

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: STREETWORKS

Report Number: P257966

Luminaire Tested: **ARCH-L-AF72-100-D-U-T2U-7050**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P257966
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/21/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-100-D-U-T2U-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14036 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

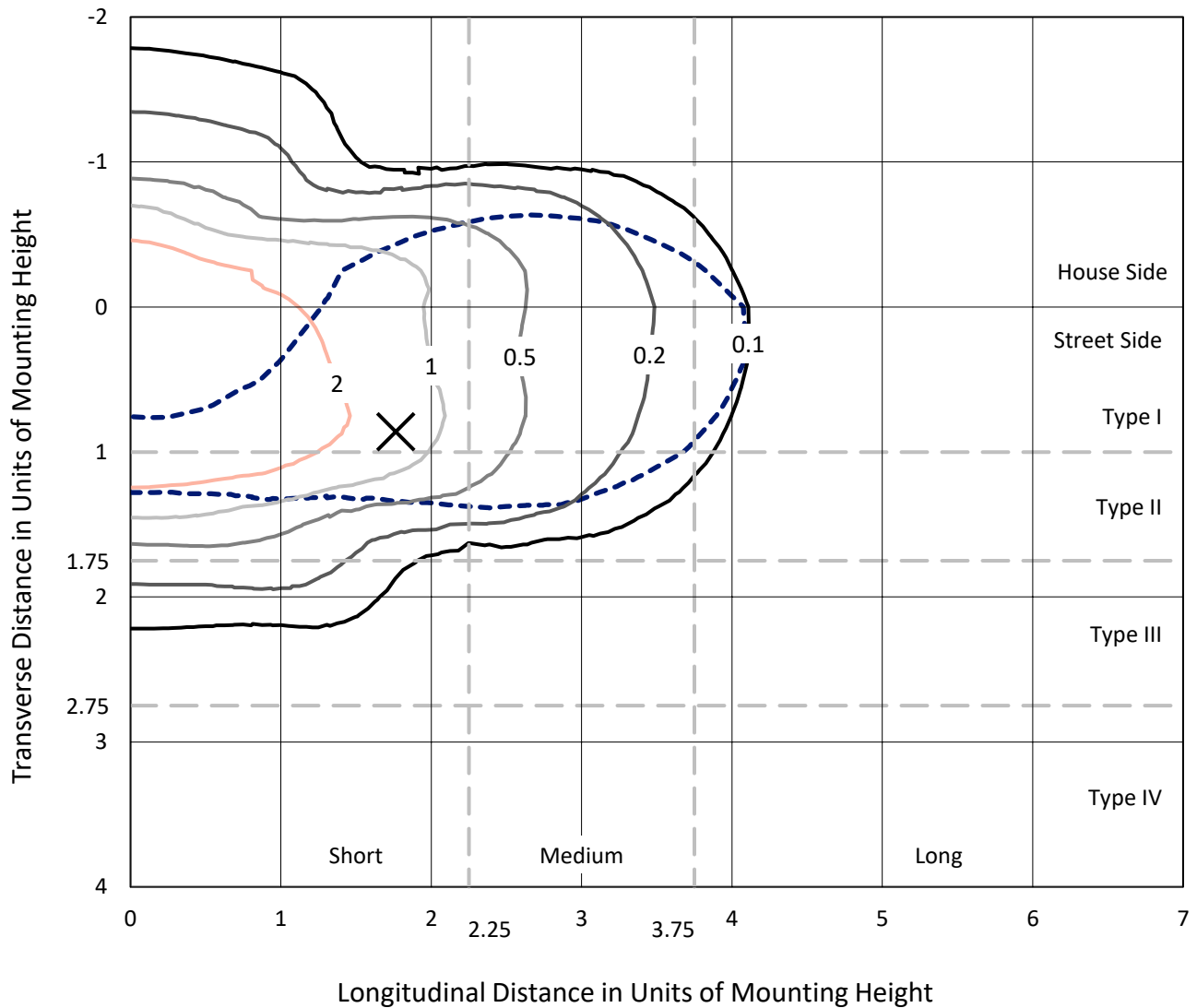
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

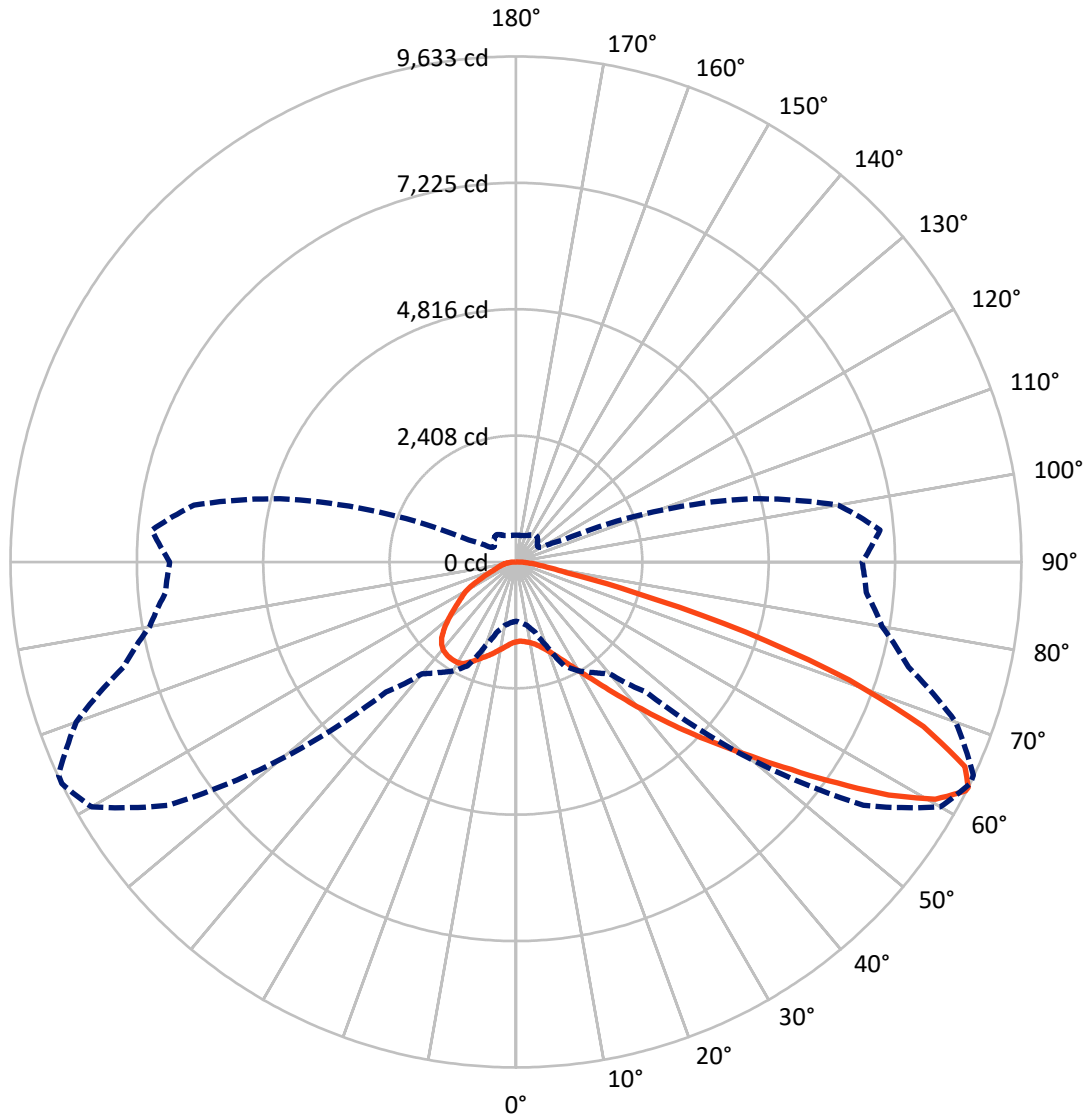
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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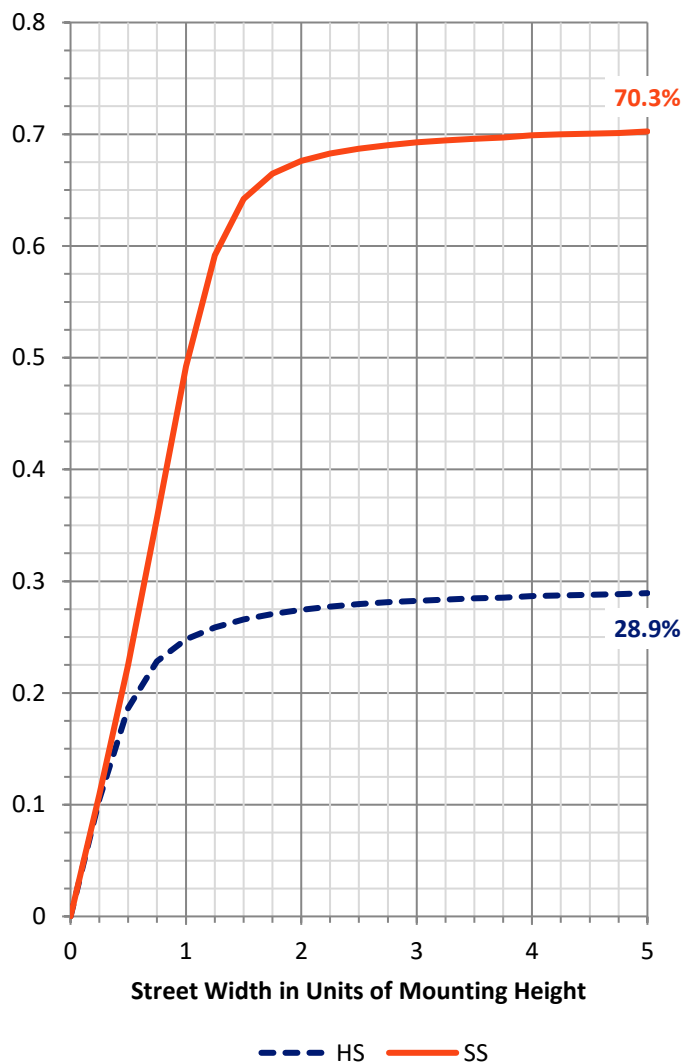
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4126.1	0.0	4126.1
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	9909.9	0.0	9909.9
	% Fixture	70.6	0.0	70.6
Total	Lumens	14036.0	0.0	14036.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	1.1
10°-20°	505.5	3.6
20°-30°	948.9	6.8
30°-40°	1590.5	11.3
40°-50°	2668.4	19.0
50°-60°	3382.8	24.1
60°-70°	2984.1	21.3
70°-80°	1540.5	11.0
80°-90°	263.6	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°	14036.0	100.0
0°-180°	14036.0	100.0

Coefficient of Utilization

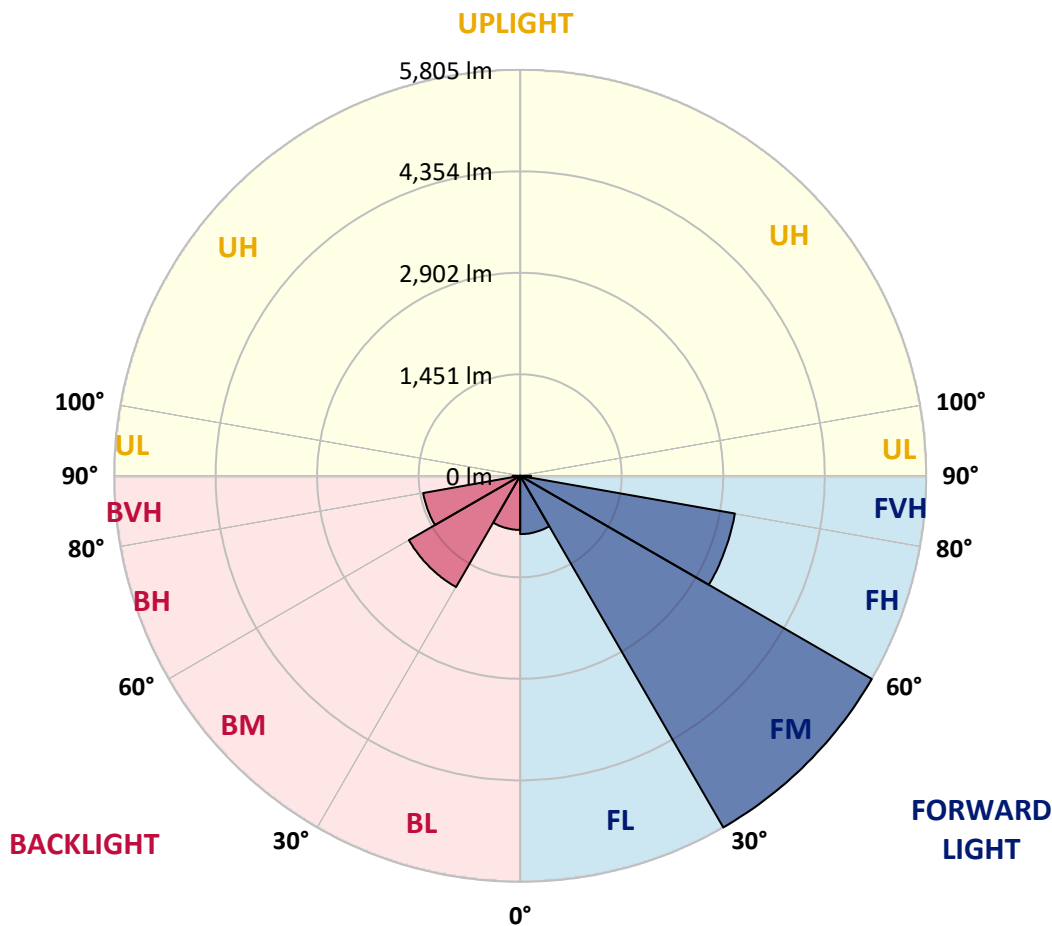


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	833.1	5.9			
FM (30°-60°)	5804.9	41.4			
FH (60°-80°)	3116.8	22.2			G2/5000
FVH (80°-90°)	155.1	1.1			G2/225
BL (0°-30°)	773.1	5.5	B2/1000		
BM (30°-60°)	1836.7	13.1	B2/2500		
BH (60°-80°)	1407.8	10.0	B3/2500		G3/2500
BVH (80°-90°)	108.5	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1510.7	1508.3	1508.3	1508.3	1508.3	1506.0	1508.3	1513.0	1510.7	1508.3	1513.0
5°	1515.4	1513.0	1513.0	1513.0	1515.4	1513.0	1515.4	1522.4	1517.7	1517.7	1522.4
7.5°	1527.1	1524.8	1527.1	1524.8	1524.8	1524.8	1527.1	1534.2	1531.8	1534.2	1541.2
10°	1541.2	1541.2	1541.2	1541.2	1541.2	1541.2	1545.9	1550.6	1553.0	1555.3	1564.7
12.5°	1583.5	1583.5	1583.5	1581.2	1581.2	1574.1	1583.5	1588.2	1592.9	1597.6	1604.7
15°	1672.8	1672.8	1670.5	1661.1	1661.1	1647.0	1649.3	1651.7	1651.7	1656.4	1661.1
17.5°	1790.3	1787.9	1783.2	1776.2	1766.8	1750.3	1745.6	1740.9	1733.9	1731.5	1731.5
20°	1954.7	1952.4	1943.0	1924.2	1912.5	1886.6	1867.8	1849.0	1842.0	1830.2	1827.9
22.5°	2189.7	2189.7	2170.9	2142.7	2133.3	2079.3	2025.2	1985.3	1971.2	1954.7	1954.7
25°	2474.0	2471.6	2445.8	2412.9	2372.9	2316.6	2250.8	2196.7	2161.5	2123.9	2109.8
27.5°	2814.6	2807.6	2772.3	2732.4	2657.2	2586.7	2509.2	2452.8	2391.7	2344.7	2302.5
30°	3214.0	3207.0	3145.9	3070.7	2993.2	2922.7	2809.9	2741.8	2645.5	2589.1	2542.1
32.5°	3676.9	3669.8	3559.4	3486.6	3404.4	3317.4	3183.5	3075.4	2953.3	2873.4	2807.6
35°	4266.6	4238.4	4081.0	3980.0	3850.7	3763.8	3622.8	3477.2	3333.9	3221.1	3124.8
37.5°	4903.3	4870.4	4731.8	4581.4	4454.6	4348.8	4149.1	3965.9	3796.7	3641.6	3521.8
40°	5568.2	5481.3	5333.2	5222.8	5135.9	5034.9	4825.8	4633.1	4367.6	4193.8	4012.9
42.5°	6028.7	5944.1	5840.7	5767.9	5725.6	5648.1	5530.6	5363.8	5126.5	5131.2	4654.3
45°	6331.8	6207.2	6136.8	6141.5	6157.9	6157.9	6136.8	6110.9	6007.5	6078.0	5678.6
47.5°	6223.7	6141.5	6096.8	6190.8	6308.3	6425.7	6562.0	6710.0	6879.2	7078.9	6587.9
50°	5589.3	5619.9	5641.0	5840.7	6092.1	6360.0	6672.4	7076.5	7548.8	7640.4	7403.1
52.5°	4576.7	4642.5	4713.0	5018.4	5349.7	5812.5	6360.0	7027.2	7661.6	8035.1	8011.6
55°	3554.7	3636.9	3787.3	4015.2	4278.3	4715.3	5392.0	6421.0	7410.2	8004.6	8366.4
57.5°	2530.4	2650.2	2847.5	3164.7	3397.3	3644.0	4144.4	5286.3	6369.4	7475.9	8307.6
60°	1682.2	1738.6	1867.8	2262.5	2654.9	2913.3	3268.1	3681.6	4567.3	6092.1	7701.5
62.5°	1193.5	1231.1	1311.0	1489.6	1844.3	2311.9	2525.7	2716.0	3000.2	3918.9	6183.7
63°	1127.7	1160.6	1226.4	1376.8	1696.3	2180.3	2398.8	2572.6	2779.4	3505.4	5850.1
65°	935.1	949.2	984.4	1057.3	1228.8	1630.5	1987.6	2093.4	2128.6	2253.1	3665.1
67.5°	789.4	798.8	810.6	831.7	899.8	1085.4	1482.5	1616.4	1576.5	1491.9	1811.4
70°	686.0	693.1	711.9	737.7	761.2	808.2	1019.7	1219.4	1174.7	1059.6	1108.9
72.5°	547.4	559.2	580.3	625.0	671.9	733.0	784.7	909.2	881.0	770.6	782.4
75°	432.3	439.3	458.1	491.0	535.7	606.2	707.2	749.5	671.9	568.6	568.6
77.5°	343.0	350.1	366.5	392.4	420.6	469.9	540.4	650.8	603.8	427.6	425.3
80°	258.4	265.5	281.9	305.4	333.6	368.9	411.2	460.5	554.5	399.4	319.5
82.5°	190.3	192.7	220.8	237.3	246.7	274.9	310.1	338.3	380.6	368.9	284.3
85°	143.3	141.0	159.8	171.5	173.9	180.9	202.1	230.2	249.0	239.6	220.8
87.5°	79.9	70.5	82.2	94.0	94.0	96.3	101.0	117.5	133.9	129.2	117.5
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1513.0	1513.0	1510.7	1510.7	1513.0	1513.0	1510.7	1517.7	1522.4	1522.4	1524.8
5°	1520.1	1522.4	1520.1	1520.1	1522.4	1522.4	1524.8	1531.8	1538.9	1543.6	1550.6
7.5°	1541.2	1543.6	1541.2	1541.2	1543.6	1545.9	1550.6	1560.0	1564.7	1574.1	1585.9
10°	1564.7	1567.1	1564.7	1567.1	1569.4	1571.8	1578.8	1585.9	1592.9	1602.3	1621.1
12.5°	1607.0	1609.4	1604.7	1607.0	1614.1	1614.1	1618.8	1623.5	1635.2	1647.0	1665.8
15°	1665.8	1665.8	1661.1	1663.4	1670.5	1670.5	1672.8	1677.5	1691.6	1705.7	1724.5
17.5°	1733.9	1738.6	1736.2	1738.6	1743.3	1745.6	1745.6	1750.3	1759.7	1769.1	1787.9
20°	1825.5	1827.9	1823.2	1827.9	1832.6	1827.9	1823.2	1820.8	1825.5	1830.2	1851.4
22.5°	1950.0	1947.7	1935.9	1935.9	1935.9	1926.5	1914.8	1900.7	1900.7	1893.7	1910.1
25°	2098.1	2091.0	2074.6	2076.9	2060.5	2046.4	2025.2	2004.1	1985.3	1978.2	1980.6
27.5°	2271.9	2257.8	2241.4	2236.7	2220.2	2194.4	2159.1	2119.2	2088.7	2065.2	2060.5
30°	2490.4	2459.9	2431.7	2427.0	2401.1	2358.8	2302.5	2248.4	2196.7	2156.8	2142.7
32.5°	2748.9	2701.9	2657.2	2652.5	2610.2	2553.9	2485.7	2410.5	2335.4	2271.9	2241.4
35°	3051.9	2981.4	2939.2	2927.4	2866.3	2795.8	2720.7	2624.3	2518.6	2429.3	2372.9
37.5°	3420.8	3348.0	3275.1	3277.5	3192.9	3110.7	3009.6	2892.2	2758.3	2633.7	2553.9
40°	3876.6	3773.2	3679.2	3658.1	3585.3	3470.1	3359.7	3223.4	3059.0	2894.5	2779.4
42.5°	4428.7	4259.5	4130.3	4111.5	4015.2	3874.2	3740.3	3559.4	3392.6	3192.9	3054.3
45°	5056.0	4785.8	4630.8	4602.6	4447.5	4304.2	4142.1	3949.4	3745.0	3519.5	3355.0
47.5°	5836.0	5450.7	5187.6	5140.6	4926.8	4738.8	4569.7	4355.9	4111.5	3860.1	3679.2
50°	6745.3	6176.7	5821.9	5749.1	5462.5	5241.6	5025.5	4757.6	4496.8	4233.7	4024.6
52.5°	7656.9	7046.0	6573.8	6484.5	6061.6	5765.5	5481.3	5213.4	4905.6	4644.9	4407.6
55°	8389.9	7983.4	7436.0	7311.5	6705.3	6303.6	5930.0	5624.6	5319.2	5112.4	4832.8
57.5°	8831.6	8810.4	8378.1	8206.6	7377.3	6782.9	6367.0	6019.3	5723.3	5636.3	5265.1
60°	8819.8	9367.2	9181.6	9052.4	8056.3	7273.9	6733.5	6357.6	6113.3	6211.9	5699.8
62.5°	8281.8	9390.7	9613.9	9578.7	8779.9	7668.6	7034.2	6646.6	6517.4	6811.1	6150.9
63°	8086.8	9336.7	9632.7	9618.6	8918.5	7743.8	7085.9	6703.0	6597.3	6963.8	6233.1
65°	6834.5	8864.5	9404.8	9468.3	9216.9	8002.2	7205.8	6846.3	6834.5	7304.4	6428.1
67.5°	4165.6	7490.0	8378.1	8500.3	8796.3	8084.5	7137.6	6797.0	6966.1	7353.8	6369.4
70°	1780.9	4943.2	6733.5	6930.9	7654.5	7675.6	6942.6	6594.9	6935.6	6968.5	5951.2
72.5°	1054.9	2330.7	4583.8	5013.7	6056.9	6604.3	6496.2	6242.5	6533.8	6120.3	5067.8
75°	747.1	1090.1	2328.3	2786.4	4217.3	5041.9	5457.8	5575.2	5563.5	4854.0	3803.8
77.5°	535.7	700.1	982.1	1158.3	2354.1	3237.5	3745.0	4088.0	3977.6	3249.3	2344.7
80°	373.6	484.0	601.5	639.0	1092.5	1663.4	1973.5	2123.9	2058.1	1623.5	1050.2
82.5°	270.2	317.2	387.7	411.2	549.8	768.3	913.9	805.9	773.0	599.1	453.4
85°	209.1	204.4	242.0	251.4	321.9	401.8	411.2	319.5	279.6	249.0	253.7
87.5°	148.0	126.9	129.2	133.9	166.8	213.8	209.1	131.6	112.8	119.8	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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1529.5	1531.8	1536.5	1538.9	1543.6	1543.6	1548.3	1550.6	1555.3	1560.0	1562.4
5°	1557.7	1564.7	1574.1	1578.8	1588.2	1595.3	1604.7	1609.4	1618.8	1625.8	1635.2
7.5°	1600.0	1611.7	1623.5	1637.6	1651.7	1663.4	1672.8	1684.6	1701.0	1712.7	1719.8
10°	1639.9	1656.4	1677.5	1694.0	1715.1	1731.5	1745.6	1766.8	1785.6	1802.0	1811.4
12.5°	1691.6	1712.7	1733.9	1759.7	1787.9	1809.1	1830.2	1858.4	1884.3	1903.1	1912.5
15°	1752.7	1778.5	1802.0	1832.6	1865.5	1893.7	1924.2	1954.7	1973.5	1973.5	1968.8
17.5°	1816.1	1837.3	1865.5	1900.7	1945.3	1980.6	1997.0	2001.7	1994.7	1978.2	1966.5
20°	1879.6	1898.4	1928.9	1971.2	2018.2	2025.2	2008.8	1987.6	1966.5	1938.3	1919.5
22.5°	1931.2	1957.1	2004.1	2053.4	2055.8	2015.8	1971.2	1935.9	1903.1	1870.2	1834.9
25°	1992.3	2027.6	2091.0	2109.8	2048.7	1973.5	1910.1	1858.4	1804.4	1750.3	1710.4
27.5°	2067.5	2119.2	2182.6	2128.6	2008.8	1903.1	1816.1	1738.6	1668.1	1592.9	1548.3
30°	2147.4	2227.3	2241.4	2100.4	1940.6	1804.4	1686.9	1569.4	1480.2	1412.0	1386.2
32.5°	2243.7	2347.1	2262.5	2051.1	1849.0	1670.5	1513.0	1372.1	1296.9	1254.6	1242.9
35°	2389.4	2474.0	2274.3	1999.4	1743.3	1510.7	1313.3	1200.6	1153.6	1125.4	1111.3
37.5°	2598.5	2596.1	2271.9	1935.9	1621.1	1336.8	1153.6	1073.7	1036.1	1012.6	986.8
40°	2842.8	2690.1	2257.8	1844.3	1456.7	1170.0	1043.2	968.0	932.7	904.5	874.0
42.5°	3084.8	2753.6	2217.9	1708.0	1252.3	1050.2	963.3	895.1	857.5	827.0	784.7
45°	3293.9	2779.4	2140.3	1520.1	1069.0	956.2	911.6	852.8	808.2	761.2	728.3
47.5°	3458.4	2774.7	2015.8	1299.2	946.8	890.4	869.3	829.4	775.3	716.6	674.3
50°	3597.0	2739.5	1846.7	1104.2	864.6	831.7	824.7	812.9	726.0	676.6	650.8
52.5°	3723.9	2687.8	1665.8	972.7	794.1	765.9	780.0	768.3	707.2	664.9	639.0
55°	3897.7	2652.5	1487.2	871.6	711.9	704.8	716.6	733.0	695.4	655.5	627.3
57.5°	4102.1	2671.3	1350.9	758.9	634.4	639.0	679.0	702.5	683.7	641.4	613.2
60°	4337.1	2727.7	1231.1	650.8	570.9	582.7	641.4	674.3	671.9	622.6	589.7
62.5°	4600.2	2786.4	1040.8	568.6	516.9	535.7	596.8	639.0	646.1	603.8	563.9
63°	4651.9	2791.1	991.5	552.1	507.5	528.6	585.0	629.7	639.0	599.1	559.2
65°	4778.8	2748.9	798.8	507.5	469.9	493.4	549.8	589.7	608.5	573.3	540.4
67.5°	4673.1	2403.5	601.5	453.4	439.3	455.8	505.1	542.7	559.2	542.7	509.8
70°	4273.6	1748.0	469.9	404.1	406.5	418.2	455.8	491.0	509.8	505.1	474.6
72.5°	3441.9	991.5	392.4	361.8	368.9	383.0	408.8	441.7	458.1	455.8	434.6
75°	2267.2	507.5	331.3	324.2	328.9	340.7	359.5	385.3	404.1	401.8	392.4
77.5°	1123.0	352.4	284.3	286.6	289.0	298.4	312.5	336.0	347.7	350.1	347.7
80°	462.8	274.9	244.3	246.7	249.0	256.1	265.5	286.6	293.7	298.4	300.7
82.5°	277.2	209.1	195.0	199.7	202.1	209.1	216.1	234.9	242.0	249.0	249.0
85°	183.3	145.7	141.0	145.7	150.4	155.1	157.4	169.2	180.9	190.3	195.0
87.5°	98.7	86.9	84.6	86.9	86.9	91.6	96.3	108.1	122.2	131.6	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):

	160°	165°	170°	175°	180°
0°	1520.1	1520.1	1520.1	1520.1	1520.1
2.5°	1557.7	1560.0	1557.7	1560.0	1562.4
5°	1635.2	1639.9	1637.6	1637.6	1647.0
7.5°	1724.5	1733.9	1733.9	1738.6	1743.3
10°	1820.8	1830.2	1837.3	1837.3	1844.3
12.5°	1917.1	1921.8	1928.9	1928.9	1928.9
15°	1966.5	1964.1	1961.8	1959.4	1959.4
17.5°	1959.4	1950.0	1945.3	1940.6	1943.0
20°	1907.8	1891.3	1886.6	1879.6	1884.3
22.5°	1818.5	1795.0	1785.6	1773.8	1778.5
25°	1684.6	1656.4	1651.7	1637.6	1644.6
27.5°	1529.5	1515.4	1513.0	1510.7	1522.4
30°	1383.8	1388.5	1390.9	1395.6	1407.3
32.5°	1249.9	1259.3	1261.7	1264.0	1280.4
35°	1118.3	1106.6	1118.3	1113.6	1127.7
37.5°	975.0	965.6	956.2	944.5	953.9
40°	855.2	838.8	810.6	796.5	798.8
42.5°	761.2	740.1	716.6	702.5	702.5
45°	700.1	674.3	653.1	643.7	643.7
47.5°	653.1	641.4	629.7	622.6	622.6
50°	634.4	620.3	613.2	608.5	608.5
52.5°	620.3	606.2	599.1	594.4	589.7
55°	608.5	587.4	580.3	578.0	578.0
57.5°	592.1	573.3	563.9	561.5	561.5
60°	566.2	552.1	542.7	540.4	540.4
62.5°	540.4	526.3	516.9	516.9	516.9
63°	535.7	519.2	512.2	512.2	512.2
65°	514.5	498.1	491.0	491.0	488.7
67.5°	486.3	469.9	465.2	465.2	460.5
70°	453.4	439.3	434.6	437.0	427.6
72.5°	420.6	406.5	399.4	399.4	390.0
75°	383.0	368.9	359.5	357.1	347.7
77.5°	340.7	328.9	319.5	310.1	305.4
80°	296.0	286.6	274.9	267.8	260.8
82.5°	249.0	239.6	232.6	242.0	206.8
85°	195.0	185.6	176.2	190.3	148.0
87.5°	143.3	138.6	129.2	112.8	98.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)