

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: P257928

Luminaire Tested: **ARCH-L-AF72-120-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-120-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 530mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15993.4 lumens
Efficiency: N/A
Efficacy: 130.0 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

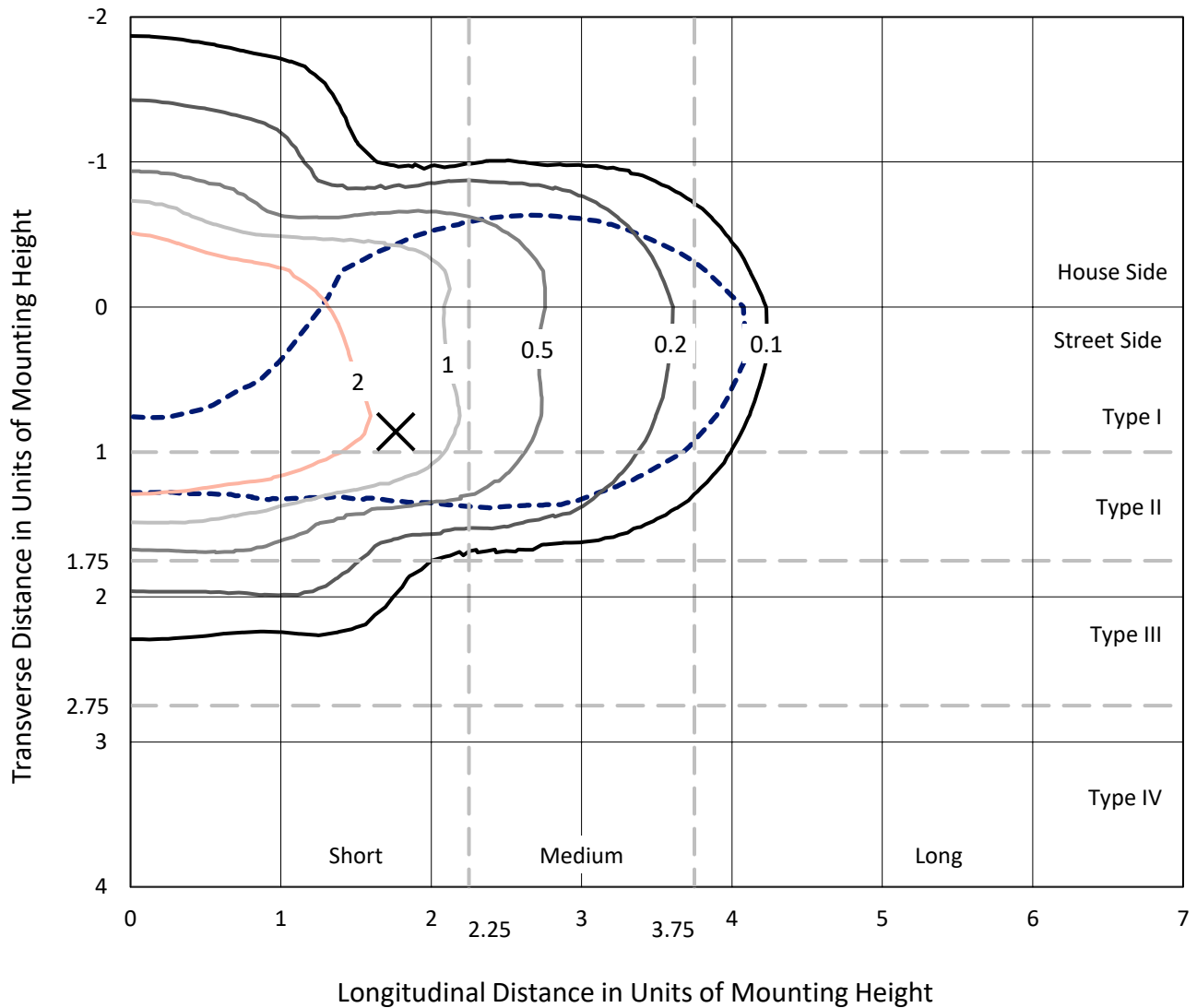
Input Watts (W): 123
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

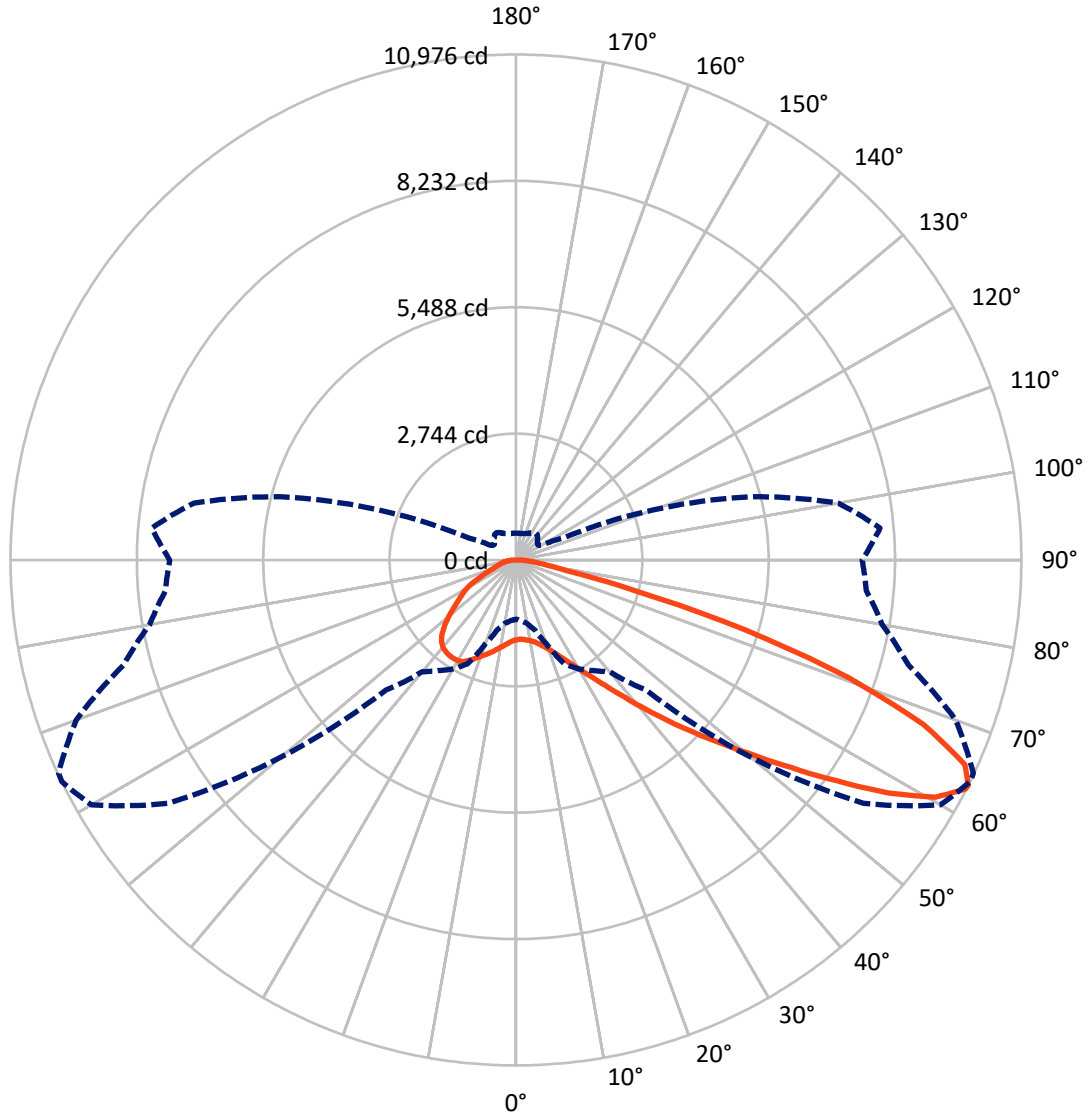
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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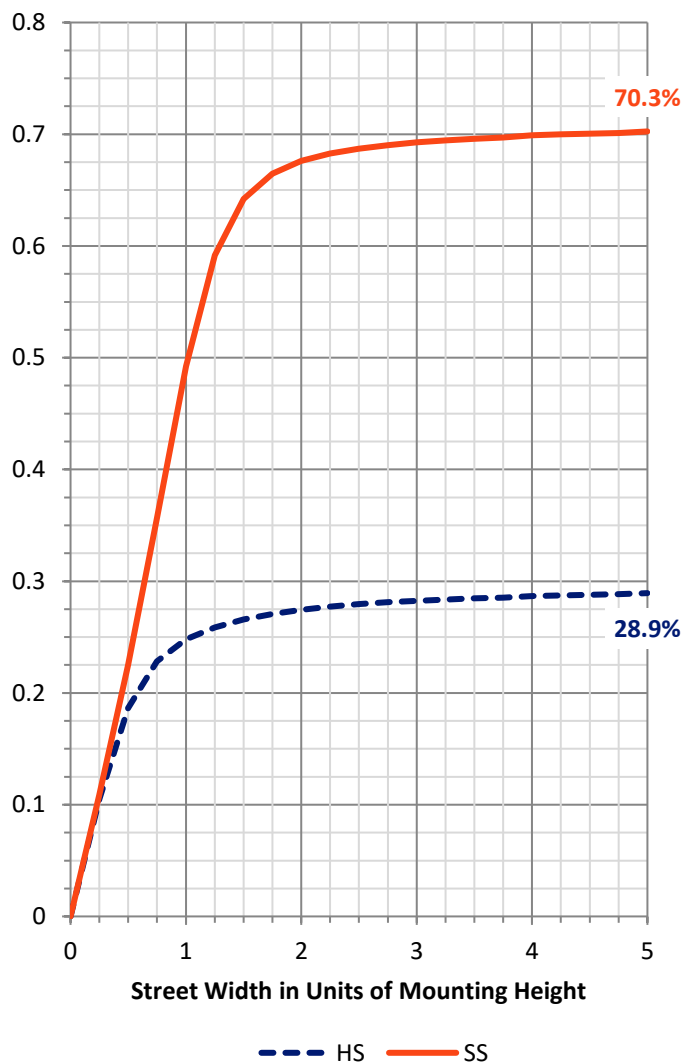
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4701.5	0.0	4701.5
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	11291.9	0.0	11291.9
	% Fixture	70.6	0.0	70.6
Total	Lumens	15993.4	0.0	15993.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	1.1
10°-20°	576.0	3.6
20°-30°	1081.2	6.8
30°-40°	1812.3	11.3
40°-50°	3040.6	19.0
50°-60°	3854.5	24.1
60°-70°	3400.3	21.3
70°-80°	1755.3	11.0
80°-90°	300.4	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°	15993.4	100.0
0°-180°	15993.4	100.0

Coefficient of Utilization

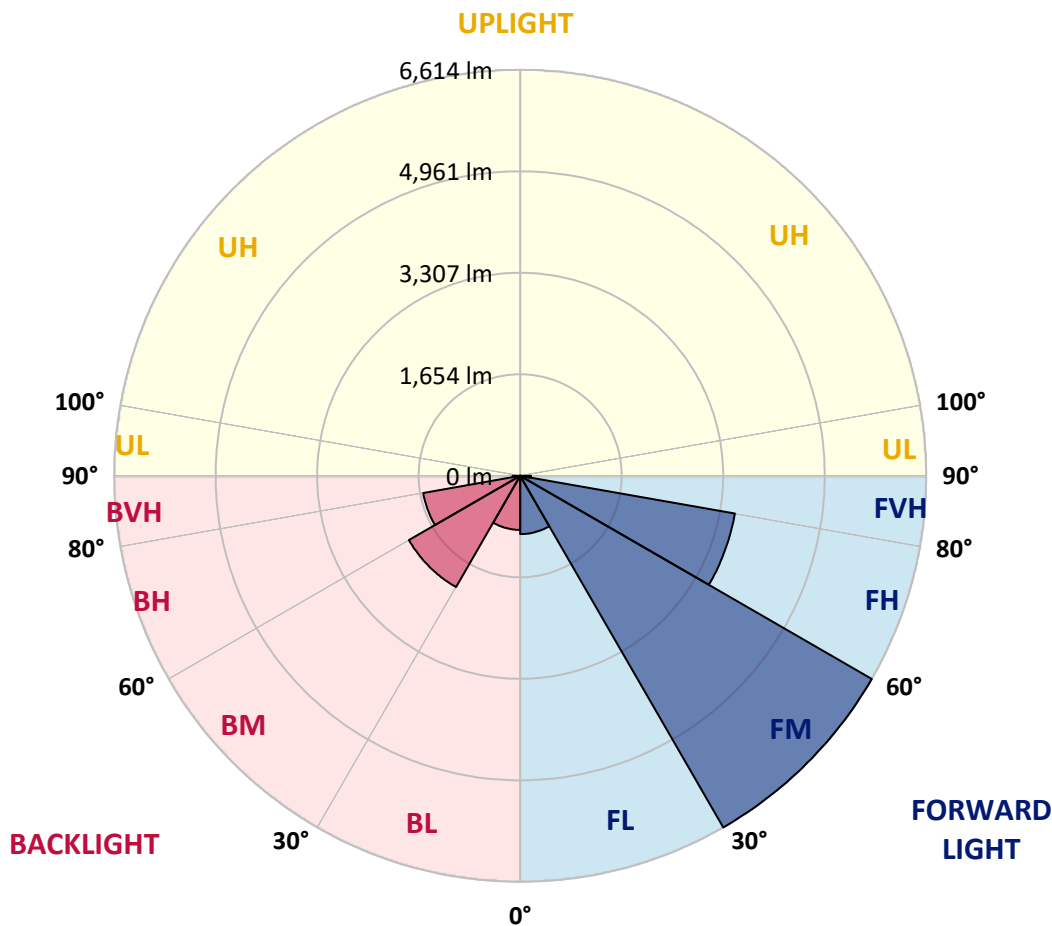


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	949.3	5.9			
FM (30°-60°)	6614.4	41.4			
FH (60°-80°)	3551.4	22.2			G2/5000
FVH (80°-90°)	176.8	1.1			G2/225
BL (0°-30°)	880.9	5.5	B2/1000		
BM (30°-60°)	2092.9	13.1	B2/2500		
BH (60°-80°)	1604.1	10.0	B3/2500		G3/2500
BVH (80°-90°)	123.6	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°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1721.4	1718.6	1718.6	1718.6	1718.6	1716.0	1718.6	1724.0	1721.4	1718.6	1724.0
5°	1726.8	1724.0	1724.0	1724.0	1726.8	1724.0	1726.8	1734.7	1729.3	1729.3	1734.7
7.5°	1740.1	1737.4	1740.1	1737.4	1737.4	1737.4	1740.1	1748.1	1745.4	1748.1	1756.2
10°	1756.2	1756.2	1756.2	1756.2	1756.2	1756.2	1761.5	1766.8	1769.6	1772.1	1782.9
12.5°	1804.3	1804.3	1804.3	1801.6	1801.6	1793.6	1804.3	1809.7	1815.1	1820.4	1828.5
15°	1906.1	1906.1	1903.4	1892.7	1892.7	1876.6	1879.4	1882.0	1882.0	1887.4	1892.7
17.5°	2040.0	2037.2	2031.9	2023.9	2013.2	1994.4	1989.1	1983.7	1975.7	1973.0	1973.0
20°	2227.4	2224.6	2213.9	2192.5	2179.1	2149.6	2128.3	2106.8	2098.9	2085.4	2082.8
22.5°	2495.1	2495.1	2473.6	2441.5	2430.8	2369.2	2307.7	2262.1	2246.1	2227.4	2227.4
25°	2819.0	2816.2	2786.8	2749.4	2703.8	2639.6	2564.7	2503.1	2462.9	2420.1	2404.0
27.5°	3207.2	3199.1	3159.0	3113.5	3027.8	2947.5	2859.1	2794.9	2725.3	2671.7	2623.6
30°	3662.3	3654.1	3584.6	3498.9	3410.6	3330.3	3201.9	3124.2	3014.4	2950.1	2896.6
32.5°	4189.6	4181.6	4055.8	3972.7	3879.1	3780.1	3627.4	3504.3	3365.0	3274.1	3199.1
35°	4861.6	4829.5	4650.1	4535.1	4387.8	4288.7	4128.1	3962.1	3798.8	3670.2	3560.5
37.5°	5587.1	5549.6	5391.6	5220.3	5075.7	4955.2	4727.7	4519.0	4326.1	4149.4	4013.0
40°	6344.6	6245.7	6077.0	5951.2	5852.2	5736.9	5498.7	5279.2	4976.8	4778.6	4572.5
42.5°	6869.4	6773.0	6655.2	6572.3	6524.1	6435.7	6301.8	6111.8	5841.4	5846.8	5303.3
45°	7214.7	7072.9	6992.6	6997.9	7016.6	7016.6	6992.6	6963.1	6845.3	6925.6	6470.6
47.5°	7091.6	6997.9	6947.0	7054.1	7187.9	7321.8	7477.1	7645.8	7838.5	8066.1	7506.5
50°	6368.8	6403.5	6427.7	6655.2	6941.7	7246.8	7603.0	8063.4	8601.4	8705.9	8435.5
52.5°	5215.0	5289.9	5370.2	5718.3	6095.7	6623.1	7246.8	8007.2	8730.1	9155.6	9128.8
55°	4050.5	4144.1	4315.4	4575.1	4874.9	5373.0	6143.8	7316.4	8443.5	9120.9	9533.1
57.5°	2883.3	3019.7	3244.7	3606.0	3871.0	4152.2	4722.4	6023.5	7257.5	8518.5	9466.2
60°	1916.9	1981.1	2128.3	2578.1	3025.1	3319.7	3723.8	4195.0	5204.2	6941.7	8775.4
62.5°	1360.0	1402.8	1493.8	1697.3	2101.5	2634.2	2877.9	3094.7	3418.6	4465.4	7046.1
63°	1285.0	1322.5	1397.4	1568.8	1932.9	2484.3	2733.3	2931.4	3167.0	3994.2	6665.9
65°	1065.5	1081.5	1121.6	1204.7	1400.1	1857.9	2264.8	2385.2	2425.4	2567.4	4176.2
67.5°	899.5	910.2	923.6	947.8	1025.3	1236.9	1689.2	1841.8	1796.3	1700.0	2064.0
70°	781.7	789.7	811.1	840.6	867.4	920.9	1161.9	1389.4	1338.5	1207.4	1263.6
72.5°	623.8	637.2	661.2	712.2	765.7	835.3	894.2	1036.0	1003.9	878.1	891.4
75°	492.5	500.6	522.0	559.5	610.3	690.7	805.8	854.0	765.7	647.9	647.9
77.5°	390.8	398.9	417.6	447.1	479.2	535.4	615.6	741.6	688.0	487.2	484.6
80°	294.5	302.5	321.2	348.0	380.1	420.3	468.5	524.7	631.8	455.1	364.1
82.5°	216.9	219.5	251.7	270.4	281.2	313.2	353.4	385.4	433.6	420.3	324.0
85°	163.4	160.6	182.0	195.5	198.1	206.2	230.2	262.3	283.7	273.0	251.7
87.5°	91.0	80.3	93.8	107.1	107.1	109.8	115.2	133.9	152.6	147.3	133.9
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1724.0	1724.0	1721.4	1721.4	1724.0	1724.0	1721.4	1729.3	1734.7	1734.7	1737.4
5°	1732.1	1734.7	1732.1	1732.1	1734.7	1734.7	1737.4	1745.4	1753.5	1758.8	1766.8
7.5°	1756.2	1758.8	1756.2	1756.2	1758.8	1761.5	1766.8	1777.5	1782.9	1793.6	1807.0
10°	1782.9	1785.7	1782.9	1785.7	1788.2	1791.0	1799.0	1807.0	1815.1	1825.7	1847.1
12.5°	1831.0	1833.8	1828.5	1831.0	1839.2	1839.2	1844.6	1849.9	1863.2	1876.6	1898.1
15°	1898.1	1898.1	1892.7	1895.4	1903.4	1903.4	1906.1	1911.5	1927.6	1943.6	1965.0
17.5°	1975.7	1981.1	1978.3	1981.1	1986.5	1989.1	1989.1	1994.4	2005.1	2015.9	2037.2
20°	2080.1	2082.8	2077.4	2082.8	2088.2	2082.8	2077.4	2074.8	2080.1	2085.4	2109.6
22.5°	2222.0	2219.3	2206.0	2206.0	2206.0	2195.2	2181.8	2165.7	2165.7	2157.8	2176.5
25°	2390.6	2382.6	2363.9	2366.5	2347.8	2331.7	2307.7	2283.5	2262.1	2254.1	2256.8
27.5°	2588.8	2572.7	2553.9	2548.6	2529.9	2500.4	2460.2	2414.7	2379.8	2353.1	2347.8
30°	2837.7	2802.9	2770.9	2765.5	2736.0	2687.8	2623.6	2562.0	2503.1	2457.6	2441.5
32.5°	3132.3	3078.6	3027.8	3022.4	2974.2	2910.0	2832.3	2746.7	2661.0	2588.8	2553.9
35°	3477.5	3397.2	3349.1	3335.6	3266.1	3185.8	3100.0	2990.3	2869.8	2768.1	2703.8
37.5°	3897.9	3814.9	3731.9	3734.6	3638.2	3544.5	3429.3	3295.5	3143.0	3001.1	2910.0
40°	4417.3	4299.4	4192.3	4168.2	4085.2	3954.1	3828.2	3673.0	3485.6	3298.2	3167.0
42.5°	5046.3	4853.6	4706.4	4684.9	4575.1	4414.5	4261.8	4055.8	3865.7	3638.2	3480.2
45°	5761.1	5453.2	5276.5	5244.5	5067.8	4904.4	4719.7	4500.2	4267.2	4010.3	3822.9
47.5°	6649.8	6210.9	5911.0	5857.5	5613.8	5399.7	5207.0	4963.3	4684.9	4398.4	4192.3
50°	7686.0	7038.1	6633.7	6550.8	6224.3	5972.5	5726.3	5421.1	5123.9	4824.2	4585.8
52.5°	8724.7	8028.6	7490.5	7388.7	6907.0	6569.5	6245.7	5940.4	5589.7	5292.6	5022.2
55°	9559.8	9096.7	8472.9	8331.1	7640.4	7182.6	6756.9	6408.9	6060.9	5825.3	5506.7
57.5°	10063.3	10039.1	9546.5	9351.1	8406.1	7728.8	7255.0	6858.7	6521.3	6422.4	5999.3
60°	10049.7	10673.5	10462.0	10314.8	9179.8	8288.3	7672.5	7244.2	6965.9	7078.3	6494.6
62.5°	9436.7	10700.3	10954.7	10914.5	10004.4	8738.0	8015.2	7573.6	7426.3	7760.9	7008.7
63°	9214.5	10638.8	10976.0	10960.1	10162.2	8823.7	8074.0	7637.8	7517.2	7934.9	7102.3
65°	7787.7	10100.7	10716.3	10788.7	10502.2	9118.1	8210.7	7801.0	7787.7	8323.1	7324.5
67.5°	4746.4	8534.6	9546.5	9685.8	10023.0	9211.8	8133.0	7744.9	7937.5	8379.3	7257.5
70°	2029.3	5632.7	7672.5	7897.4	8721.9	8746.1	7910.8	7514.7	7902.7	7940.2	6781.0
72.5°	1202.0	2655.6	5223.0	5712.9	6901.6	7525.3	7402.1	7113.0	7444.9	6973.8	5774.5
75°	851.3	1242.2	2653.1	3175.1	4805.3	5745.1	6218.9	6352.8	6339.3	5530.8	4334.2
77.5°	610.3	797.8	1119.1	1319.9	2682.5	3689.0	4267.2	4658.2	4532.3	3702.4	2671.7
80°	425.7	551.4	685.4	728.2	1244.9	1895.4	2248.8	2420.1	2345.1	1849.9	1196.6
82.5°	307.9	361.4	441.7	468.5	626.5	875.3	1041.4	918.3	880.7	682.7	516.7
85°	238.3	232.9	275.8	286.5	366.8	457.8	468.5	364.1	318.6	283.7	289.1
87.5°	168.7	144.5	147.3	152.6	190.1	243.6	238.3	149.9	128.5	136.6	155.2
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1742.8	1745.4	1750.8	1753.5	1758.8	1758.8	1764.2	1766.8	1772.1	1777.5	1780.3
5°	1774.9	1782.9	1793.6	1799.0	1809.7	1817.7	1828.5	1833.8	1844.6	1852.5	1863.2
7.5°	1823.1	1836.4	1849.9	1865.9	1882.0	1895.4	1906.1	1919.4	1938.3	1951.6	1959.7
10°	1868.7	1887.4	1911.5	1930.2	1954.3	1973.0	1989.1	2013.2	2034.6	2053.3	2064.0
12.5°	1927.6	1951.6	1975.7	2005.1	2037.2	2061.4	2085.4	2117.6	2147.1	2168.5	2179.1
15°	1997.2	2026.5	2053.3	2088.2	2125.6	2157.8	2192.5	2227.4	2248.8	2248.8	2243.4
17.5°	2069.4	2093.5	2125.6	2165.7	2216.7	2256.8	2275.6	2280.9	2272.8	2254.1	2240.7
20°	2141.7	2163.2	2197.9	2246.1	2299.6	2307.7	2288.9	2264.8	2240.7	2208.5	2187.2
22.5°	2200.6	2230.0	2283.5	2339.8	2342.4	2296.9	2246.1	2206.0	2168.5	2131.0	2090.7
25°	2270.2	2310.3	2382.6	2404.0	2334.5	2248.8	2176.5	2117.6	2056.0	1994.4	1948.9
27.5°	2355.8	2414.7	2487.0	2425.4	2288.9	2168.5	2069.4	1981.1	1900.8	1815.1	1764.2
30°	2446.9	2537.9	2553.9	2393.4	2211.3	2056.0	1922.2	1788.2	1686.5	1609.0	1579.5
32.5°	2556.6	2674.4	2578.1	2337.0	2106.8	1903.4	1724.0	1563.4	1477.7	1429.5	1416.2
35°	2722.6	2819.0	2591.4	2278.2	1986.5	1721.4	1496.6	1368.0	1314.5	1282.3	1266.4
37.5°	2960.8	2958.2	2588.8	2206.0	1847.1	1523.3	1314.5	1223.3	1180.5	1153.8	1124.4
40°	3239.3	3065.3	2572.7	2101.5	1659.7	1333.2	1188.6	1103.0	1062.8	1030.7	995.9
42.5°	3515.0	3137.6	2527.1	1946.2	1426.9	1196.6	1097.6	1019.9	977.1	942.4	894.2
45°	3753.3	3167.0	2438.7	1732.1	1218.0	1089.6	1038.7	971.8	920.9	867.4	830.0
47.5°	3940.7	3161.6	2296.9	1480.5	1078.8	1014.6	990.6	945.0	883.5	816.5	768.3
50°	4098.7	3121.5	2104.3	1258.2	985.2	947.8	939.6	926.3	827.2	771.1	741.6
52.5°	4243.2	3062.5	1898.1	1108.3	904.8	872.8	888.9	875.3	805.8	757.6	728.2
55°	4441.3	3022.4	1694.6	993.1	811.1	803.2	816.5	835.3	792.4	746.9	714.8
57.5°	4674.2	3043.9	1539.4	864.7	722.9	728.2	773.7	800.5	779.0	730.8	698.7
60°	4941.9	3108.1	1402.8	741.6	650.5	664.0	730.8	768.3	765.7	709.4	672.0
62.5°	5241.7	3175.1	1185.9	647.9	588.9	610.3	680.0	728.2	736.2	688.0	642.6
63°	5300.6	3180.4	1129.7	629.2	578.2	602.3	666.6	717.5	728.2	682.7	637.2
65°	5445.2	3132.3	910.2	578.2	535.4	562.1	626.5	672.0	693.4	653.3	615.6
67.5°	5324.8	2738.7	685.4	516.7	500.6	519.3	575.6	618.4	637.2	618.4	580.9
70°	4869.5	1991.8	535.4	460.4	463.2	476.5	519.3	559.5	580.9	575.6	540.8
72.5°	3922.0	1129.7	447.1	412.2	420.3	436.4	465.8	503.2	522.0	519.3	495.3
75°	2583.4	578.2	377.5	369.4	374.8	388.2	409.6	439.0	460.4	457.8	447.1
77.5°	1279.7	401.5	324.0	326.5	329.3	340.1	356.0	382.9	396.2	398.9	396.2
80°	527.4	313.2	278.4	281.2	283.7	291.8	302.5	326.5	334.7	340.1	342.6
82.5°	315.9	238.3	222.3	227.6	230.2	238.3	246.3	267.6	275.8	283.7	283.7
85°	208.8	166.0	160.6	166.0	171.3	176.7	179.4	192.8	206.2	216.9	222.3
87.5°	112.4	99.1	96.3	99.1	99.1	104.5	109.8	123.1	139.2	149.9	155.2
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):

	160°	165°	170°	175°	180°
0°	1732.1	1732.1	1732.1	1732.1	1732.1
2.5°	1774.9	1777.5	1774.9	1777.5	1780.3
5°	1863.2	1868.7	1865.9	1865.9	1876.6
7.5°	1965.0	1975.7	1975.7	1981.1	1986.5
10°	2074.8	2085.4	2093.5	2093.5	2101.5
12.5°	2184.5	2189.9	2197.9	2197.9	2197.9
15°	2240.7	2238.0	2235.3	2232.7	2232.7
17.5°	2232.7	2222.0	2216.7	2211.3	2213.9
20°	2173.8	2155.0	2149.6	2141.7	2147.1
22.5°	2072.1	2045.4	2034.6	2021.2	2026.5
25°	1919.4	1887.4	1882.0	1865.9	1874.1
27.5°	1742.8	1726.8	1724.0	1721.4	1734.7
30°	1576.8	1582.2	1584.8	1590.2	1603.6
32.5°	1424.2	1434.9	1437.7	1440.2	1459.0
35°	1274.3	1261.0	1274.3	1268.9	1285.0
37.5°	1110.9	1100.2	1089.6	1076.2	1086.9
40°	974.5	955.7	923.6	907.5	910.2
42.5°	867.4	843.3	816.5	800.5	800.5
45°	797.8	768.3	744.3	733.5	733.5
47.5°	744.3	730.8	717.5	709.4	709.4
50°	722.9	706.8	698.7	693.4	693.4
52.5°	706.8	690.7	682.7	677.3	672.0
55°	693.4	669.3	661.2	658.7	658.7
57.5°	674.6	653.3	642.6	639.8	639.8
60°	645.1	629.2	618.4	615.6	615.6
62.5°	615.6	599.7	588.9	588.9	588.9
63°	610.3	591.6	583.6	583.6	583.6
65°	586.2	567.5	559.5	559.5	556.7
67.5°	554.2	535.4	530.0	530.0	524.7
70°	516.7	500.6	495.3	497.9	487.2
72.5°	479.2	463.2	455.1	455.1	444.3
75°	436.4	420.3	409.6	406.9	396.2
77.5°	388.2	374.8	364.1	353.4	348.0
80°	337.3	326.5	313.2	305.2	297.1
82.5°	283.7	273.0	265.1	275.8	235.6
85°	222.3	211.5	200.8	216.9	168.7
87.5°	163.4	158.0	147.3	128.5	112.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)