

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: P257930

Luminaire Tested: **ARCH-L-AF72-140-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257930
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-AF72-140-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 620mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18238.6 lumens
Efficiency: N/A
Efficacy: 127.5 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

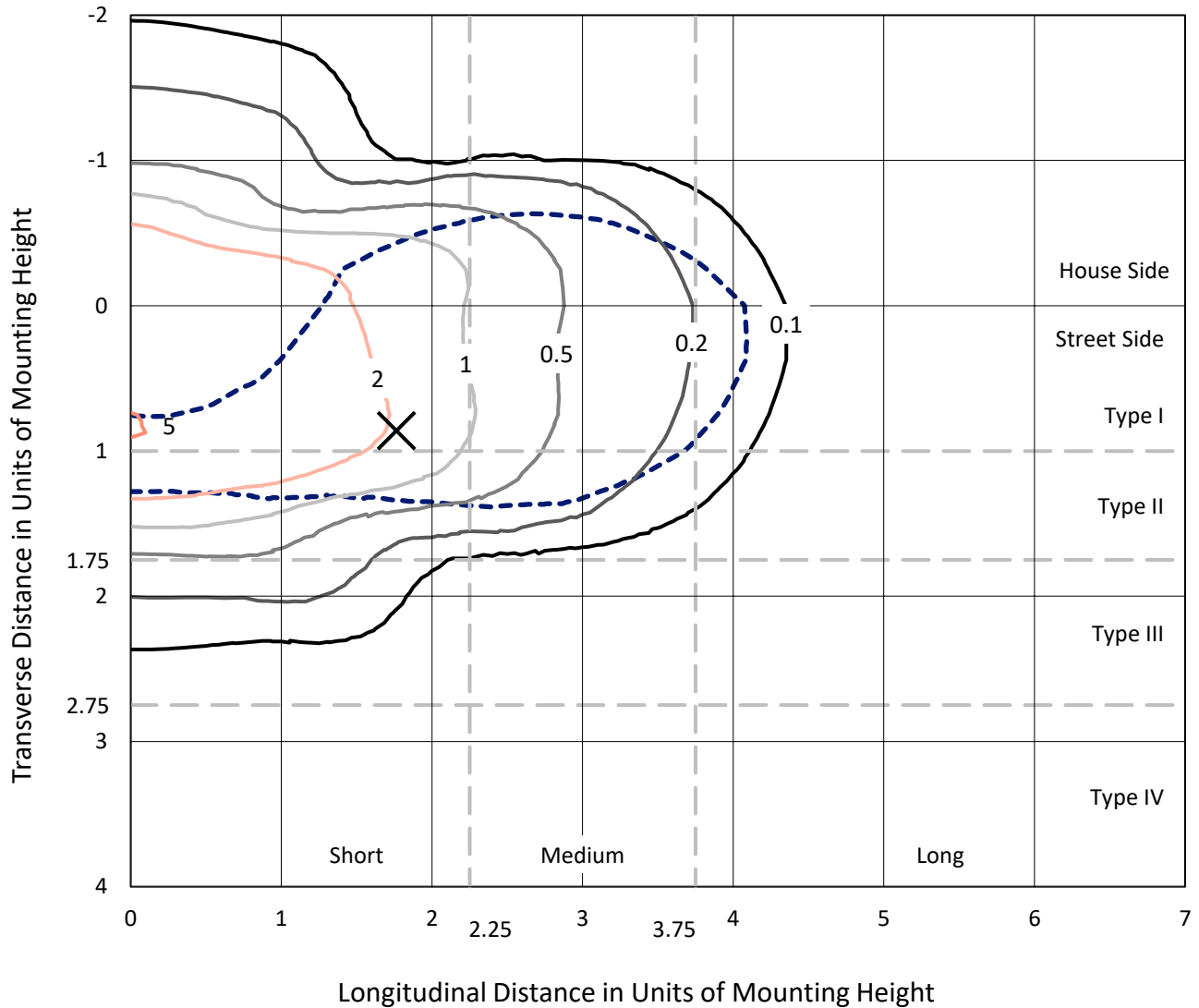
Input Watts (W): 143
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

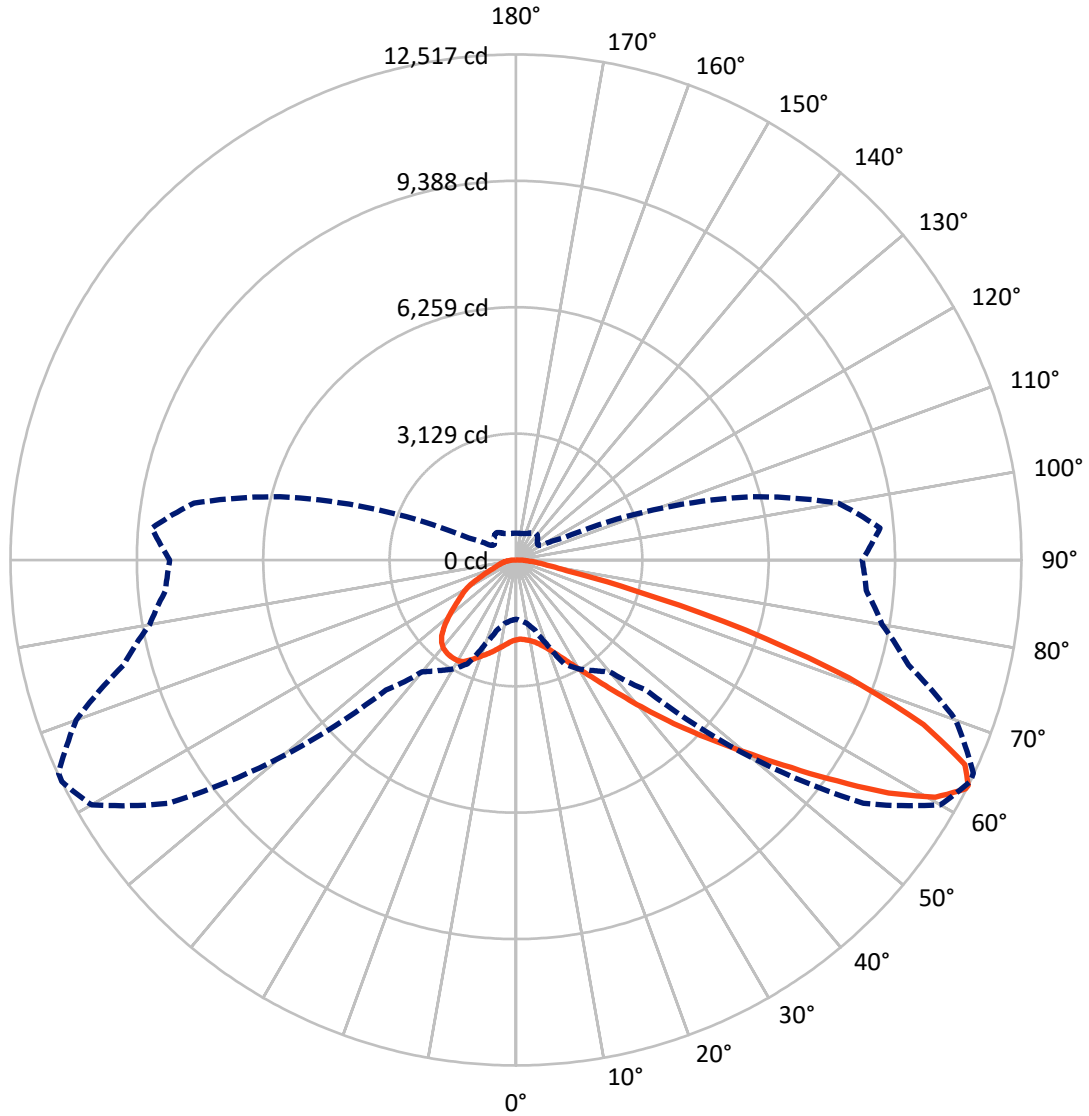
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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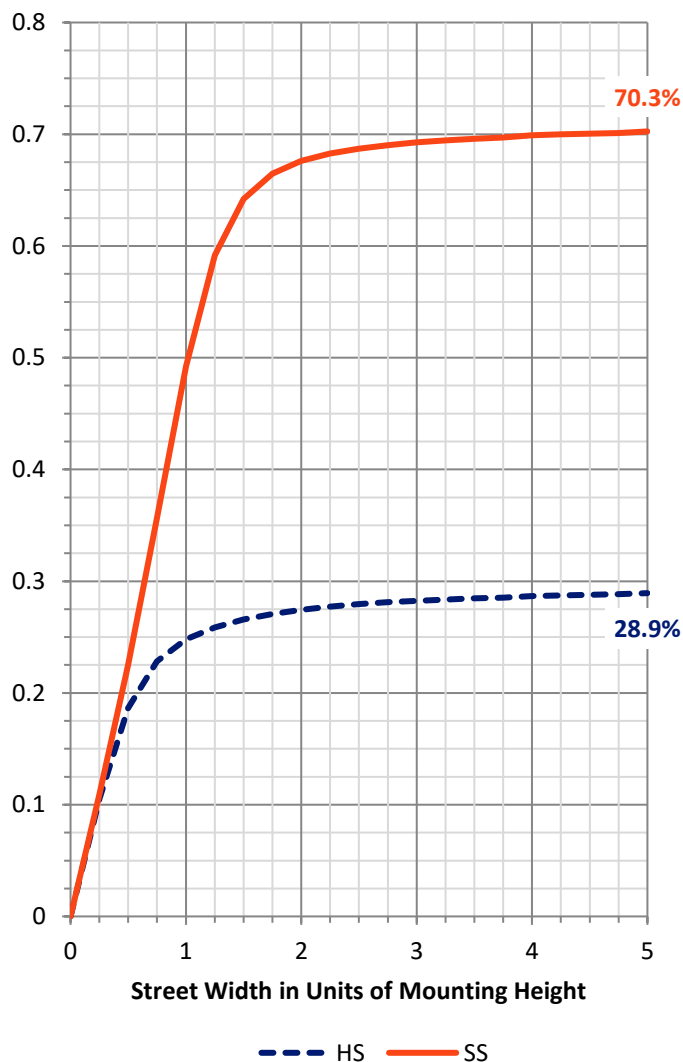
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5361.5	0.0	5361.5
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	12877.1	0.0	12877.1
	% Fixture	70.6	0.0	70.6
Total	Lumens	18238.6	0.0	18238.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.2	1.1
10°-20°	656.9	3.6
20°-30°	1233.0	6.8
30°-40°	2066.7	11.3
40°-50°	3467.4	19.0
50°-60°	4395.6	24.1
60°-70°	3877.6	21.3
70°-80°	2001.7	11.0
80°-90°	342.5	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°	18238.6	100.0
0°-180°	18238.6	100.0

Coefficient of Utilization



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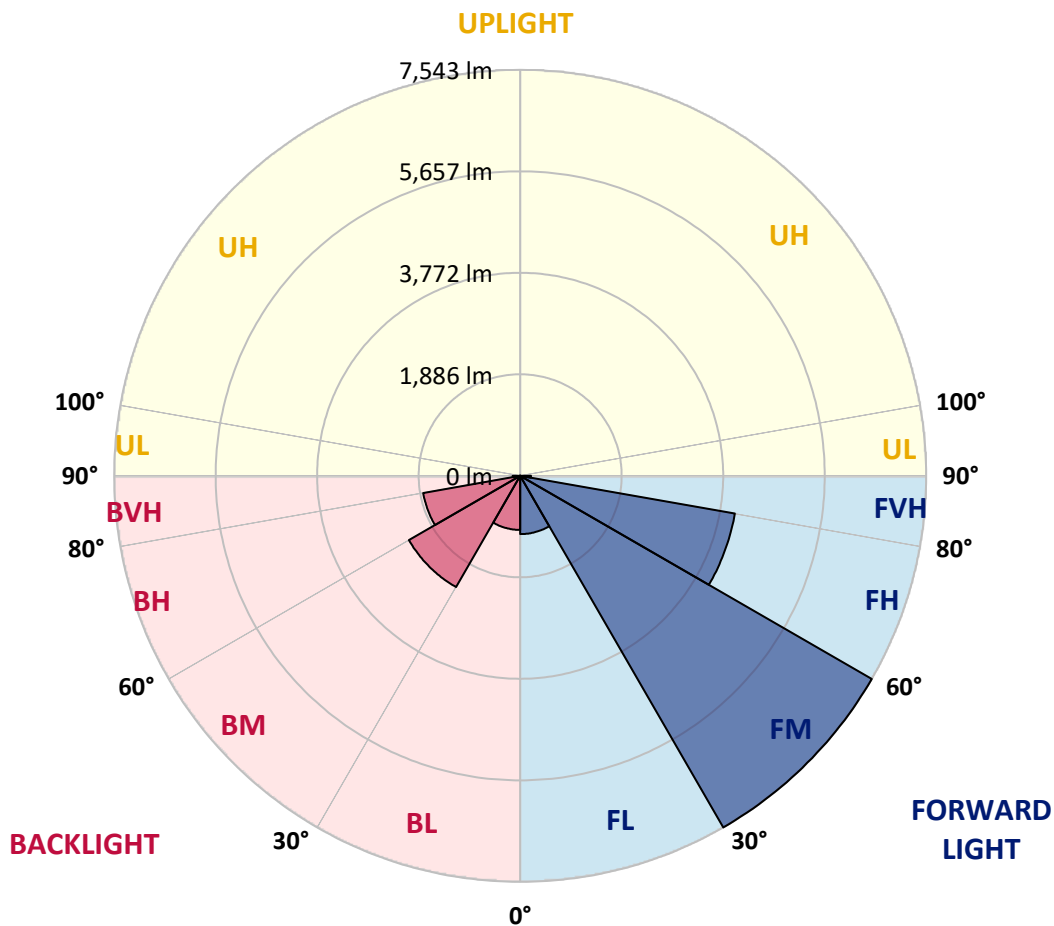
CATALOG NUMBER: ARCH-L-AF72-140-D-U-T2U-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.5	5.9			
FM (30°-60°)	7543.0	41.4			
FH (60°-80°)	4050.0	22.2			G2/5000
FVH (80°-90°)	201.6	1.1			G2/225
BL (0°-30°)	1004.6	5.5	B3/2500		
BM (30°-60°)	2386.7	13.1	B2/2500		
BH (60°-80°)	1829.3	10.0	B3/2500		G3/2500
BVH (80°-90°)	140.9	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°	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1963.1	1960.0	1960.0	1960.0	1960.0	1957.0	1960.0	1966.1	1963.1	1960.0	1966.1
5°	1969.2	1966.1	1966.1	1966.1	1969.2	1966.1	1969.2	1978.2	1972.2	1972.2	1978.2
7.5°	1984.3	1981.3	1984.3	1981.3	1981.3	1981.3	1984.3	1993.6	1990.4	1993.6	2002.7
10°	2002.7	2002.7	2002.7	2002.7	2002.7	2002.7	2008.8	2015.0	2018.0	2021.1	2033.2
12.5°	2057.7	2057.7	2057.7	2054.6	2054.6	2045.5	2057.7	2063.8	2069.9	2076.0	2085.1
15°	2173.7	2173.7	2170.7	2158.4	2158.4	2140.1	2143.1	2146.2	2146.2	2152.3	2158.4
17.5°	2326.3	2323.3	2317.2	2308.0	2295.7	2274.4	2268.3	2262.2	2253.0	2249.9	2249.9
20°	2540.1	2537.0	2524.8	2500.3	2485.1	2451.4	2427.0	2402.6	2393.5	2378.2	2375.2
22.5°	2845.3	2845.3	2820.8	2784.3	2772.0	2701.9	2631.6	2579.7	2561.4	2540.1	2540.1
25°	3214.7	3211.6	3178.2	3135.3	3083.4	3010.2	2924.7	2854.5	2808.7	2759.9	2741.6
27.5°	3657.4	3648.2	3602.5	3550.6	3452.8	3361.3	3260.6	3187.2	3107.9	3046.8	2991.8
30°	4176.4	4167.2	4087.8	3990.1	3889.4	3797.9	3651.3	3562.7	3437.7	3364.3	3303.2
32.5°	4777.8	4768.6	4625.2	4530.6	4423.7	4310.8	4136.7	3996.2	3837.5	3733.7	3648.2
35°	5544.2	5507.4	5302.9	5171.7	5003.7	4890.8	4707.7	4518.3	4332.1	4185.5	4060.4
37.5°	6371.5	6328.8	6148.6	5953.2	5788.3	5651.0	5391.5	5153.3	4933.5	4732.0	4576.4
40°	7235.3	7122.5	6930.1	6786.6	6673.7	6542.5	6270.7	6020.4	5675.4	5449.5	5214.4
42.5°	7833.8	7723.9	7589.5	7494.9	7440.0	7339.2	7186.5	6969.7	6661.4	6667.5	6047.8
45°	8227.7	8065.8	7974.2	7980.3	8001.7	8001.7	7974.2	7940.6	7806.3	7898.0	7379.0
47.5°	8087.2	7980.3	7922.3	8044.4	8197.0	8349.7	8526.8	8719.1	8938.9	9198.4	8560.4
50°	7262.9	7302.6	7330.1	7589.5	7916.3	8264.3	8670.3	9195.4	9809.1	9928.1	9619.7
52.5°	5947.1	6032.5	6124.2	6521.0	6951.5	7552.9	8264.3	9131.3	9955.6	10441.1	10410.4
55°	4619.1	4725.9	4921.2	5217.4	5559.3	6127.3	7006.5	8343.6	9628.9	10401.3	10871.4
57.5°	3287.9	3443.8	3700.2	4112.3	4414.5	4735.1	5385.4	6869.0	8276.5	9714.4	10795.2
60°	2185.8	2259.2	2427.0	2939.9	3449.8	3785.7	4246.6	4783.9	5934.9	7916.3	10007.5
62.5°	1550.9	1599.8	1703.6	1935.5	2396.5	3004.1	3281.9	3529.2	3898.6	5092.2	8035.3
63°	1465.3	1508.1	1593.6	1789.0	2204.2	2833.1	3117.0	3342.9	3611.6	4554.9	7601.7
65°	1215.1	1233.4	1279.2	1373.8	1596.8	2118.7	2582.8	2720.1	2765.9	2927.7	4762.5
67.5°	1025.7	1038.0	1053.3	1080.7	1169.3	1410.4	1926.4	2100.4	2048.5	1938.6	2353.8
70°	891.4	900.7	925.0	958.6	989.2	1050.2	1325.0	1584.5	1526.5	1376.8	1441.0
72.5°	711.3	726.6	754.1	812.2	873.1	952.5	1019.7	1181.5	1144.8	1001.4	1016.6
75°	561.7	570.9	595.4	638.1	696.1	787.6	919.0	973.8	873.1	738.8	738.8
77.5°	445.8	454.8	476.3	509.8	546.6	610.5	702.2	845.6	784.6	555.6	552.6
80°	335.9	344.9	366.3	396.8	433.5	479.3	534.3	598.4	720.4	519.0	415.1
82.5°	247.3	250.3	287.1	308.3	320.5	357.2	402.9	439.7	494.6	479.3	369.4
85°	186.2	183.2	207.6	222.9	225.9	235.1	262.6	299.2	323.6	311.4	287.1
87.5°	103.8	91.6	106.8	122.2	122.2	125.2	131.3	152.6	174.0	167.9	152.6
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°	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1966.1	1966.1	1963.1	1963.1	1966.1	1966.1	1963.1	1972.2	1978.2	1978.2	1981.3
5°	1975.2	1978.2	1975.2	1975.2	1978.2	1978.2	1981.3	1990.4	1999.7	2005.8	2015.0
7.5°	2002.7	2005.8	2002.7	2002.7	2005.8	2008.8	2015.0	2027.1	2033.2	2045.5	2060.7
10°	2033.2	2036.3	2033.2	2036.3	2039.4	2042.4	2051.6	2060.7	2069.9	2082.1	2106.5
12.5°	2088.2	2091.2	2085.1	2088.2	2097.3	2097.3	2103.5	2109.6	2124.9	2140.1	2164.5
15°	2164.5	2164.5	2158.4	2161.4	2170.7	2170.7	2173.7	2179.8	2198.1	2216.5	2240.8
17.5°	2253.0	2259.2	2256.1	2259.2	2265.3	2268.3	2268.3	2274.4	2286.7	2298.9	2323.3
20°	2372.1	2375.2	2369.1	2375.2	2381.3	2375.2	2369.1	2366.0	2372.1	2378.2	2405.7
22.5°	2533.9	2530.9	2515.5	2515.5	2515.5	2503.3	2488.2	2469.8	2469.8	2460.6	2482.1
25°	2726.2	2717.1	2695.8	2698.8	2677.4	2659.1	2631.6	2604.0	2579.7	2570.6	2573.6
27.5°	2952.1	2933.8	2912.6	2906.4	2885.0	2851.4	2805.7	2753.8	2714.0	2683.5	2677.4
30°	3236.0	3196.4	3159.8	3153.7	3120.1	3065.2	2991.8	2921.6	2854.5	2802.6	2784.3
32.5°	3571.9	3510.8	3452.8	3446.7	3391.9	3318.5	3230.0	3132.3	3034.5	2952.1	2912.6
35°	3965.8	3874.2	3819.1	3804.0	3724.5	3633.0	3535.3	3410.1	3272.8	3156.7	3083.4
37.5°	4445.0	4350.3	4255.7	4258.8	4148.9	4042.0	3910.8	3758.2	3584.1	3422.3	3318.5
40°	5037.3	4903.0	4780.8	4753.5	4658.7	4509.1	4365.7	4188.6	3974.9	3761.1	3611.6
42.5°	5754.8	5535.0	5367.1	5342.6	5217.4	5034.2	4860.3	4625.2	4408.4	4148.9	3968.9
45°	6569.9	6218.8	6017.4	5980.7	5779.2	5593.0	5382.3	5131.9	4866.3	4573.3	4359.6
47.5°	7583.4	7082.7	6740.9	6679.8	6401.9	6157.8	5937.9	5660.0	5342.6	5016.0	4780.8
50°	8764.9	8026.0	7565.1	7470.5	7098.0	6811.1	6530.2	6182.1	5843.3	5501.3	5229.7
52.5°	9949.4	9155.7	8542.1	8426.1	7876.5	7491.9	7122.5	6774.4	6374.5	6035.6	5727.3
55°	10902.0	10373.8	9662.5	9500.6	8713.0	8190.9	7705.6	7308.7	6911.8	6643.2	6279.9
57.5°	11475.9	11448.4	10886.7	10663.8	9586.2	8813.7	8273.4	7821.6	7436.9	7323.9	6841.6
60°	11460.6	12172.0	11930.8	11762.9	10468.4	9451.8	8749.7	8261.2	7943.7	8072.0	7406.3
62.5°	10761.5	12202.5	12492.6	12446.7	11408.8	9964.8	9140.4	8636.7	8468.8	8850.4	7992.6
63°	10508.1	12132.2	12517.0	12498.6	11588.9	10062.4	9207.6	8709.9	8572.6	9048.9	8099.4
65°	8880.9	11518.6	12220.8	12303.2	11976.6	10398.2	9363.3	8896.2	8880.9	9491.6	8352.8
67.5°	5412.8	9732.7	10886.7	11045.4	11430.1	10505.1	9274.8	8832.1	9051.9	9555.6	8276.5
70°	2314.1	6423.4	8749.7	9006.1	9946.4	9973.8	9021.3	8569.5	9012.2	9055.0	7733.1
72.5°	1370.7	3028.4	5956.3	6514.9	7870.4	8581.8	8441.4	8111.6	8490.2	7952.9	6585.2
75°	970.9	1416.5	3025.4	3620.8	5480.0	6551.5	7091.9	7244.6	7229.3	6307.3	4942.7
77.5°	696.1	909.8	1276.1	1505.0	3059.0	4206.9	4866.3	5312.0	5168.6	4222.3	3046.8
80°	485.4	628.9	781.5	830.4	1419.6	2161.4	2564.5	2759.9	2674.3	2109.6	1364.6
82.5°	351.0	412.1	503.6	534.3	714.3	998.3	1187.5	1047.1	1004.4	778.5	589.2
85°	271.7	265.6	314.4	326.6	418.3	522.0	534.3	415.1	363.3	323.6	329.8
87.5°	192.3	164.9	167.9	174.0	216.8	277.8	271.7	171.0	146.5	155.7	177.1
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°	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	1987.4	1990.4	1996.6	1999.7	2005.8	2005.8	2011.9	2015.0	2021.1	2027.1	2030.1
5°	2024.1	2033.2	2045.5	2051.6	2063.8	2072.9	2085.1	2091.2	2103.5	2112.6	2124.9
7.5°	2078.9	2094.3	2109.6	2128.0	2146.2	2161.4	2173.7	2188.9	2210.4	2225.6	2234.8
10°	2130.9	2152.3	2179.8	2201.1	2228.7	2249.9	2268.3	2295.7	2320.2	2341.5	2353.8
12.5°	2198.1	2225.6	2253.0	2286.7	2323.3	2350.7	2378.2	2414.8	2448.4	2472.9	2485.1
15°	2277.5	2311.1	2341.5	2381.3	2424.0	2460.6	2500.3	2540.1	2564.5	2564.5	2558.3
17.5°	2359.9	2387.5	2424.0	2469.8	2527.8	2573.6	2595.0	2601.1	2591.9	2570.6	2555.2
20°	2442.4	2466.7	2506.4	2561.4	2622.4	2631.6	2610.2	2582.8	2555.2	2518.7	2494.3
22.5°	2509.4	2543.1	2604.0	2668.2	2671.3	2619.4	2561.4	2515.5	2472.9	2430.2	2384.4
25°	2588.9	2634.7	2717.1	2741.6	2662.1	2564.5	2482.1	2414.8	2344.6	2274.4	2222.6
27.5°	2686.5	2753.8	2836.2	2765.9	2610.2	2472.9	2359.9	2259.2	2167.6	2069.9	2011.9
30°	2790.4	2894.2	2912.6	2729.3	2521.7	2344.6	2192.0	2039.4	1923.3	1834.8	1801.2
32.5°	2915.6	3049.9	2939.9	2665.2	2402.6	2170.7	1966.1	1782.9	1685.3	1630.2	1615.0
35°	3104.8	3214.7	2955.3	2598.0	2265.3	1963.1	1706.6	1560.0	1499.0	1462.3	1444.1
37.5°	3376.5	3373.5	2952.1	2515.5	2106.5	1737.1	1499.0	1395.1	1346.3	1315.8	1282.2
40°	3694.0	3495.6	2933.8	2396.5	1892.8	1520.4	1355.5	1257.8	1212.0	1175.4	1135.6
42.5°	4008.5	3578.0	2881.9	2219.5	1627.2	1364.6	1251.7	1163.2	1114.3	1074.7	1019.7
45°	4280.2	3611.6	2781.2	1975.2	1389.1	1242.5	1184.5	1108.2	1050.2	989.2	946.4
47.5°	4494.0	3605.4	2619.4	1688.3	1230.4	1157.0	1129.6	1077.8	1007.5	931.1	876.1
50°	4674.0	3559.6	2399.6	1434.9	1123.5	1080.7	1071.7	1056.3	943.4	879.2	845.6
52.5°	4838.9	3492.6	2164.5	1263.9	1031.9	995.3	1013.6	998.3	919.0	864.0	830.4
55°	5064.8	3446.7	1932.5	1132.6	925.0	915.9	931.1	952.5	903.7	851.7	815.2
57.5°	5330.4	3471.1	1755.5	986.1	824.3	830.4	882.3	912.9	888.4	833.4	796.8
60°	5635.7	3544.5	1599.8	845.6	741.9	757.1	833.4	876.1	873.1	809.1	766.2
62.5°	5977.6	3620.8	1352.4	738.8	671.6	696.1	775.4	830.4	839.5	784.6	732.7
63°	6044.8	3626.9	1288.3	717.4	659.4	686.9	760.2	818.2	830.4	778.5	726.6
65°	6209.6	3571.9	1038.0	659.4	610.5	641.2	714.3	766.2	790.7	744.9	702.2
67.5°	6072.3	3123.1	781.5	589.2	570.9	592.3	656.4	705.3	726.6	705.3	662.4
70°	5553.2	2271.4	610.5	525.1	528.2	543.4	592.3	638.1	662.4	656.4	616.7
72.5°	4472.5	1288.3	509.8	470.2	479.3	497.6	531.2	573.9	595.4	592.3	564.8
75°	2946.0	659.4	430.5	421.3	427.4	442.7	467.1	500.6	525.1	522.0	509.8
77.5°	1459.2	457.9	369.4	372.5	375.6	387.8	406.0	436.6	451.8	454.8	451.8
80°	601.5	357.2	317.5	320.5	323.6	332.8	344.9	372.5	381.7	387.8	390.8
82.5°	360.2	271.7	253.4	259.5	262.6	271.7	280.9	305.3	314.4	323.6	323.6
85°	238.0	189.2	183.2	189.2	195.3	201.5	204.6	219.8	235.1	247.3	253.4
87.5°	128.3	113.0	110.0	113.0	113.0	119.1	125.2	140.4	158.8	171.0	177.1
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°	1975.2	1975.2	1975.2	1975.2	1975.2
2.5°	2024.1	2027.1	2024.1	2027.1	2030.1
5°	2124.9	2130.9	2128.0	2128.0	2140.1
7.5°	2240.8	2253.0	2253.0	2259.2	2265.3
10°	2366.0	2378.2	2387.5	2387.5	2396.5
12.5°	2491.2	2497.3	2506.4	2506.4	2506.4
15°	2555.2	2552.2	2549.2	2546.2	2546.2
17.5°	2546.2	2533.9	2527.8	2521.7	2524.8
20°	2479.0	2457.6	2451.4	2442.4	2448.4
22.5°	2363.0	2332.4	2320.2	2305.0	2311.1
25°	2188.9	2152.3	2146.2	2128.0	2137.0
27.5°	1987.4	1969.2	1966.1	1963.1	1978.2
30°	1798.2	1804.3	1807.3	1813.4	1828.7
32.5°	1624.1	1636.3	1639.4	1642.5	1663.8
35°	1453.1	1438.0	1453.1	1447.0	1465.3
37.5°	1267.0	1254.8	1242.5	1227.3	1239.4
40°	1111.2	1089.9	1053.3	1034.9	1038.0
42.5°	989.2	961.7	931.1	912.9	912.9
45°	909.8	876.1	848.7	836.5	836.5
47.5°	848.7	833.4	818.2	809.1	809.1
50°	824.3	806.0	796.8	790.7	790.7
52.5°	806.0	787.6	778.5	772.4	766.2
55°	790.7	763.1	754.1	751.0	751.0
57.5°	769.3	744.9	732.7	729.7	729.7
60°	735.8	717.4	705.3	702.2	702.2
62.5°	702.2	683.9	671.6	671.6	671.6
63°	696.1	674.6	665.5	665.5	665.5
65°	668.5	647.3	638.1	638.1	635.1
67.5°	631.9	610.5	604.5	604.5	598.4
70°	589.2	570.9	564.8	567.8	555.6
72.5°	546.6	528.2	519.0	519.0	506.8
75°	497.6	479.3	467.1	464.1	451.8
77.5°	442.7	427.4	415.1	402.9	396.8
80°	384.7	372.5	357.2	348.0	338.9
82.5°	323.6	311.4	302.2	314.4	268.7
85°	253.4	241.1	229.0	247.3	192.3
87.5°	186.2	180.2	167.9	146.5	128.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)