

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: P257926

Luminaire Tested: **ARCH-L-AF72-100-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257926
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-AF72-100-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 13575.5 lumens
Efficiency: N/A
Efficacy: 133.1 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

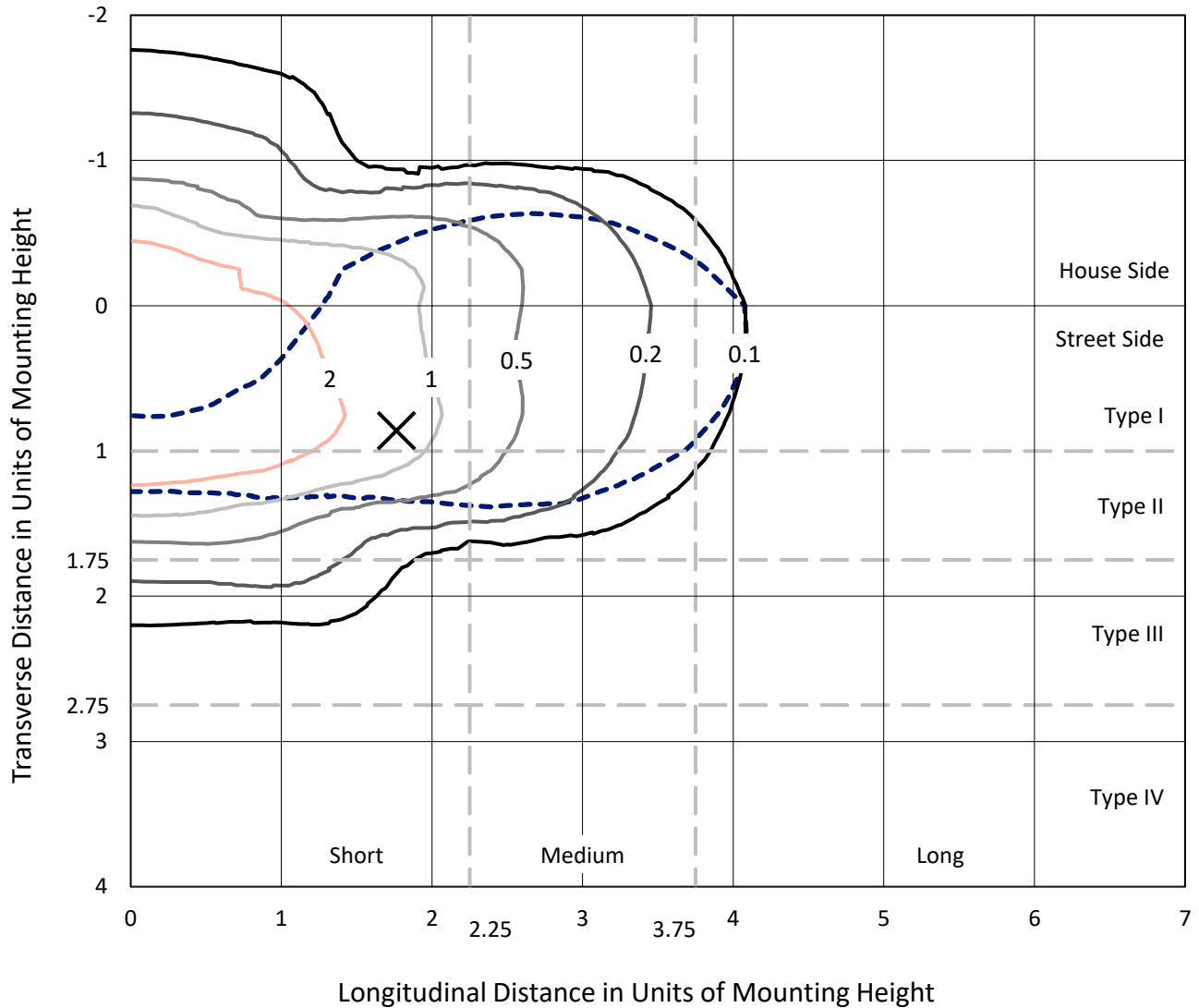
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

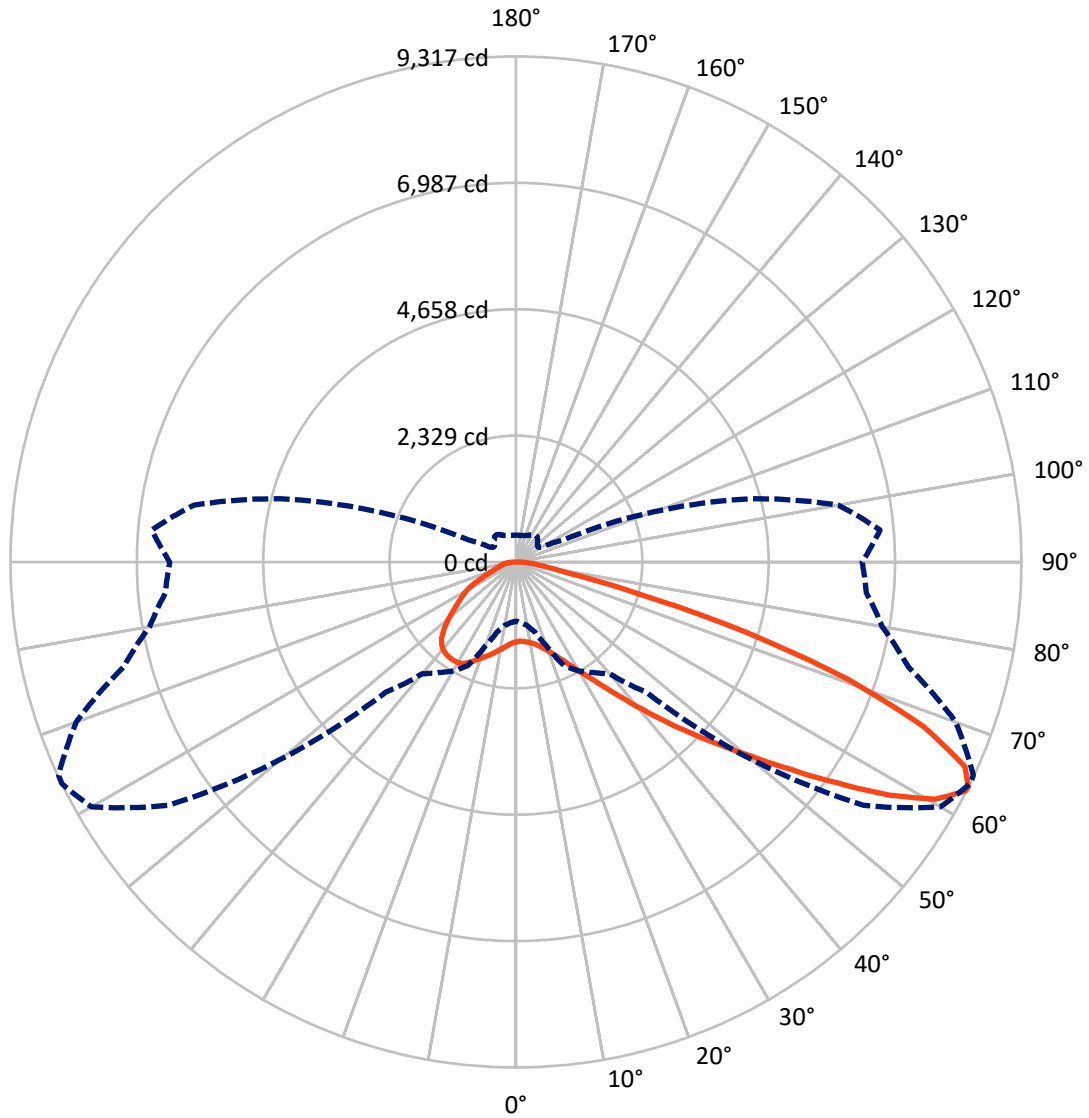
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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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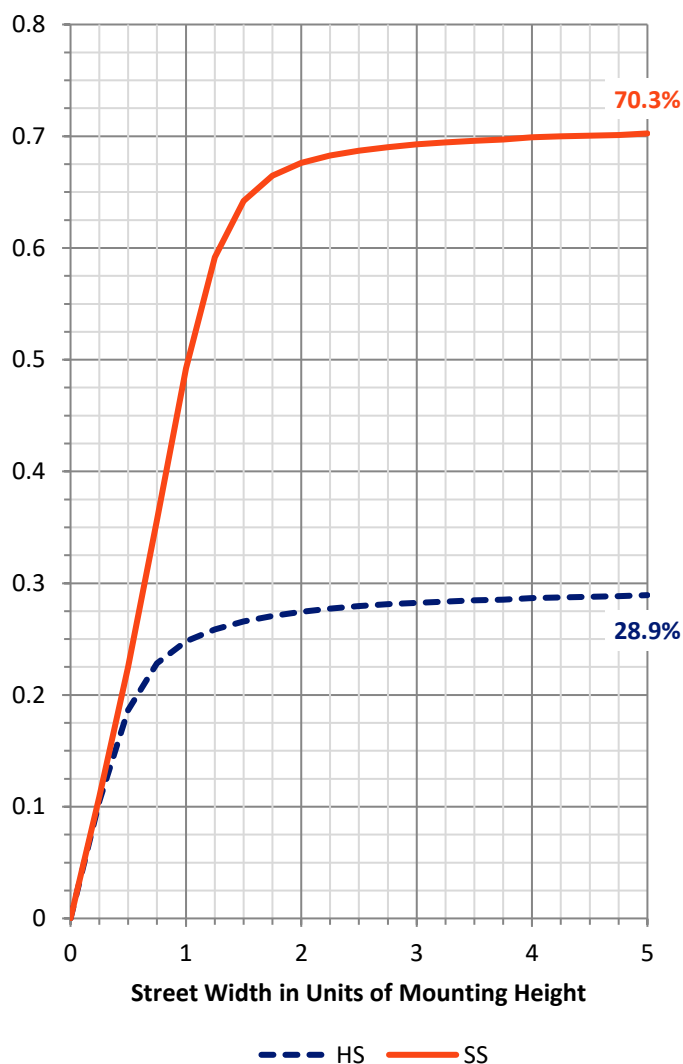
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3990.7	0.0	3990.7
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	9584.8	0.0	9584.8
	% Fixture	70.6	0.0	70.6
Total	Lumens	13575.5	0.0	13575.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	1.1
10°-20°	488.9	3.6
20°-30°	917.8	6.8
30°-40°	1538.3	11.3
40°-50°	2580.9	19.0
50°-60°	3271.8	24.1
60°-70°	2886.2	21.3
70°-80°	1489.9	11.0
80°-90°	254.9	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°	13575.5	100.0
0°-180°	13575.5	100.0

Coefficient of Utilization



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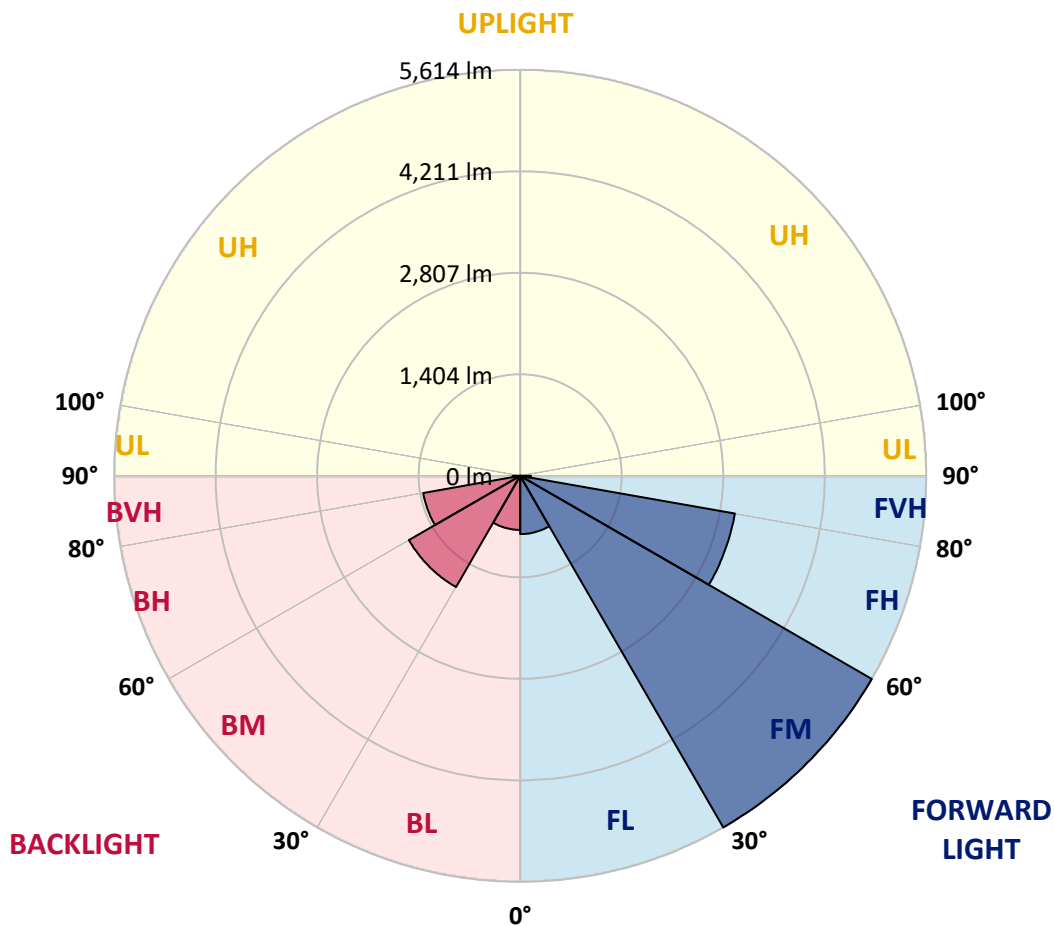
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	805.7	5.9			
FM (30°-60°)	5614.5	41.4			
FH (60°-80°)	3014.5	22.2			G2/5000
FVH (80°-90°)	150.0	1.1			G2/225
BL (0°-30°)	747.7	5.5	B2/1000		
BM (30°-60°)	1776.5	13.1	B2/2500		
BH (60°-80°)	1361.6	10.0	B3/2500		G3/2500
BVH (80°-90°)	104.9	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°	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2
2.5°	1461.2	1458.8	1458.8	1458.8	1458.8	1456.5	1458.8	1463.4	1461.2	1458.8	1463.4
5°	1465.7	1463.4	1463.4	1463.4	1465.7	1463.4	1465.7	1472.5	1467.9	1467.9	1472.5
7.5°	1477.0	1474.8	1477.0	1474.8	1474.8	1474.8	1477.0	1483.8	1481.5	1483.8	1490.7
10°	1490.7	1490.7	1490.7	1490.7	1490.7	1490.7	1495.2	1499.8	1502.0	1504.3	1513.4
12.5°	1531.6	1531.6	1531.6	1529.3	1529.3	1522.5	1531.6	1536.0	1540.7	1545.3	1552.0
15°	1617.9	1617.9	1615.6	1606.5	1606.5	1592.9	1595.1	1597.5	1597.5	1602.0	1606.5
17.5°	1731.5	1729.2	1724.7	1717.9	1708.9	1692.9	1688.4	1683.8	1677.0	1674.7	1674.7
20°	1890.6	1888.3	1879.3	1861.0	1849.6	1824.7	1806.5	1788.3	1781.6	1770.2	1768.0
22.5°	2117.9	2117.9	2099.6	2072.4	2063.3	2011.0	1958.8	1920.1	1906.5	1890.6	1890.6
25°	2392.8	2390.5	2365.6	2333.7	2295.1	2240.6	2176.9	2124.6	2090.5	2054.2	2040.5
27.5°	2722.3	2715.4	2681.3	2642.8	2570.0	2501.8	2426.8	2372.3	2313.2	2267.7	2226.9
30°	3108.5	3101.8	3042.7	2970.0	2895.0	2826.9	2717.8	2651.8	2558.7	2504.1	2458.7
32.5°	3556.3	3549.4	3442.6	3372.2	3292.6	3208.6	3079.0	2974.5	2856.4	2779.1	2715.4
35°	4126.6	4099.3	3947.1	3849.4	3724.4	3640.3	3504.0	3363.1	3224.5	3115.4	3022.2
37.5°	4742.4	4710.6	4576.6	4431.1	4308.4	4206.2	4013.0	3835.8	3672.1	3522.2	3406.2
40°	5385.5	5301.4	5158.2	5051.5	4967.4	4869.6	4667.4	4481.0	4224.3	4056.1	3881.2
42.5°	5830.8	5749.1	5649.1	5578.7	5537.7	5462.8	5349.2	5187.8	4958.3	4962.9	4501.6
45°	6124.0	6003.6	5935.4	5940.0	5955.8	5955.8	5935.4	5910.4	5810.4	5878.5	5492.3
47.5°	6019.5	5940.0	5896.7	5987.6	6101.2	6214.8	6346.7	6489.9	6653.5	6846.6	6371.7
50°	5405.9	5435.5	5456.0	5649.1	5892.3	6151.3	6453.5	6844.3	7301.1	7389.7	7160.2
52.5°	4426.5	4490.2	4558.4	4853.8	5174.2	5621.8	6151.3	6796.6	7410.2	7771.5	7748.7
55°	3438.1	3517.6	3663.0	3883.5	4137.9	4560.6	5215.1	6210.4	7167.0	7741.9	8091.8
57.5°	2447.3	2563.2	2754.1	3060.9	3285.9	3524.3	4008.4	5112.8	6160.4	7230.7	8035.0
60°	1627.0	1681.5	1806.5	2188.3	2567.8	2817.7	3160.9	3560.8	4417.5	5892.3	7448.7
62.5°	1154.4	1190.7	1268.0	1440.7	1783.7	2236.0	2442.8	2626.8	2901.8	3790.3	5980.9
63°	1090.7	1122.5	1186.1	1331.7	1640.6	2108.7	2320.1	2488.3	2688.3	3390.4	5658.2
65°	904.4	918.0	952.0	1022.5	1188.4	1577.0	1922.4	2024.7	2058.8	2179.1	3544.9
67.5°	763.5	772.6	783.9	804.3	870.4	1049.9	1433.8	1563.4	1524.7	1443.0	1752.0
70°	663.5	670.3	688.6	713.6	736.3	781.6	986.2	1179.4	1136.2	1024.9	1072.6
72.5°	529.5	540.9	561.3	604.4	649.9	709.0	759.0	879.4	852.1	745.3	756.7
75°	418.1	424.9	443.1	474.9	518.1	586.2	684.0	724.9	649.9	549.9	549.9
77.5°	331.7	338.6	354.4	379.4	406.8	454.5	522.7	629.5	584.0	413.5	411.3
80°	249.9	256.8	272.7	295.4	322.7	356.7	397.7	445.3	536.3	386.3	309.1
82.5°	184.1	186.3	213.6	229.6	238.6	265.8	299.9	327.2	368.1	356.7	275.0
85°	138.6	136.3	154.5	165.8	168.2	175.0	195.5	222.7	240.9	231.7	213.6
87.5°	77.2	68.2	79.5	90.9	90.9	93.2	97.7	113.6	129.5	125.0	113.6
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°	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2
2.5°	1463.4	1463.4	1461.2	1461.2	1463.4	1463.4	1461.2	1467.9	1472.5	1472.5	1474.8
5°	1470.2	1472.5	1470.2	1470.2	1472.5	1472.5	1474.8	1481.5	1488.4	1492.9	1499.8
7.5°	1490.7	1492.9	1490.7	1490.7	1492.9	1495.2	1499.8	1508.9	1513.4	1522.5	1533.9
10°	1513.4	1515.7	1513.4	1515.7	1517.9	1520.3	1527.0	1533.9	1540.7	1549.8	1568.0
12.5°	1554.3	1556.6	1552.0	1554.3	1561.1	1561.1	1565.6	1570.2	1581.5	1592.9	1611.1
15°	1611.1	1611.1	1606.5	1608.9	1615.6	1615.6	1617.9	1622.5	1636.0	1649.7	1668.0
17.5°	1677.0	1681.5	1679.4	1681.5	1686.1	1688.4	1688.4	1692.9	1702.0	1711.1	1729.2
20°	1765.6	1768.0	1763.3	1768.0	1772.4	1768.0	1763.3	1761.0	1765.6	1770.2	1790.6
22.5°	1886.1	1883.7	1872.3	1872.3	1872.3	1863.3	1852.0	1838.3	1838.3	1831.5	1847.5
25°	2029.2	2022.4	2006.5	2008.7	1992.9	1979.2	1958.8	1938.4	1920.1	1913.3	1915.7
27.5°	2197.4	2183.8	2167.8	2163.4	2147.4	2122.4	2088.3	2049.7	2020.1	1997.4	1992.9
30°	2408.7	2379.1	2352.0	2347.3	2322.3	2281.5	2226.9	2174.7	2124.6	2086.0	2072.4
32.5°	2658.8	2613.3	2570.0	2565.5	2524.6	2470.1	2404.1	2331.5	2258.7	2197.4	2167.8
35°	2951.7	2883.6	2842.7	2831.4	2772.2	2704.0	2631.4	2538.2	2435.9	2349.6	2295.1
37.5°	3308.6	3238.1	3167.7	3169.9	3088.1	3008.6	2910.8	2797.2	2667.8	2547.3	2470.1
40°	3749.3	3649.4	3558.5	3538.1	3467.7	3356.2	3249.5	3117.7	2958.6	2799.5	2688.3
42.5°	4283.4	4119.8	3994.8	3976.6	3883.5	3747.1	3617.6	3442.6	3281.3	3088.1	2954.1
45°	4890.1	4628.8	4478.9	4451.6	4301.5	4163.0	4006.2	3819.8	3622.2	3404.0	3244.9
47.5°	5644.6	5271.9	5017.4	4972.0	4765.2	4583.3	4419.7	4212.9	3976.6	3733.5	3558.5
50°	6524.0	5974.1	5630.9	5560.4	5283.2	5069.6	4860.6	4601.6	4349.3	4094.8	3892.6
52.5°	7405.6	6814.8	6358.1	6271.7	5862.8	5576.4	5301.4	5042.4	4744.7	4492.4	4263.0
55°	8114.5	7721.5	7192.0	7071.6	6485.3	6096.7	5735.4	5440.0	5144.6	4944.6	4674.2
57.5°	8541.8	8521.3	8103.2	7937.3	7135.1	6560.3	6158.1	5821.8	5535.5	5451.4	5092.3
60°	8530.4	9059.9	8880.4	8755.4	7792.0	7035.2	6512.6	6149.0	5912.7	6008.1	5512.7
62.5°	8010.1	9082.6	9298.5	9264.4	8491.8	7416.9	6803.5	6428.5	6303.5	6587.6	5949.0
63°	7821.5	9030.4	9316.6	9303.0	8625.9	7489.7	6853.4	6483.0	6380.7	6735.3	6028.6
65°	6610.3	8573.6	9096.3	9157.6	8914.5	7739.7	6969.3	6621.6	6610.3	7064.8	6217.2
67.5°	4028.9	7244.3	8103.2	8221.4	8507.7	7819.1	6903.4	6573.9	6737.6	7112.4	6160.4
70°	1722.5	4781.0	6512.6	6703.5	7403.3	7423.8	6714.8	6378.5	6708.0	6739.7	5755.9
72.5°	1020.3	2254.1	4433.4	4849.3	5858.2	6387.7	6283.1	6037.6	6319.4	5919.4	4901.5
75°	722.6	1054.4	2252.0	2695.0	4078.8	4876.5	5278.7	5392.3	5380.9	4694.7	3679.0
77.5°	518.1	677.2	949.9	1120.2	2276.9	3131.3	3622.2	3953.9	3847.1	3142.7	2267.7
80°	361.3	468.0	581.7	618.1	1056.6	1608.9	1908.8	2054.2	1990.6	1570.2	1015.8
82.5°	261.3	306.8	375.0	397.7	531.8	743.1	883.9	779.4	747.6	579.4	438.5
85°	202.2	197.6	234.1	243.1	311.3	388.5	397.7	309.1	270.4	240.9	245.4
87.5°	143.1	122.7	125.0	129.5	161.3	206.8	202.2	127.3	109.0	116.0	131.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2	1470.2
2.5°	1479.3	1481.5	1486.2	1488.4	1492.9	1492.9	1497.5	1499.8	1504.3	1508.9	1511.2
5°	1506.5	1513.4	1522.5	1527.0	1536.0	1543.0	1552.0	1556.6	1565.6	1572.5	1581.5
7.5°	1547.4	1558.8	1570.2	1583.8	1597.5	1608.9	1617.9	1629.3	1645.2	1656.6	1663.4
10°	1586.1	1602.0	1622.5	1638.4	1658.8	1674.7	1688.4	1708.9	1727.0	1742.9	1752.0
12.5°	1636.0	1656.6	1677.0	1702.0	1729.2	1749.7	1770.2	1797.5	1822.5	1840.6	1849.6
15°	1695.1	1720.2	1742.9	1772.4	1804.3	1831.5	1861.0	1890.6	1908.8	1908.8	1904.3
17.5°	1756.6	1777.0	1804.3	1838.3	1881.6	1915.7	1931.4	1936.1	1929.2	1913.3	1901.9
20°	1817.8	1836.1	1865.6	1906.5	1951.9	1958.8	1942.8	1922.4	1901.9	1874.7	1856.6
22.5°	1867.9	1892.9	1938.4	1986.0	1988.3	1949.7	1906.5	1872.3	1840.6	1808.8	1774.7
25°	1927.0	1961.1	2022.4	2040.5	1981.5	1908.8	1847.5	1797.5	1745.2	1692.9	1654.3
27.5°	1999.7	2049.7	2111.0	2058.8	1942.8	1840.6	1756.6	1681.5	1613.3	1540.7	1497.5
30°	2076.9	2154.1	2167.8	2031.4	1877.0	1745.2	1631.6	1517.9	1431.7	1365.7	1340.7
32.5°	2170.1	2270.1	2188.3	1983.8	1788.3	1615.6	1463.4	1327.1	1254.3	1213.5	1202.1
35°	2311.0	2392.8	2199.6	1933.8	1686.1	1461.2	1270.2	1161.2	1115.7	1088.4	1074.8
37.5°	2513.2	2511.0	2197.4	1872.3	1568.0	1293.0	1115.7	1038.5	1002.1	979.4	954.4
40°	2749.5	2601.9	2183.8	1783.7	1408.9	1131.6	1008.9	936.3	902.2	874.8	845.3
42.5°	2983.7	2663.2	2145.1	1652.0	1211.1	1015.8	931.7	865.8	829.4	799.9	759.0
45°	3185.9	2688.3	2070.1	1470.2	1033.9	924.9	881.7	824.9	781.6	736.3	704.4
47.5°	3344.9	2683.6	1949.7	1256.6	915.8	861.2	840.7	802.2	749.8	693.0	652.2
50°	3479.1	2649.5	1786.1	1068.0	836.3	804.3	797.6	786.2	702.2	654.5	629.5
52.5°	3601.7	2599.6	1611.1	940.7	768.1	740.8	754.4	743.1	684.0	643.1	618.1
55°	3769.9	2565.5	1438.4	843.1	688.6	681.7	693.0	709.0	672.6	634.0	606.7
57.5°	3967.5	2583.7	1306.6	734.0	613.5	618.1	656.7	679.5	661.2	620.4	593.1
60°	4194.8	2638.2	1190.7	629.5	552.2	563.6	620.4	652.2	649.9	602.1	570.4
62.5°	4449.2	2695.0	1006.6	549.9	500.0	518.1	577.2	618.1	624.9	584.0	545.3
63°	4499.3	2699.6	959.0	533.9	490.8	511.4	565.9	609.0	618.1	579.4	540.9
65°	4622.0	2658.8	772.6	490.8	454.5	477.3	531.8	570.4	588.6	554.5	522.7
67.5°	4519.7	2324.6	581.7	438.5	424.9	440.9	488.6	524.9	540.9	524.9	493.1
70°	4133.4	1690.7	454.5	390.8	393.2	404.5	440.9	474.9	493.1	488.6	459.0
72.5°	3329.0	959.0	379.4	349.9	356.7	370.4	395.4	427.2	443.1	440.9	420.4
75°	2192.9	490.8	320.3	313.6	318.2	329.5	347.7	372.7	390.8	388.5	379.4
77.5°	1086.1	340.9	275.0	277.2	279.4	288.6	302.2	324.9	336.3	338.6	336.3
80°	447.6	265.8	236.3	238.6	240.9	247.7	256.8	277.2	284.1	288.6	290.8
82.5°	268.1	202.2	188.6	193.2	195.5	202.2	209.0	227.3	234.1	240.9	240.9
85°	177.2	140.8	136.3	140.8	145.5	150.0	152.2	163.6	175.0	184.1	188.6
87.5°	95.5	84.1	81.8	84.1	84.1	88.6	93.2	104.6	118.1	127.3	131.7
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):

	160°	165°	170°	175°	180°
0°	1470.2	1470.2	1470.2	1470.2	1470.2
2.5°	1506.5	1508.9	1506.5	1508.9	1511.2
5°	1581.5	1586.1	1583.8	1583.8	1592.9
7.5°	1668.0	1677.0	1677.0	1681.5	1686.1
10°	1761.0	1770.2	1777.0	1777.0	1783.7
12.5°	1854.2	1858.8	1865.6	1865.6	1865.6
15°	1901.9	1899.7	1897.4	1895.1	1895.1
17.5°	1895.1	1886.1	1881.6	1877.0	1879.3
20°	1845.2	1829.2	1824.7	1817.8	1822.5
22.5°	1758.8	1736.1	1727.0	1715.6	1720.2
25°	1629.3	1602.0	1597.5	1583.8	1590.7
27.5°	1479.3	1465.7	1463.4	1461.2	1472.5
30°	1338.4	1343.1	1345.2	1349.8	1361.2
32.5°	1208.9	1218.0	1220.2	1222.5	1238.5
35°	1081.6	1070.3	1081.6	1077.1	1090.7
37.5°	943.0	933.9	924.9	913.5	922.5
40°	827.1	811.2	783.9	770.3	772.6
42.5°	736.3	715.7	693.0	679.5	679.5
45°	677.2	652.2	631.7	622.7	622.7
47.5°	631.7	620.4	609.0	602.1	602.1
50°	613.5	600.0	593.1	588.6	588.6
52.5°	600.0	586.2	579.4	574.9	570.4
55°	588.6	568.0	561.3	559.0	559.0
57.5°	572.6	554.5	545.3	543.1	543.1
60°	547.6	533.9	524.9	522.7	522.7
62.5°	522.7	509.0	500.0	500.0	500.0
63°	518.1	502.1	495.4	495.4	495.4
65°	497.6	481.8	474.9	474.9	472.6
67.5°	470.4	454.5	449.9	449.9	445.3
70°	438.5	424.9	420.4	422.7	413.5
72.5°	406.8	393.2	386.3	386.3	377.2
75°	370.4	356.7	347.7	345.4	336.3
77.5°	329.5	318.2	309.1	299.9	295.4
80°	286.4	277.2	265.8	259.1	252.3
82.5°	240.9	231.7	225.0	234.1	200.0
85°	188.6	179.5	170.5	184.1	143.1
87.5°	138.6	134.1	125.0	109.0	95.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)