

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: P265610

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-130-D-U-T2U-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15399.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

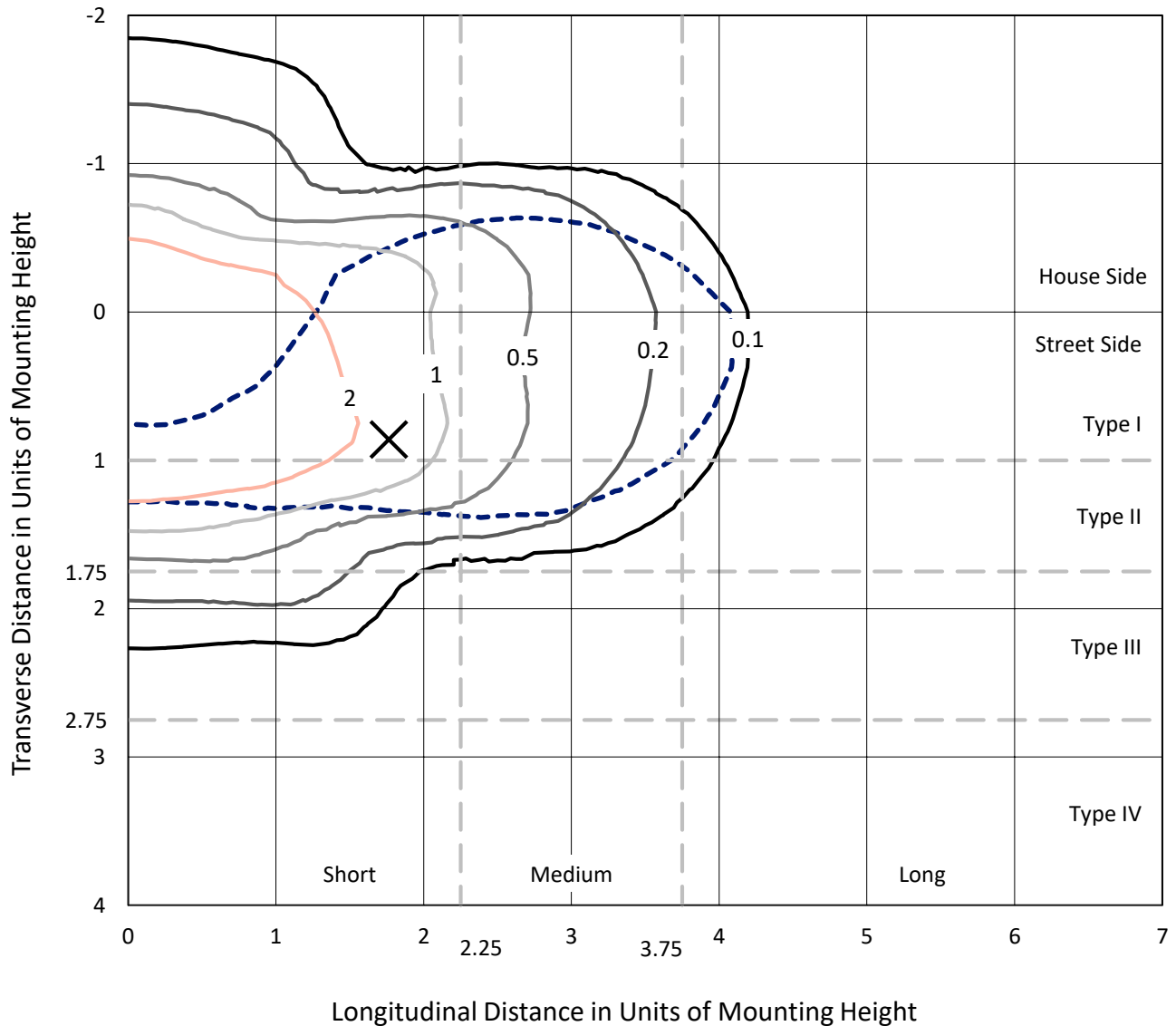
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

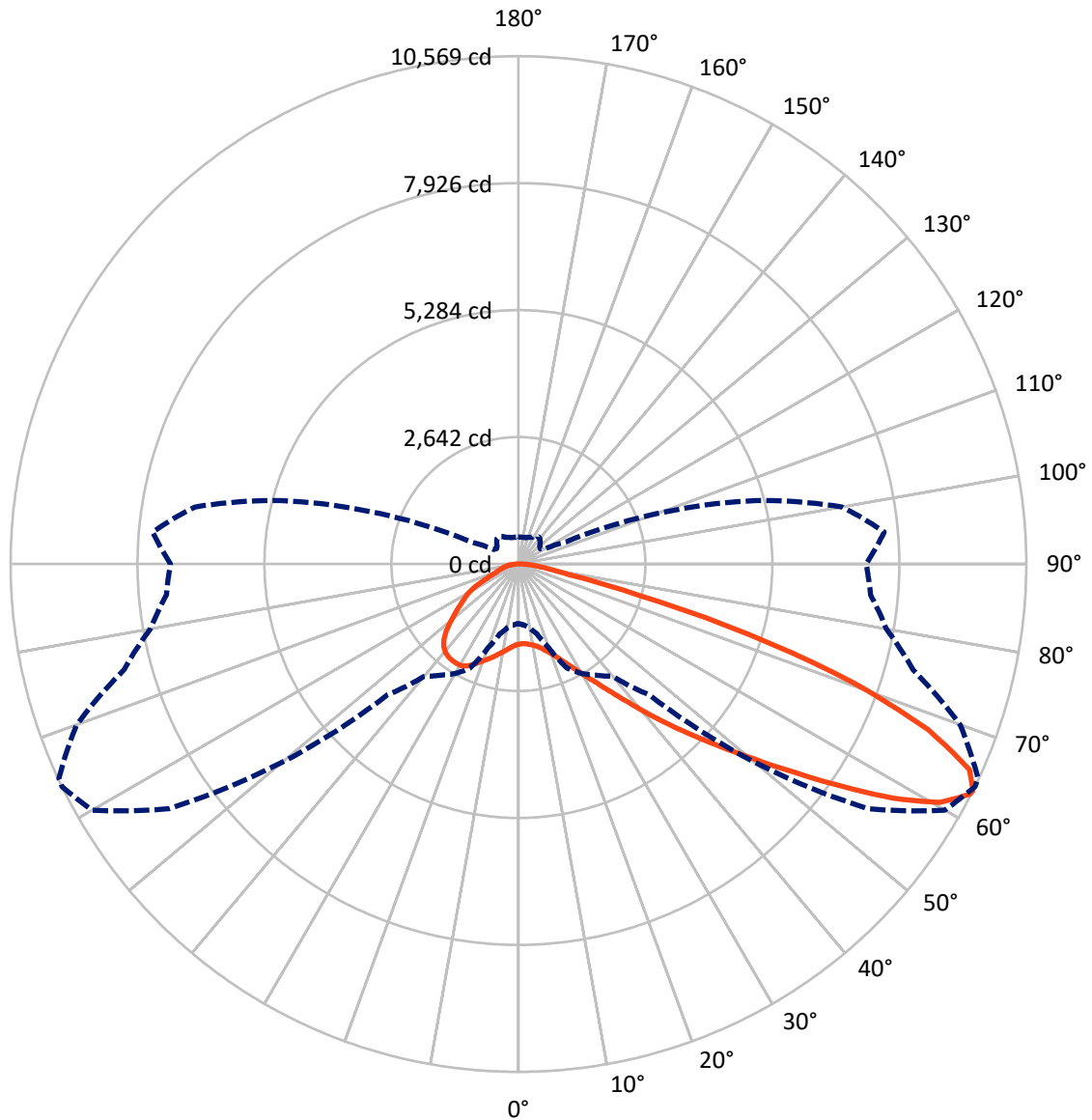
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Semi-Cutoff

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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	4526.9	0.0	4526.9
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	10872.6	0.0	10872.6
	% Fixture	70.6	0.0	70.6
Total	Lumens	15399.5	0.0	15399.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.1
10°-20°	554.6	3.6
20°-30°	1041.1	6.8
30°-40°	1745.0	11.3
40°-50°	2927.6	19.0
50°-60°	3711.4	24.1
60°-70°	3274.0	21.3
70°-80°	1690.1	11.0
80°-90°	289.2	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°	15399.5	100.0
0°-180°	15399.5	100.0



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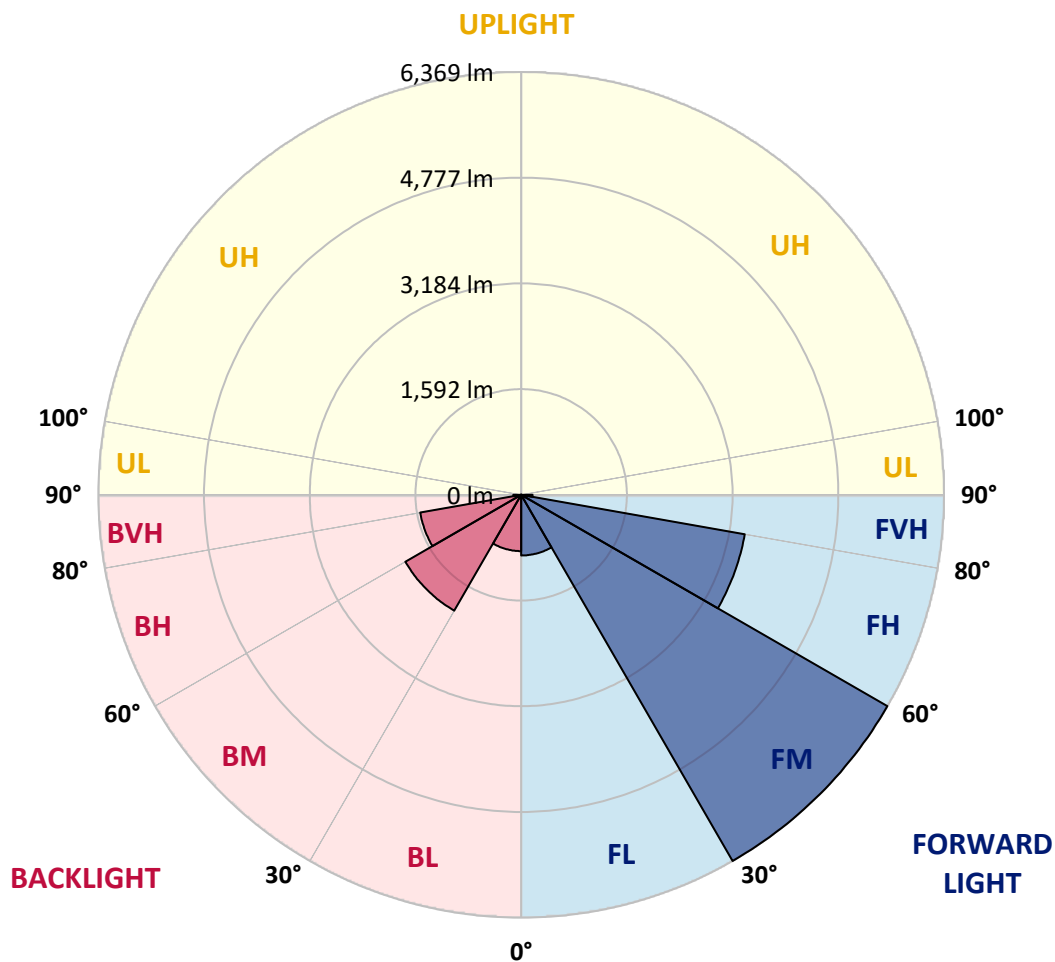
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	914.0	5.9			
FM (30°-60°)	6368.8	41.4			
FH (60°-80°)	3419.6	22.2			G2/5000
FVH (80°-90°)	170.2	1.1			G2/225
BL (0°-30°)	848.2	5.5	B2/1000		
BM (30°-60°)	2015.2	13.1	B2/2500		
BH (60°-80°)	1544.5	10.0	B3/2500		G3/2500
BVH (80°-90°)	119.0	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°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1657.5	1654.9	1654.9	1654.9	1654.9	1652.3	1654.9	1660.0	1657.5	1654.9	1660.0
5°	1662.7	1660.0	1660.0	1660.0	1662.7	1660.0	1662.7	1670.3	1665.2	1665.2	1670.3
7.5°	1675.5	1673.0	1675.5	1673.0	1673.0	1673.0	1675.5	1683.2	1680.6	1683.2	1691.0
10°	1691.0	1691.0	1691.0	1691.0	1691.0	1691.0	1696.1	1701.3	1703.8	1706.4	1716.8
12.5°	1737.3	1737.3	1737.3	1734.7	1734.7	1727.0	1737.3	1742.5	1747.7	1752.9	1760.6
15°	1835.2	1835.2	1832.7	1822.4	1822.4	1806.9	1809.5	1812.2	1812.2	1817.2	1822.4
17.5°	1964.1	1961.5	1956.5	1948.8	1938.5	1920.3	1915.1	1910.1	1902.3	1899.7	1899.7
20°	2144.7	2142.1	2131.8	2111.0	2098.3	2069.9	2049.3	2028.6	2020.8	2008.0	2005.5
22.5°	2402.3	2402.3	2381.8	2350.9	2340.5	2281.2	2222.0	2178.1	2162.7	2144.7	2144.7
25°	2714.3	2711.8	2683.3	2647.2	2603.5	2541.6	2469.4	2410.2	2371.4	2330.3	2314.8
27.5°	3088.1	3080.3	3041.7	2997.9	2915.4	2838.0	2752.9	2691.1	2624.0	2572.6	2526.2
30°	3526.2	3518.5	3451.5	3369.1	3283.9	3206.6	3083.0	3008.2	2902.5	2840.6	2789.1
32.5°	4034.1	4026.4	3905.2	3825.3	3735.1	3639.7	3492.7	3374.2	3240.1	3152.5	3080.3
35°	4681.1	4650.2	4477.4	4366.7	4224.8	4129.4	3974.8	3814.9	3657.7	3534.0	3428.3
37.5°	5379.6	5343.5	5191.5	5026.5	4887.3	4771.3	4552.3	4351.1	4165.5	3995.4	3863.9
40°	6109.1	6013.8	5851.3	5730.2	5634.8	5523.9	5294.5	5083.1	4791.9	4601.2	4402.7
42.5°	6614.3	6521.5	6408.1	6328.2	6281.8	6196.7	6067.8	5884.8	5624.5	5629.7	5106.3
45°	6946.9	6810.2	6732.8	6738.0	6756.1	6756.1	6732.8	6704.5	6591.1	6668.5	6230.3
47.5°	6828.2	6738.0	6689.0	6792.2	6921.0	7049.9	7199.5	7361.8	7547.4	7766.6	7227.9
50°	6132.3	6165.7	6189.1	6408.1	6683.8	6977.8	7320.6	7764.0	8282.1	8382.5	8122.3
52.5°	5021.3	5093.5	5170.9	5505.9	5869.3	6377.2	6977.8	7709.9	8405.8	8815.6	8789.8
55°	3900.0	3990.2	4155.2	4405.3	4694.0	5173.3	5915.8	7044.8	8130.0	8782.1	9179.2
57.5°	2776.1	2907.6	3124.1	3472.0	3727.2	3997.9	4547.0	5799.7	6988.1	8202.2	9114.7
60°	1845.6	1907.6	2049.3	2482.2	2912.8	3196.3	3585.6	4039.1	5010.9	6683.8	8449.5
62.5°	1309.5	1350.7	1438.4	1634.2	2023.5	2536.5	2771.0	2979.8	3291.7	4299.6	6784.4
63°	1237.2	1273.3	1345.5	1510.5	1861.1	2392.0	2631.9	2822.6	3049.3	3845.9	6418.4
65°	1026.0	1041.3	1080.0	1159.9	1348.1	1789.0	2180.7	2296.6	2335.4	2472.0	4021.2
67.5°	866.1	876.3	889.3	912.5	987.2	1191.0	1626.6	1773.4	1729.6	1636.8	1987.4
70°	752.7	760.4	781.0	809.5	835.2	886.6	1118.7	1337.8	1288.9	1162.5	1216.7
72.5°	600.5	613.5	636.7	685.6	737.1	804.3	860.9	997.6	966.7	845.5	858.4
75°	474.2	482.0	502.6	538.8	587.8	665.0	775.9	822.3	737.1	623.9	623.9
77.5°	376.3	384.0	402.1	430.5	461.4	515.5	592.9	714.1	662.5	469.2	466.6
80°	283.5	291.3	309.3	335.1	366.0	404.6	451.0	505.2	608.3	438.3	350.6
82.5°	208.8	211.5	242.4	260.4	270.7	301.7	340.3	371.2	417.6	404.6	311.9
85°	157.3	154.7	175.3	188.1	190.7	198.4	221.7	252.7	273.3	262.9	242.4
87.5°	87.7	77.3	90.2	103.1	103.1	105.7	110.9	128.8	147.0	141.8	128.8
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°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1660.0	1660.0	1657.5	1657.5	1660.0	1660.0	1657.5	1665.2	1670.3	1670.3	1673.0
5°	1667.8	1670.3	1667.8	1667.8	1670.3	1670.3	1673.0	1680.6	1688.4	1693.6	1701.3
7.5°	1691.0	1693.6	1691.0	1691.0	1693.6	1696.1	1701.3	1711.6	1716.8	1727.0	1739.9
10°	1716.8	1719.3	1716.8	1719.3	1722.0	1724.4	1732.2	1739.9	1747.7	1758.0	1778.6
12.5°	1763.2	1765.7	1760.6	1763.2	1770.9	1770.9	1775.9	1781.2	1794.1	1806.9	1827.6
15°	1827.6	1827.6	1822.4	1824.9	1832.7	1832.7	1835.2	1840.4	1855.9	1871.3	1892.0
17.5°	1902.3	1907.6	1904.9	1907.6	1912.6	1915.1	1915.1	1920.3	1930.6	1941.0	1961.5
20°	2002.9	2005.5	2000.3	2005.5	2010.5	2005.5	2000.3	1997.7	2002.9	2008.0	2031.2
22.5°	2139.5	2136.9	2124.0	2124.0	2124.0	2113.7	2100.7	2085.3	2085.3	2077.6	2095.7
25°	2301.8	2294.1	2276.0	2278.7	2260.7	2245.1	2222.0	2198.7	2178.1	2170.5	2173.0
27.5°	2492.5	2477.2	2459.1	2453.9	2435.9	2407.5	2368.9	2325.1	2291.5	2265.7	2260.7
30°	2732.4	2698.8	2667.8	2662.8	2634.4	2587.9	2526.2	2466.8	2410.2	2366.2	2350.9
32.5°	3015.9	2964.3	2915.4	2910.1	2863.7	2802.0	2727.2	2644.7	2562.1	2492.5	2459.1
35°	3348.4	3271.1	3224.6	3211.8	3144.7	3067.4	2985.0	2879.2	2763.2	2665.4	2603.5
37.5°	3753.1	3673.2	3593.3	3595.8	3503.1	3412.8	3302.0	3173.2	3026.2	2889.6	2802.0
40°	4253.1	4139.7	4036.7	4013.4	3933.5	3807.2	3686.0	3536.5	3356.2	3175.7	3049.3
42.5°	4858.9	4673.3	4531.5	4510.8	4405.3	4250.6	4103.6	3905.2	3722.1	3503.1	3350.9
45°	5547.2	5250.8	5080.6	5049.6	4879.6	4722.3	4544.4	4333.1	4108.8	3861.4	3681.0
47.5°	6402.8	5980.1	5691.5	5640.0	5405.5	5199.2	5013.6	4779.1	4510.8	4235.1	4036.7
50°	7400.4	6776.8	6387.5	6307.5	5993.1	5750.8	5513.6	5219.8	4933.8	4645.0	4415.6
52.5°	8400.6	7730.5	7212.3	7114.3	6650.4	6325.7	6013.8	5719.9	5382.1	5096.1	4835.8
55°	9204.8	8759.0	8158.3	8021.8	7356.7	6916.0	6506.1	6170.9	5835.8	5608.9	5302.2
57.5°	9689.5	9666.3	9191.9	9003.8	8093.9	7441.6	6985.5	6604.0	6279.2	6183.8	5776.6
60°	9676.6	10277.1	10073.6	9931.8	8838.9	7980.5	7387.7	6975.2	6707.1	6815.4	6253.5
62.5°	9086.3	10302.9	10547.8	10509.2	9632.7	8413.5	7717.6	7292.3	7150.5	7472.7	6748.3
63°	8872.3	10243.6	10568.5	10553.0	9784.9	8496.0	7774.2	7354.2	7238.2	7640.3	6838.5
65°	7498.4	9725.6	10318.4	10388.0	10112.2	8779.6	7905.8	7511.4	7498.4	8014.0	7052.6
67.5°	4570.1	8217.6	9191.9	9326.1	9650.9	8869.8	7831.0	7457.2	7642.8	8068.0	6988.1
70°	1953.9	5423.3	7387.7	7604.2	8398.1	8421.3	7617.0	7235.5	7609.4	7645.4	6529.2
72.5°	1157.3	2557.0	5029.0	5500.7	6645.2	7245.8	7127.2	6848.9	7168.6	6714.8	5560.0
75°	819.8	1196.1	2554.5	3057.1	4626.9	5531.8	5987.9	6116.7	6104.0	5325.4	4173.3
77.5°	587.8	768.1	1077.4	1270.8	2582.8	3552.1	4108.8	4485.1	4364.0	3565.0	2572.6
80°	409.8	531.0	659.9	701.1	1198.6	1824.9	2165.3	2330.3	2258.0	1781.2	1152.3
82.5°	296.4	348.1	425.3	451.0	603.2	842.9	1002.7	884.1	848.1	657.3	497.5
85°	229.3	224.2	265.4	275.8	353.2	440.8	451.0	350.6	306.7	273.3	278.4
87.5°	162.5	139.1	141.8	147.0	183.1	234.5	229.3	144.4	123.7	131.4	149.5
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1678.0	1680.6	1685.8	1688.4	1693.6	1693.6	1698.7	1701.3	1706.4	1711.6	1714.1
5°	1708.9	1716.8	1727.0	1732.2	1742.5	1750.3	1760.6	1765.7	1775.9	1783.8	1794.1
7.5°	1755.4	1768.3	1781.2	1796.6	1812.2	1824.9	1835.2	1848.3	1866.1	1879.2	1886.9
10°	1799.2	1817.2	1840.4	1858.6	1881.7	1899.7	1915.1	1938.5	1959.1	1977.1	1987.4
12.5°	1855.9	1879.2	1902.3	1930.6	1961.5	1984.8	2008.0	2039.0	2067.3	2087.9	2098.3
15°	1922.9	1951.3	1977.1	2010.5	2046.7	2077.6	2111.0	2144.7	2165.3	2165.3	2160.1
17.5°	1992.5	2015.7	2046.7	2085.3	2134.4	2173.0	2191.1	2196.1	2188.5	2170.5	2157.5
20°	2062.1	2082.8	2116.2	2162.7	2214.2	2222.0	2203.9	2180.7	2157.5	2126.6	2105.9
22.5°	2118.8	2147.2	2198.7	2252.9	2255.5	2211.6	2162.7	2124.0	2087.9	2051.8	2013.1
25°	2185.8	2224.6	2294.1	2314.8	2247.6	2165.3	2095.7	2039.0	1979.7	1920.3	1876.6
27.5°	2268.3	2325.1	2394.6	2335.4	2203.9	2087.9	1992.5	1907.6	1830.1	1747.7	1698.7
30°	2356.0	2443.6	2459.1	2304.4	2129.2	1979.7	1850.8	1722.0	1624.0	1549.1	1520.8
32.5°	2461.6	2575.1	2482.2	2250.3	2028.6	1832.7	1660.0	1505.4	1422.8	1376.5	1363.5
35°	2621.6	2714.3	2495.2	2193.7	1912.6	1657.5	1440.9	1317.2	1265.6	1234.7	1219.2
37.5°	2851.0	2848.3	2492.5	2124.0	1778.6	1466.8	1265.6	1177.9	1136.7	1110.9	1082.5
40°	3118.9	2951.4	2477.2	2023.5	1598.2	1283.7	1144.5	1061.9	1023.3	992.4	958.9
42.5°	3384.5	3021.0	2433.2	1874.0	1373.9	1152.3	1056.9	982.0	940.9	907.4	860.9
45°	3613.9	3049.3	2348.3	1667.8	1172.8	1049.1	1000.2	935.7	886.6	835.2	799.1
47.5°	3794.4	3044.3	2211.6	1425.4	1038.8	976.9	953.7	910.0	850.7	786.1	739.8
50°	3946.4	3005.5	2026.0	1211.5	948.6	912.5	904.8	891.8	796.4	742.4	714.1
52.5°	4085.6	2948.9	1827.6	1067.1	871.3	840.4	855.7	842.9	775.9	729.5	701.1
55°	4276.3	2910.1	1631.7	956.3	781.0	773.4	786.1	804.3	763.0	719.2	688.2
57.5°	4500.6	2930.8	1482.2	832.5	695.9	701.1	745.0	770.7	750.2	703.7	672.8
60°	4758.4	2992.7	1350.7	714.1	626.4	639.2	703.7	739.8	737.1	683.2	647.0
62.5°	5047.0	3057.1	1141.9	623.9	567.1	587.8	654.8	701.1	708.9	662.5	618.7
63°	5103.8	3062.3	1087.8	605.7	556.8	579.9	641.8	690.8	701.1	657.3	613.5
65°	5243.0	3015.9	876.3	556.8	515.5	541.3	603.2	647.0	667.6	629.0	592.9
67.5°	5126.9	2637.0	659.9	497.5	482.0	500.0	554.3	595.4	613.5	595.4	559.4
70°	4688.9	1917.8	515.5	443.4	446.0	458.9	500.0	538.8	559.4	554.3	520.7
72.5°	3776.3	1087.8	430.5	397.1	404.6	420.1	448.6	484.5	502.6	500.0	476.9
75°	2487.4	556.8	363.5	355.6	360.8	373.8	394.4	422.7	443.4	440.8	430.5
77.5°	1232.1	386.6	311.9	314.4	317.0	327.3	342.9	368.7	381.5	384.0	381.5
80°	507.8	301.7	268.1	270.7	273.3	281.0	291.3	314.4	322.2	327.3	329.9
82.5°	304.2	229.3	213.9	219.0	221.7	229.3	237.2	257.8	265.4	273.3	273.3
85°	201.1	159.8	154.7	159.8	165.0	170.0	172.7	185.6	198.4	208.8	213.9
87.5°	108.2	95.4	92.7	95.4	95.4	100.5	105.7	118.5	134.0	144.4	149.5
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):

	160°	165°	170°	175°	180°
0°	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1708.9	1711.6	1708.9	1711.6	1714.1
5°	1794.1	1799.2	1796.6	1796.6	1806.9
7.5°	1892.0	1902.3	1902.3	1907.6	1912.6
10°	1997.7	2008.0	2015.7	2015.7	2023.5
12.5°	2103.4	2108.5	2116.2	2116.2	2116.2
15°	2157.5	2154.9	2152.3	2149.7	2149.7
17.5°	2149.7	2139.5	2134.4	2129.2	2131.8
20°	2093.1	2075.1	2069.9	2062.1	2067.3
22.5°	1995.1	1969.4	1959.1	1946.2	1951.3
25°	1848.3	1817.2	1812.2	1796.6	1804.3
27.5°	1678.0	1662.7	1660.0	1657.5	1670.3
30°	1518.2	1523.3	1526.0	1531.2	1544.0
32.5°	1371.4	1381.7	1384.2	1386.9	1404.8
35°	1226.9	1214.1	1226.9	1221.9	1237.2
37.5°	1069.7	1059.5	1049.1	1036.3	1046.5
40°	938.3	920.3	889.3	873.8	876.3
42.5°	835.2	812.0	786.1	770.7	770.7
45°	768.1	739.8	716.6	706.2	706.2
47.5°	716.6	703.7	690.8	683.2	683.2
50°	695.9	680.5	672.8	667.6	667.6
52.5°	680.5	665.0	657.3	652.2	647.0
55°	667.6	644.4	636.7	634.2	634.2
57.5°	649.6	629.0	618.7	616.1	616.1
60°	621.2	605.7	595.4	592.9	592.9
62.5°	592.9	577.4	567.1	567.1	567.1
63°	587.8	569.6	561.9	561.9	561.9
65°	564.6	546.4	538.8	538.8	536.2
67.5°	533.6	515.5	510.3	510.3	505.2
70°	497.5	482.0	476.9	479.4	469.2
72.5°	461.4	446.0	438.3	438.3	428.0
75°	420.1	404.6	394.4	391.8	381.5
77.5°	373.8	360.8	350.6	340.3	335.1
80°	324.7	314.4	301.7	293.8	286.1
82.5°	273.3	262.9	255.2	265.4	226.8
85°	213.9	203.6	193.3	208.8	162.5
87.5°	157.3	152.2	141.8	123.7	108.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)