.6
27.5°	2177.0	2177.0	2170.2	2167.7	2165.1	2161.7	2149.9	2141.4	2128.7	2116.0	2102.4
30°	2323.5	2321.8	2320.1	2313.4	2304.0	2299.0	2277.8	2264.2	2247.3	2223.6	2203.2
32.5°	2532.8	2518.4	2506.5	2491.2	2476.0	2459.9	2426.9	2404.0	2376.9	2338.8	2306.6
35°	2765.7	2741.1	2728.4	2697.1	2668.3	2636.1	2596.3	2549.7	2512.4	2462.4	2409.9
37.5°	2958.0	2939.4	2905.5	2869.9	2829.2	2768.2	2723.3	2673.4	2608.1	2553.1	2489.6
40°	3195.2	3152.8	3104.5	3045.2	2989.3	2920.7	2858.9	2786.9	2707.3	2627.6	2544.6
42.5°	3444.2	3379.0	3299.4	3230.7	3146.0	3056.2	2975.8	2878.4	2776.7	2670.0	2559.0
45°	3698.3	3617.9	3512.0	3414.6	3296.8	3184.2	3069.0	2936.0	2797.0	2654.7	2515.0
47.5°	3931.3	3813.5	3693.2	3562.0	3426.4	3281.6	3118.1	2943.6	2760.6	2573.4	2398.9
50°	4114.2	3966.9	3815.2	3663.6	3497.6	3309.5	3103.7	2875.8	2650.5	2426.0	2225.3
52.5°	4276.0	4110.9	3924.5	3736.5	3531.5	3300.2	3042.7	2774.2	2499.7	2251.5	2026.2
55°	4589.5	4381.9	4136.3	3894.0	3634.8	3343.4	3022.4	2693.7	2377.7	2107.5	1867.8
57.5°	5440.8	5160.4	4780.0	4443.8	4115.1	3690.7	3238.4	2833.5	2431.1	2111.8	1844.9
60°	6781.7	6325.1	5889.7	5377.2	4845.3	4263.3	3656.8	3111.3	2620.9	2220.2	1899.1
62.5°	7559.3	7077.3	6517.4	5896.5	5207.0	4498.0	3801.7	3164.7	2626.8	2190.5	1834.8
65°	7349.2	6864.7	6248.9	5613.6	4880.0	4154.9	3463.7	2852.1	2330.3	1927.1	1586.6
67.5°	6725.8	6219.2	5640.7	4935.9	4234.5	3562.8	2932.6	2356.6	1894.9	1518.8	1218.1
70°	5818.6	5367.9	4810.5	4160.8	3480.6	2876.7	2345.6	1826.3	1435.8	1091.0	853.9
72.5°	4318.4	3919.4	3571.3	3028.3	2530.2	2056.7	1623.8	1270.6	934.3	706.5	543.8
75°	1812.7	1678.1	1621.3	1422.2	1236.7	1013.9	763.2	608.2	493.0	419.3	332.9
77.5°	439.6	439.6	413.4	387.1	355.8	321.9	284.6	254.1	238.9	225.3	214.3
80°	213.5	211.8	205.0	204.1	198.2	190.6	186.4	180.4	177.9	174.5	172.8
82.5°	149.9	149.1	146.5	149.9	149.1	152.5	154.2	155.0	155.0	155.9	156.7
85°	94.9	98.3	105.0	113.5	121.1	130.4	138.9	145.7	150.8	155.0	158.4
87.5°	60.1	68.6	73.7	86.4	99.1	113.5	129.6	136.4	142.3	143.2	138.1
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7	1347.7
2.5°	1354.5	1353.6	1355.3	1353.6	1353.6	1352.8	1350.2	1347.7	1345.2	1344.3	1341.8
5°	1387.5	1387.5	1389.2	1385.8	1386.7	1383.3	1375.7	1367.2	1359.6	1352.8	1345.2
7.5°	1443.4	1440.9	1441.7	1440.9	1439.2	1432.4	1415.5	1394.3	1374.0	1352.8	1335.8
10°	1518.0	1512.9	1512.9	1511.2	1508.6	1499.3	1463.7	1421.4	1379.0	1340.9	1313.0
12.5°	1601.0	1601.8	1595.0	1590.8	1586.6	1567.1	1513.7	1446.0	1379.0	1318.0	1273.2
15°	1687.4	1686.5	1678.9	1676.4	1667.0	1638.2	1557.8	1458.7	1362.9	1273.2	1206.2
17.5°	1765.3	1761.9	1754.3	1749.2	1739.0	1700.9	1587.4	1452.7	1320.6	1202.8	1119.0
20°	1836.5	1832.2	1825.4	1816.1	1806.0	1750.9	1598.4	1422.2	1253.7	1119.0	1034.3
22.5°	1910.2	1900.8	1893.2	1880.5	1869.5	1795.8	1590.8	1368.0	1177.4	1025.8	935.2
25°	1992.3	1981.3	1965.2	1950.0	1933.0	1832.2	1569.6	1300.3	1086.0	925.0	833.5
27.5°	2081.3	2065.2	2044.0	2024.5	1997.4	1859.3	1533.2	1224.9	986.0	825.1	730.2
30°	2175.3	2145.6	2119.4	2089.7	2055.0	1872.0	1480.7	1131.7	875.9	723.4	628.5
32.5°	2266.8	2227.0	2188.0	2144.8	2097.4	1867.0	1406.1	1021.6	765.8	628.5	548.9
35°	2360.0	2302.4	2248.1	2189.7	2132.1	1841.5	1303.6	899.6	661.6	549.8	492.2
37.5°	2423.5	2351.5	2279.5	2209.2	2139.7	1786.5	1167.3	763.2	567.5	493.0	451.5
40°	2455.7	2367.6	2279.5	2192.2	2106.7	1695.0	1008.0	638.7	500.6	450.6	421.0
42.5°	2446.4	2337.1	2227.8	2124.5	2019.4	1549.3	835.2	536.2	454.0	417.6	391.3
45°	2369.3	2238.8	2114.3	2005.0	1873.7	1362.1	686.1	472.7	418.5	390.5	365.9
47.5°	2224.4	2078.7	1926.2	1802.6	1679.8	1145.2	570.9	432.9	387.1	364.2	339.7
50°	2039.8	1871.2	1718.7	1584.9	1464.6	942.8	492.2	399.0	361.7	342.2	316.0
52.5°	1836.5	1655.2	1516.3	1375.7	1257.9	786.9	437.1	361.7	337.1	316.8	295.6
55°	1667.9	1500.2	1358.7	1217.2	1098.7	688.7	391.3	332.9	314.3	293.1	276.1
57.5°	1623.0	1431.6	1277.4	1143.6	1021.6	628.5	358.3	306.6	293.9	277.8	259.2
60°	1641.6	1430.7	1257.9	1111.4	983.5	580.2	333.7	288.9	278.7	264.3	244.8
62.5°	1574.7	1351.9	1177.4	1021.6	900.4	519.3	316.0	280.4	273.6	254.1	232.1
65°	1341.8	1137.6	969.9	835.2	731.0	437.1	301.6	288.0	281.2	247.3	223.6
67.5°	1021.6	851.3	716.6	615.8	540.4	361.7	298.2	313.4	299.9	250.7	221.1
70°	706.5	577.7	491.3	430.3	382.9	304.9	309.2	341.4	321.9	261.7	235.5
72.5°	448.1	374.4	332.1	309.2	286.3	257.5	306.6	338.0	311.7	263.4	235.5
75°	287.2	256.7	242.3	233.8	227.0	224.5	270.2	277.8	250.7	228.7	219.4
77.5°	203.3	198.2	195.7	194.8	195.7	201.6	223.6	209.2	182.1	183.0	188.1
80°	172.0	172.0	170.3	171.1	172.8	175.3	178.7	154.2	139.8	150.8	167.7
82.5°	157.6	160.1	161.8	163.5	166.0	162.6	151.6	116.9	112.7	146.5	164.3
85°	160.1	160.1	160.9	162.6	163.5	146.5	126.2	88.1	86.4	164.3	155.0
87.5°	137.2	135.5	129.6	125.4	119.4	100.8	83.9	49.1	50.8	101.6	108.4
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°	1347.7	1347.7
2.5°	1340.9	1340.9
5°	1340.9	1340.9
7.5°	1329.9	1326.5
10°	1297.7	1293.5
12.5°	1248.6	1244.4
15°	1173.2	1168.1
17.5°	1079.2	1070.7
20°	980.9	969.1
22.5°	882.7	873.3
25°	781.9	773.4
27.5°	682.7	674.3
30°	591.3	587.9
32.5°	523.5	520.1
35°	473.5	471.8
37.5°	439.6	437.9
40°	410.0	408.3
42.5°	382.9	380.3
45°	355.8	356.6
47.5°	328.7	327.8
50°	304.9	304.9
52.5°	285.5	284.6
55°	267.7	266.8
57.5°	249.9	249.0
60°	234.6	232.1
62.5°	220.2	218.5
65°	210.9	210.1
67.5°	204.1	201.6
70°	202.5	195.7
72.5°	197.4	188.9
75°	185.5	181.3
77.5°	163.5	158.4
80°	126.2	116.9
82.5°	105.9	91.5
85°	77.9	72.0
87.5°	56.8	44.9
90°	0.0	0.0

(END OF REPORT)