

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: P257969

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-7050**

Issue Date: 8/21/2018

Test Information

Test Method: LM-79-08
Report Number: P257969
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-AF72-130-D-U-T2U-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 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: 17724 lumens
Efficiency: N/A
Efficacy: 133.3 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

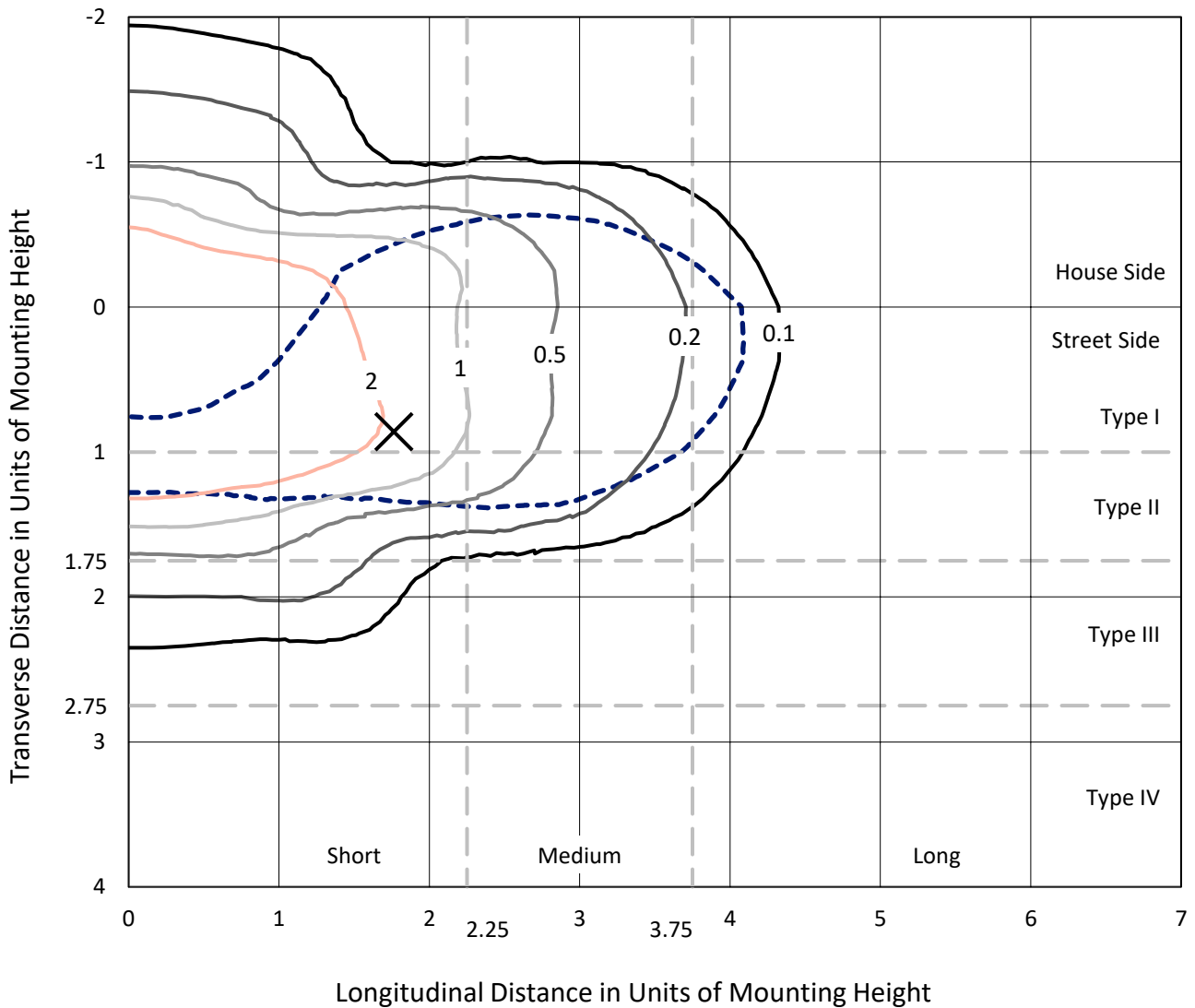
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

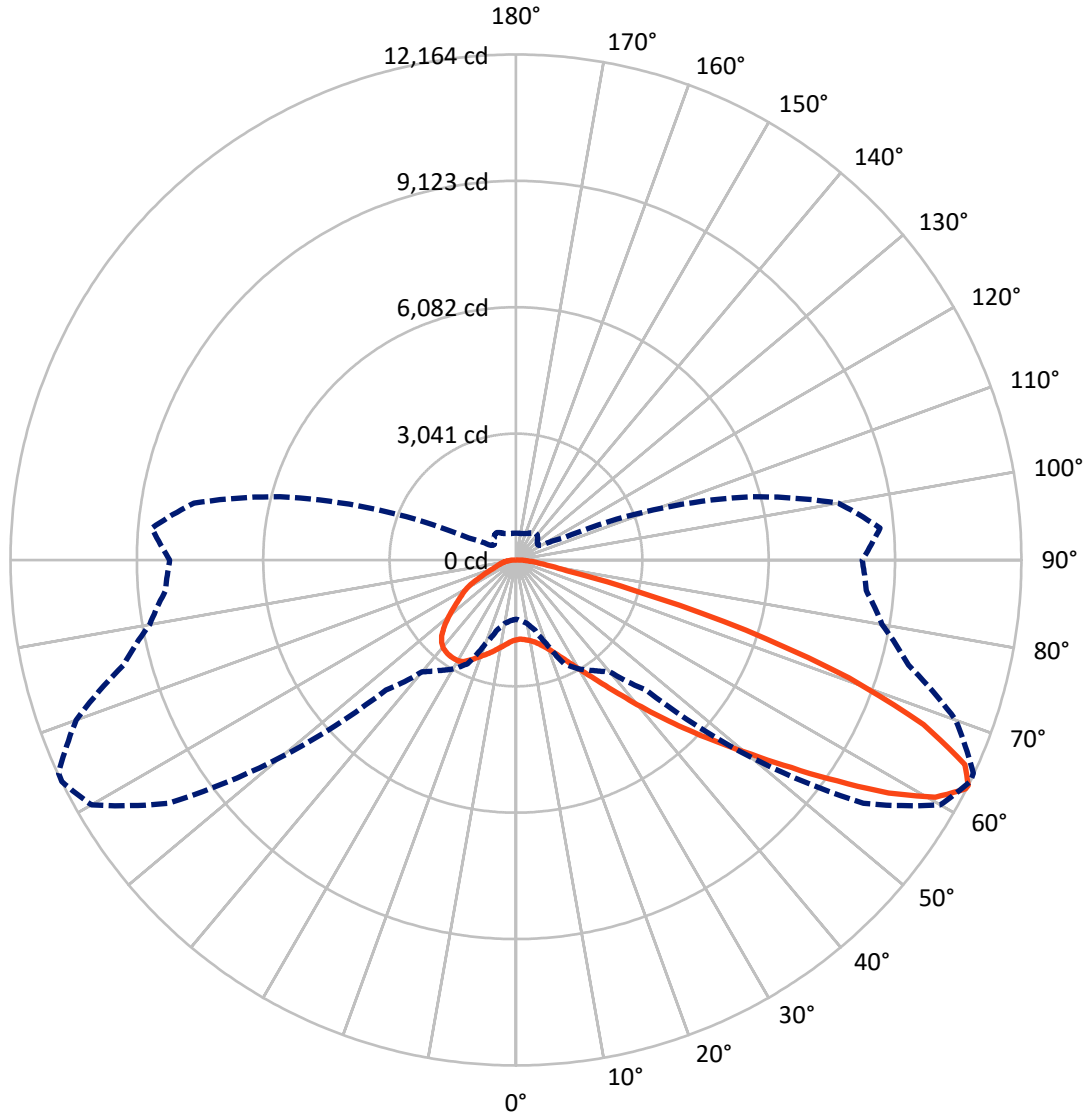
✕ Max cd
 - - - 1/2 Max cd



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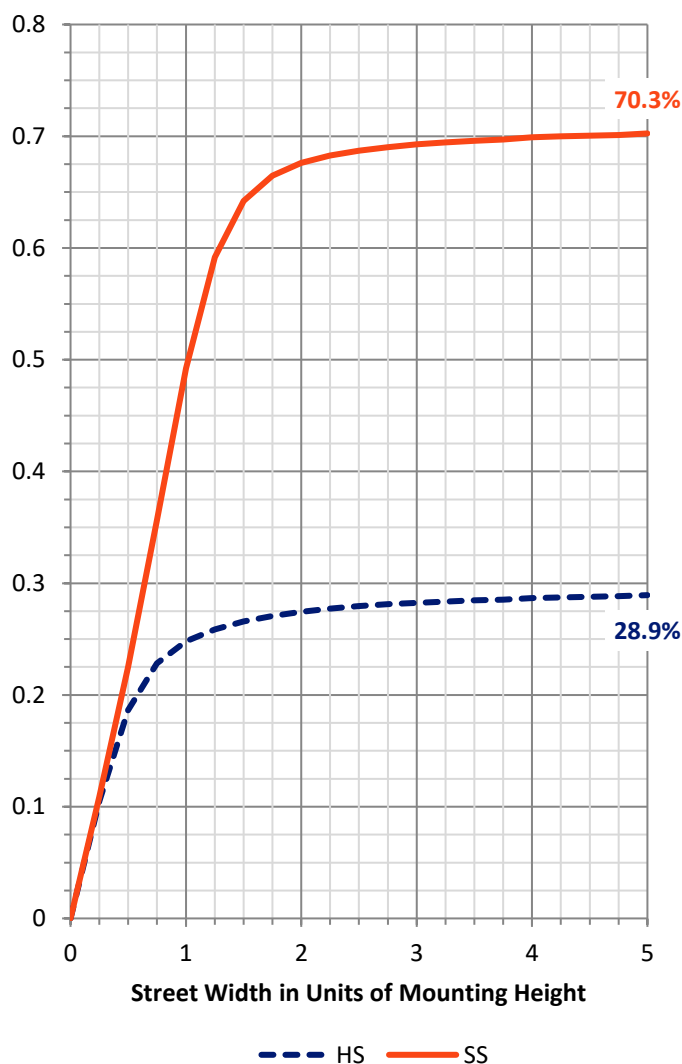
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5210.2	0.0	5210.2
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	12513.8	0.0	12513.8
	% Fixture	70.6	0.0	70.6
Total	Lumens	17724.0	0.0	17724.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.6	1.1
10°-20°	638.3	3.6
20°-30°	1198.2	6.8
30°-40°	2008.4	11.3
40°-50°	3369.6	19.0
50°-60°	4271.6	24.1
60°-70°	3768.2	21.3
70°-80°	1945.2	11.0
80°-90°	332.8	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°	17724.0	100.0
0°-180°	17724.0	100.0

Coefficient of Utilization

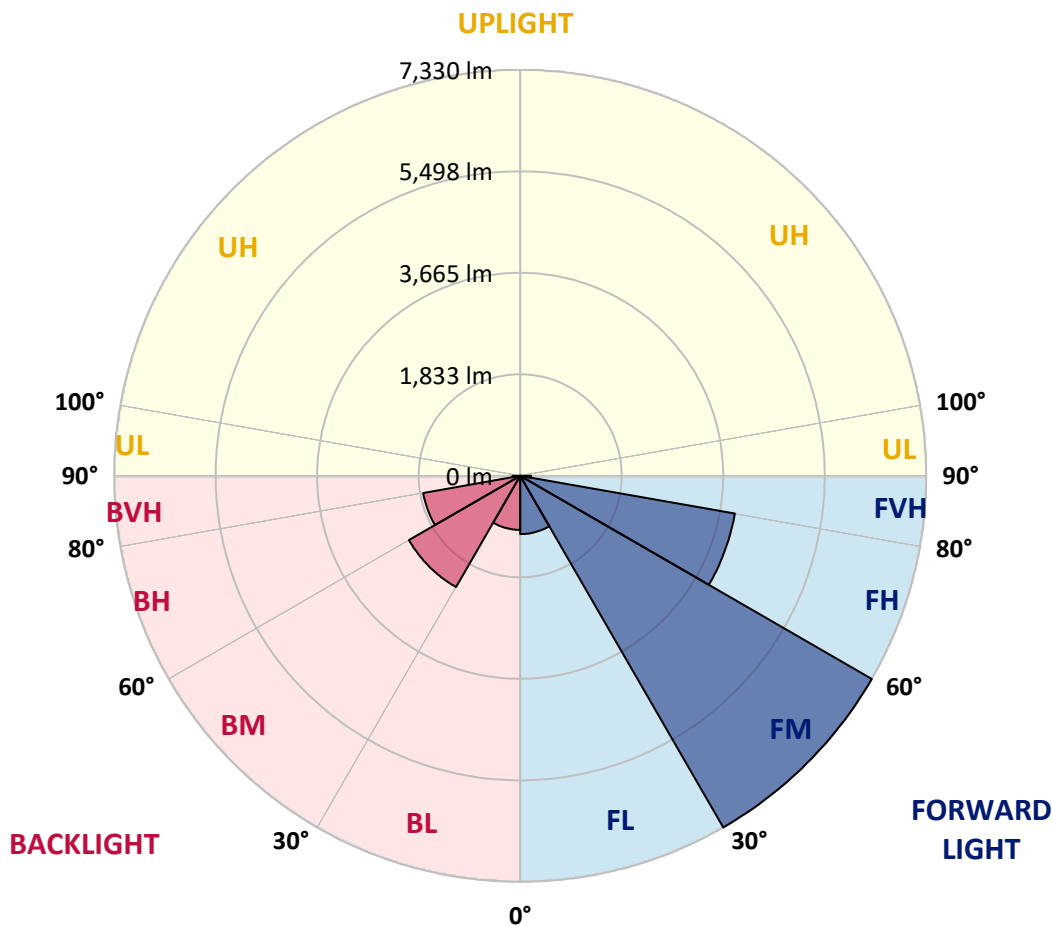


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.0	5.9			
FM (30°-60°)	7330.2	41.4			
FH (60°-80°)	3935.7	22.2			G2/5000
FVH (80°-90°)	195.9	1.1			G2/225
BL (0°-30°)	976.2	5.5	B2/1000		
BM (30°-60°)	2319.3	13.1	B2/2500		
BH (60°-80°)	1777.7	10.0	B3/2500		G3/2500
BVH (80°-90°)	137.0	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°	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1907.6	1904.7	1904.7	1904.7	1904.7	1901.7	1904.7	1910.6	1907.6	1904.7	1910.6
5°	1913.6	1910.6	1910.6	1910.6	1913.6	1910.6	1913.6	1922.5	1916.5	1916.5	1922.5
7.5°	1928.4	1925.4	1928.4	1925.4	1925.4	1925.4	1928.4	1937.3	1934.3	1937.3	1946.2
10°	1946.2	1946.2	1946.2	1946.2	1946.2	1946.2	1952.1	1958.1	1961.0	1964.0	1975.9
12.5°	1999.6	1999.6	1999.6	1996.6	1996.6	1987.7	1999.6	2005.5	2011.5	2017.4	2026.3
15°	2112.3	2112.3	2109.4	2097.5	2097.5	2079.7	2082.7	2085.6	2085.6	2091.6	2097.5
17.5°	2260.7	2257.7	2251.8	2242.9	2231.0	2210.2	2204.3	2198.4	2189.5	2186.5	2186.5
20°	2468.4	2465.4	2453.5	2429.8	2415.0	2382.3	2358.6	2334.8	2325.9	2311.1	2308.1
22.5°	2765.0	2765.0	2741.3	2705.7	2693.8	2625.6	2557.4	2506.9	2489.1	2468.4	2468.4
25°	3124.0	3121.0	3088.4	3046.9	2996.4	2925.2	2842.2	2773.9	2729.4	2682.0	2664.2
27.5°	3554.2	3545.3	3500.8	3450.4	3355.4	3266.4	3168.5	3097.3	3020.2	2960.8	2907.4
30°	4058.5	4049.6	3972.5	3877.6	3779.7	3690.7	3548.3	3462.2	3340.6	3269.4	3210.0
32.5°	4643.0	4634.1	4494.7	4402.7	4298.9	4189.1	4020.0	3883.5	3729.2	3628.4	3545.3
35°	5387.7	5352.1	5153.3	5025.7	4862.5	4752.8	4574.8	4390.8	4209.9	4067.4	3945.8
37.5°	6191.7	6150.1	5975.1	5785.2	5625.0	5491.5	5239.3	5007.9	4794.3	4598.5	4447.2
40°	7031.3	6921.5	6734.6	6595.1	6485.4	6357.8	6093.8	5850.5	5515.2	5295.7	5067.2
42.5°	7612.7	7505.9	7375.4	7283.4	7230.0	7132.1	6983.8	6773.1	6473.5	6479.4	5877.2
45°	7995.5	7838.2	7749.2	7755.1	7775.9	7775.9	7749.2	7716.6	7586.0	7675.0	7170.7
47.5°	7859.0	7755.1	7698.8	7817.4	7965.8	8114.1	8286.2	8473.1	8686.7	8938.9	8318.8
50°	7058.0	7096.5	7123.2	7375.4	7692.8	8031.1	8425.6	8935.9	9532.2	9647.9	9348.3
52.5°	5779.3	5862.3	5951.3	6337.0	6755.3	7339.8	8031.1	8873.6	9674.6	10146.4	10116.7
55°	4488.7	4592.6	4782.4	5070.2	5402.5	5954.3	6808.7	8108.2	9357.2	10107.8	10564.7
57.5°	3195.2	3346.5	3595.7	3996.2	4290.0	4601.5	5233.4	6675.2	8042.9	9440.3	10490.5
60°	2124.2	2195.4	2358.6	2857.0	3352.5	3678.8	4126.8	4648.9	5767.4	7692.8	9725.1
62.5°	1507.1	1554.6	1655.5	1880.9	2328.9	2919.3	3189.3	3429.6	3788.6	4948.6	7808.5
63°	1424.1	1465.6	1548.7	1738.5	2142.0	2753.2	3029.1	3248.6	3509.7	4426.4	7387.3
65°	1180.8	1198.6	1243.1	1335.0	1551.6	2058.9	2509.9	2643.4	2687.9	2845.1	4628.2
67.5°	996.8	1008.7	1023.5	1050.2	1136.3	1370.6	1872.0	2041.1	1990.7	1883.9	2287.4
70°	866.3	875.2	898.9	931.6	961.2	1020.6	1287.6	1539.8	1483.4	1338.0	1400.3
72.5°	691.3	706.1	732.8	789.2	848.5	925.6	990.9	1148.1	1112.5	973.1	987.9
75°	545.9	554.8	578.5	620.1	676.4	765.4	893.0	946.4	848.5	718.0	718.0
77.5°	433.1	442.0	462.8	495.5	531.1	593.4	682.4	821.8	762.5	540.0	537.0
80°	326.3	335.2	356.0	385.7	421.3	465.8	519.2	581.5	700.2	504.4	403.5
82.5°	240.3	243.3	278.9	299.6	311.5	347.1	391.6	427.2	480.6	465.8	359.0
85°	181.0	178.0	201.7	216.6	219.5	228.4	255.1	290.7	314.5	302.6	278.9
87.5°	100.9	89.0	103.8	118.7	118.7	121.6	127.6	148.3	169.1	163.2	148.3
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):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1910.6	1910.6	1907.6	1907.6	1910.6	1910.6	1907.6	1916.5	1922.5	1922.5	1925.4
5°	1919.5	1922.5	1919.5	1919.5	1922.5	1922.5	1925.4	1934.3	1943.2	1949.2	1958.1
7.5°	1946.2	1949.2	1946.2	1946.2	1949.2	1952.1	1958.1	1969.9	1975.9	1987.7	2002.6
10°	1975.9	1978.8	1975.9	1978.8	1981.8	1984.8	1993.7	2002.6	2011.5	2023.3	2047.1
12.5°	2029.3	2032.2	2026.3	2029.3	2038.2	2038.2	2044.1	2050.0	2064.9	2079.7	2103.4
15°	2103.4	2103.4	2097.5	2100.5	2109.4	2109.4	2112.3	2118.3	2136.1	2153.9	2177.6
17.5°	2189.5	2195.4	2192.4	2195.4	2201.3	2204.3	2204.3	2210.2	2222.1	2234.0	2257.7
20°	2305.2	2308.1	2302.2	2308.1	2314.1	2308.1	2302.2	2299.2	2305.2	2311.1	2337.8
22.5°	2462.4	2459.5	2444.6	2444.6	2444.6	2432.8	2417.9	2400.1	2400.1	2391.2	2412.0
25°	2649.3	2640.4	2619.7	2622.6	2601.9	2584.1	2557.4	2530.7	2506.9	2498.0	2501.0
27.5°	2868.9	2851.1	2830.3	2824.4	2803.6	2771.0	2726.5	2676.0	2637.5	2607.8	2601.9
30°	3144.8	3106.2	3070.6	3064.7	3032.0	2978.6	2907.4	2839.2	2773.9	2723.5	2705.7
32.5°	3471.1	3411.8	3355.4	3349.5	3296.1	3224.9	3138.8	3043.9	2949.0	2868.9	2830.3
35°	3853.8	3764.8	3711.4	3696.6	3619.5	3530.5	3435.5	3313.9	3180.4	3067.6	2996.4
37.5°	4319.6	4227.7	4135.7	4138.6	4031.8	3928.0	3800.4	3652.1	3483.0	3325.8	3224.9
40°	4895.2	4764.6	4646.0	4619.3	4527.3	4381.9	4242.5	4070.4	3862.7	3655.1	3509.7
42.5°	5592.4	5378.8	5215.6	5191.9	5070.2	4892.2	4723.1	4494.7	4284.0	4031.8	3856.8
45°	6384.5	6043.3	5847.5	5811.9	5616.1	5435.1	5230.4	4987.1	4729.0	4444.2	4236.6
47.5°	7369.5	6882.9	6550.6	6491.3	6221.3	5984.0	5770.4	5500.4	5191.9	4874.4	4646.0
50°	8517.6	7799.6	7351.7	7259.7	6897.7	6618.9	6345.9	6007.7	5678.4	5346.1	5082.1
52.5°	9668.7	8897.4	8301.0	8188.3	7654.3	7280.5	6921.5	6583.3	6194.6	5865.3	5565.7
55°	10594.3	10081.1	9389.8	9232.6	8467.2	7959.9	7488.1	7102.5	6716.8	6455.7	6102.7
57.5°	11152.1	11125.4	10579.5	10362.9	9315.7	8565.1	8040.0	7600.9	7227.1	7117.3	6648.5
60°	11137.3	11828.5	11594.1	11431.0	10173.1	9185.1	8502.8	8028.1	7719.5	7844.1	7197.4
62.5°	10457.9	11858.2	12140.0	12095.5	11086.8	9683.5	8882.5	8393.0	8229.8	8600.7	7767.0
63°	10211.6	11790.0	12163.8	12146.0	11261.9	9778.5	8947.8	8464.2	8330.7	8793.5	7870.8
65°	8630.3	11193.6	11876.0	11956.1	11638.6	10104.8	9099.1	8645.2	8630.3	9223.7	8117.1
67.5°	5260.1	9458.1	10579.5	10733.8	11107.6	10208.7	9013.1	8582.9	8796.5	9286.0	8042.9
70°	2248.8	6242.1	8502.8	8752.0	9665.7	9692.4	8766.8	8327.7	8757.9	8799.4	7514.8
72.5°	1332.1	2943.0	5788.2	6331.1	7648.3	8339.6	8203.1	7882.7	8250.6	7728.4	6399.3
75°	943.4	1376.6	2940.1	3518.6	5325.4	6366.7	6891.8	7040.2	7025.3	6129.4	4803.2
77.5°	676.4	884.1	1240.1	1462.6	2972.7	4088.2	4729.0	5162.2	5022.7	4103.0	2960.8
80°	471.7	611.2	759.5	807.0	1379.5	2100.5	2492.1	2682.0	2598.9	2050.0	1326.1
82.5°	341.2	400.5	489.5	519.2	694.2	970.1	1154.1	1017.6	976.1	756.5	572.6
85°	264.0	258.1	305.6	317.4	406.4	507.3	519.2	403.5	353.0	314.5	320.4
87.5°	186.9	160.2	163.2	169.1	210.6	270.0	264.0	166.1	142.4	151.3	172.1
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1931.4	1934.3	1940.3	1943.2	1949.2	1949.2	1955.1	1958.1	1964.0	1969.9	1972.9
5°	1967.0	1975.9	1987.7	1993.7	2005.5	2014.4	2026.3	2032.2	2044.1	2053.0	2064.9
7.5°	2020.4	2035.2	2050.0	2067.8	2085.6	2100.5	2112.3	2127.2	2147.9	2162.8	2171.7
10°	2070.8	2091.6	2118.3	2139.0	2165.7	2186.5	2204.3	2231.0	2254.7	2275.5	2287.4
12.5°	2136.1	2162.8	2189.5	2222.1	2257.7	2284.4	2311.1	2346.7	2379.4	2403.1	2415.0
15°	2213.2	2245.8	2275.5	2314.1	2355.6	2391.2	2429.8	2468.4	2492.1	2492.1	2486.2
17.5°	2293.3	2320.0	2355.6	2400.1	2456.5	2501.0	2521.8	2527.7	2518.8	2498.0	2483.2
20°	2373.4	2397.2	2435.7	2489.1	2548.5	2557.4	2536.6	2509.9	2483.2	2447.6	2423.9
22.5°	2438.7	2471.3	2530.7	2593.0	2595.9	2545.5	2489.1	2444.6	2403.1	2361.6	2317.0
25°	2515.8	2560.3	2640.4	2664.2	2587.0	2492.1	2412.0	2346.7	2278.5	2210.2	2159.8
27.5°	2610.8	2676.0	2756.1	2687.9	2536.6	2403.1	2293.3	2195.4	2106.4	2011.5	1955.1
30°	2711.6	2812.5	2830.3	2652.3	2450.6	2278.5	2130.1	1981.8	1869.1	1783.0	1750.4
32.5°	2833.3	2963.8	2857.0	2590.0	2334.8	2109.4	1910.6	1732.6	1637.7	1584.3	1569.4
35°	3017.2	3124.0	2871.8	2524.7	2201.3	1907.6	1658.4	1516.0	1456.7	1421.1	1403.3
37.5°	3281.3	3278.3	2868.9	2444.6	2047.1	1688.1	1456.7	1355.8	1308.3	1278.7	1246.0
40°	3589.8	3397.0	2851.1	2328.9	1839.4	1477.5	1317.2	1222.3	1177.8	1142.2	1103.6
42.5°	3895.4	3477.1	2800.6	2156.8	1581.3	1326.1	1216.4	1130.3	1082.9	1044.3	990.9
45°	4159.4	3509.7	2702.7	1919.5	1349.9	1207.5	1151.1	1076.9	1020.6	961.2	919.7
47.5°	4367.1	3503.8	2545.5	1640.6	1195.6	1124.4	1097.7	1047.3	979.0	904.9	851.5
50°	4542.1	3459.3	2331.9	1394.4	1091.8	1050.2	1041.3	1026.5	916.7	854.4	821.8
52.5°	4702.3	3394.0	2103.4	1228.2	1002.8	967.2	985.0	970.1	893.0	839.6	807.0
55°	4921.9	3349.5	1878.0	1100.7	898.9	890.0	904.9	925.6	878.2	827.7	792.1
57.5°	5180.0	3373.2	1705.9	958.3	801.0	807.0	857.4	887.1	863.3	809.9	774.3
60°	5476.7	3444.4	1554.6	821.8	720.9	735.8	809.9	851.5	848.5	786.2	744.7
62.5°	5808.9	3518.6	1314.3	718.0	652.7	676.4	753.6	807.0	815.9	762.5	712.0
63°	5874.2	3524.5	1252.0	697.2	640.8	667.5	738.7	795.1	807.0	756.5	706.1
65°	6034.4	3471.1	1008.7	640.8	593.4	623.0	694.2	744.7	768.4	723.9	682.4
67.5°	5900.9	3035.0	759.5	572.6	554.8	575.6	637.9	685.3	706.1	685.3	643.8
70°	5396.6	2207.3	593.4	510.3	513.3	528.1	575.6	620.1	643.8	637.9	599.3
72.5°	4346.3	1252.0	495.5	456.9	465.8	483.6	516.2	557.8	578.5	575.6	548.9
75°	2862.9	640.8	418.3	409.4	415.3	430.2	453.9	486.6	510.3	507.3	495.5
77.5°	1418.1	445.0	359.0	361.9	364.9	376.8	394.6	424.2	439.1	442.0	439.1
80°	584.5	347.1	308.5	311.5	314.5	323.4	335.2	361.9	370.8	376.8	379.7
82.5°	350.1	264.0	246.2	252.2	255.1	264.0	272.9	296.7	305.6	314.5	314.5
85°	231.4	183.9	178.0	183.9	189.9	195.8	198.8	213.6	228.4	240.3	246.2
87.5°	124.6	109.8	106.8	109.8	109.8	115.7	121.6	136.5	154.3	166.1	172.1
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):

	160°	165°	170°	175°	180°
0°	1919.5	1919.5	1919.5	1919.5	1919.5
2.5°	1967.0	1969.9	1967.0	1969.9	1972.9
5°	2064.9	2070.8	2067.8	2067.8	2079.7
7.5°	2177.6	2189.5	2189.5	2195.4	2201.3
10°	2299.2	2311.1	2320.0	2320.0	2328.9
12.5°	2420.9	2426.8	2435.7	2435.7	2435.7
15°	2483.2	2480.2	2477.3	2474.3	2474.3
17.5°	2474.3	2462.4	2456.5	2450.6	2453.5
20°	2409.0	2388.3	2382.3	2373.4	2379.4
22.5°	2296.3	2266.6	2254.7	2239.9	2245.8
25°	2127.2	2091.6	2085.6	2067.8	2076.7
27.5°	1931.4	1913.6	1910.6	1907.6	1922.5
30°	1747.4	1753.4	1756.3	1762.3	1777.1
32.5°	1578.3	1590.2	1593.2	1596.1	1616.9
35°	1412.2	1397.3	1412.2	1406.3	1424.1
37.5°	1231.2	1219.3	1207.5	1192.6	1204.5
40°	1079.9	1059.1	1023.5	1005.7	1008.7
42.5°	961.2	934.5	904.9	887.1	887.1
45°	884.1	851.5	824.8	812.9	812.9
47.5°	824.8	809.9	795.1	786.2	786.2
50°	801.0	783.2	774.3	768.4	768.4
52.5°	783.2	765.4	756.5	750.6	744.7
55°	768.4	741.7	732.8	729.8	729.8
57.5°	747.6	723.9	712.0	709.1	709.1
60°	715.0	697.2	685.3	682.4	682.4
62.5°	682.4	664.6	652.7	652.7	652.7
63°	676.4	655.7	646.8	646.8	646.8
65°	649.7	629.0	620.1	620.1	617.1
67.5°	614.1	593.4	587.4	587.4	581.5
70°	572.6	554.8	548.9	551.8	540.0
72.5°	531.1	513.3	504.4	504.4	492.5
75°	483.6	465.8	453.9	450.9	439.1
77.5°	430.2	415.3	403.5	391.6	385.7
80°	373.8	361.9	347.1	338.2	329.3
82.5°	314.5	302.6	293.7	305.6	261.1
85°	246.2	234.4	222.5	240.3	186.9
87.5°	181.0	175.0	163.2	142.4	124.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)