

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: P257935

Luminaire Tested: **ARCH-L-AF72-190-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257935
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-AF72-190-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22458.2 lumens
Efficiency: N/A
Efficacy: 118.8 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

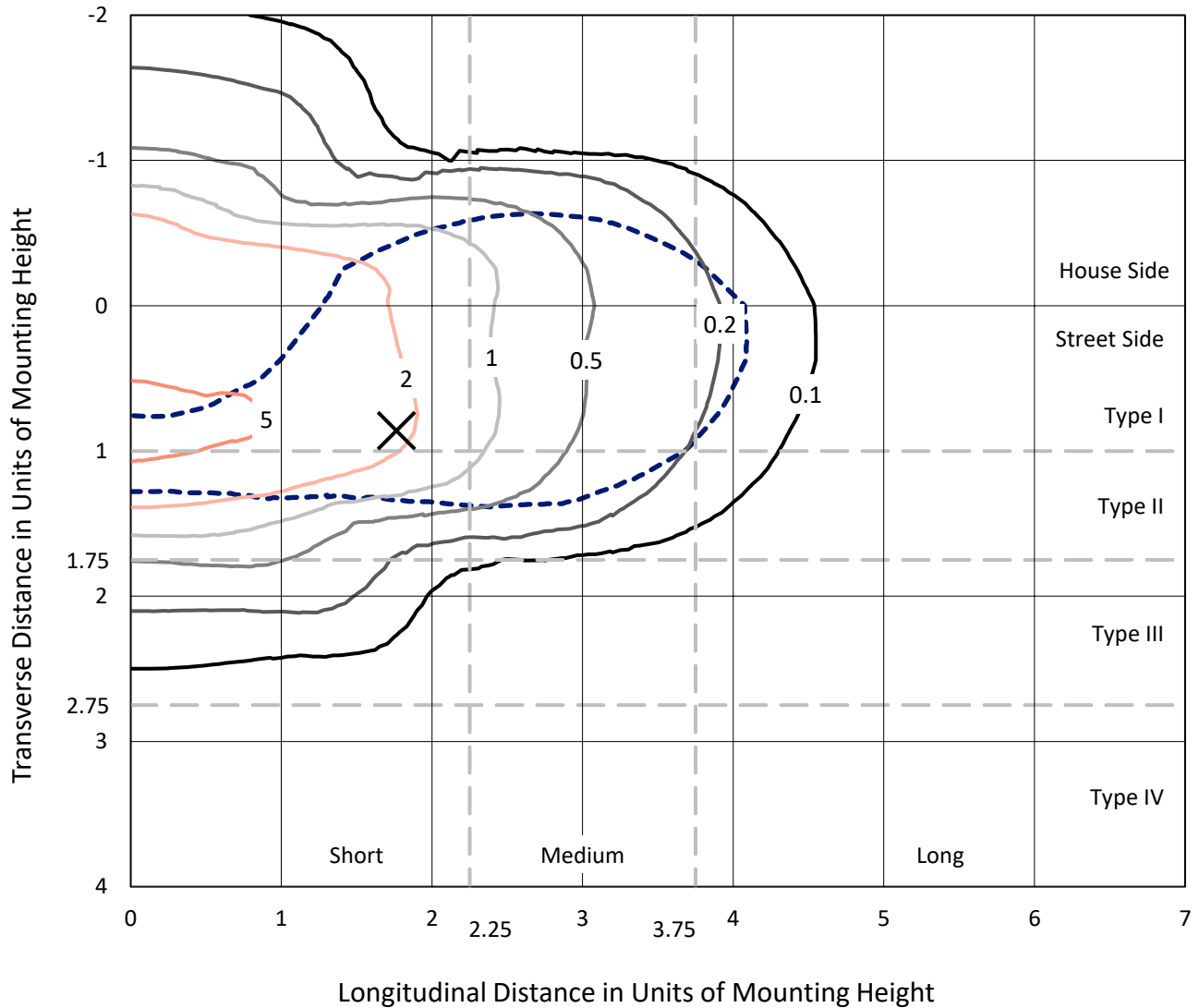
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

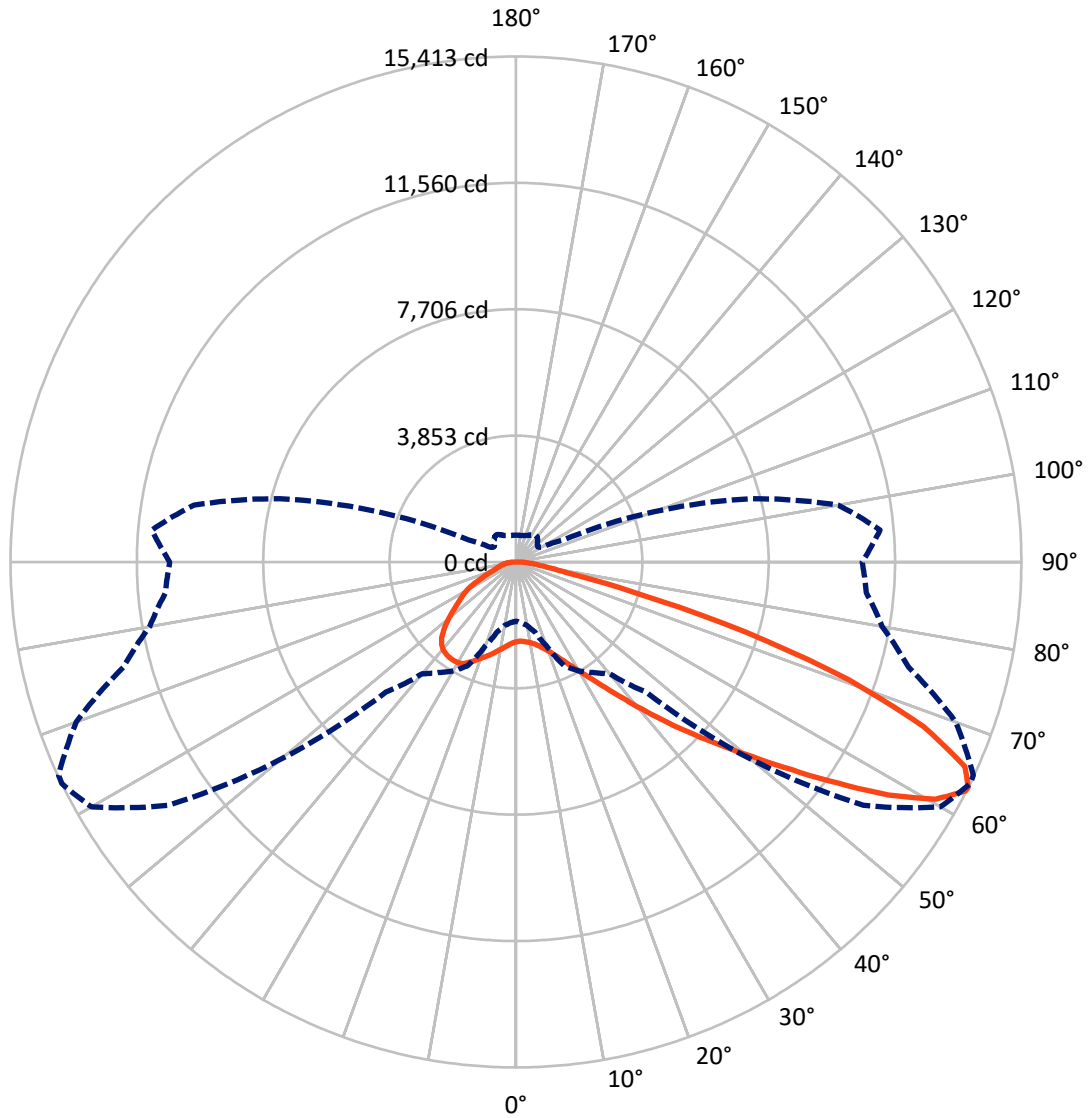
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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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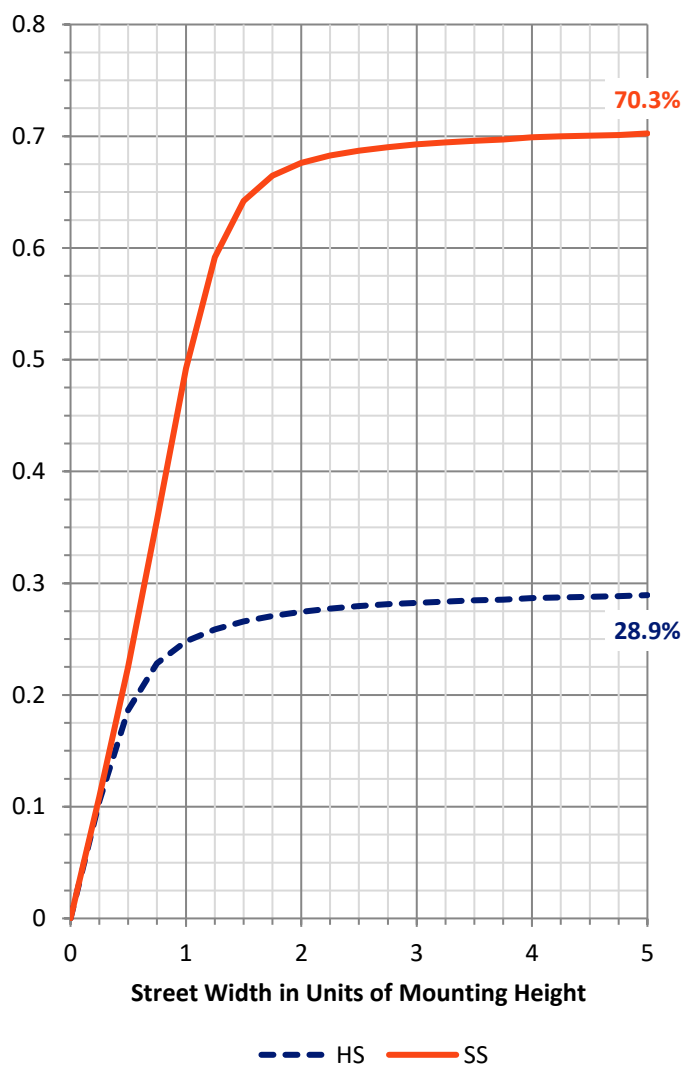
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6601.9	0.0	6601.9
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	15856.3	0.0	15856.3
	% Fixture	70.6	0.0	70.6
Total	Lumens	22458.2	0.0	22458.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.8	1.1
10°-20°	808.8	3.6
20°-30°	1518.3	6.8
30°-40°	2544.8	11.3
40°-50°	4269.6	19.0
50°-60°	5412.6	24.1
60°-70°	4774.7	21.3
70°-80°	2464.8	11.0
80°-90°	421.8	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°	22458.2	100.0
0°-180°	22458.2	100.0

Coefficient of Utilization

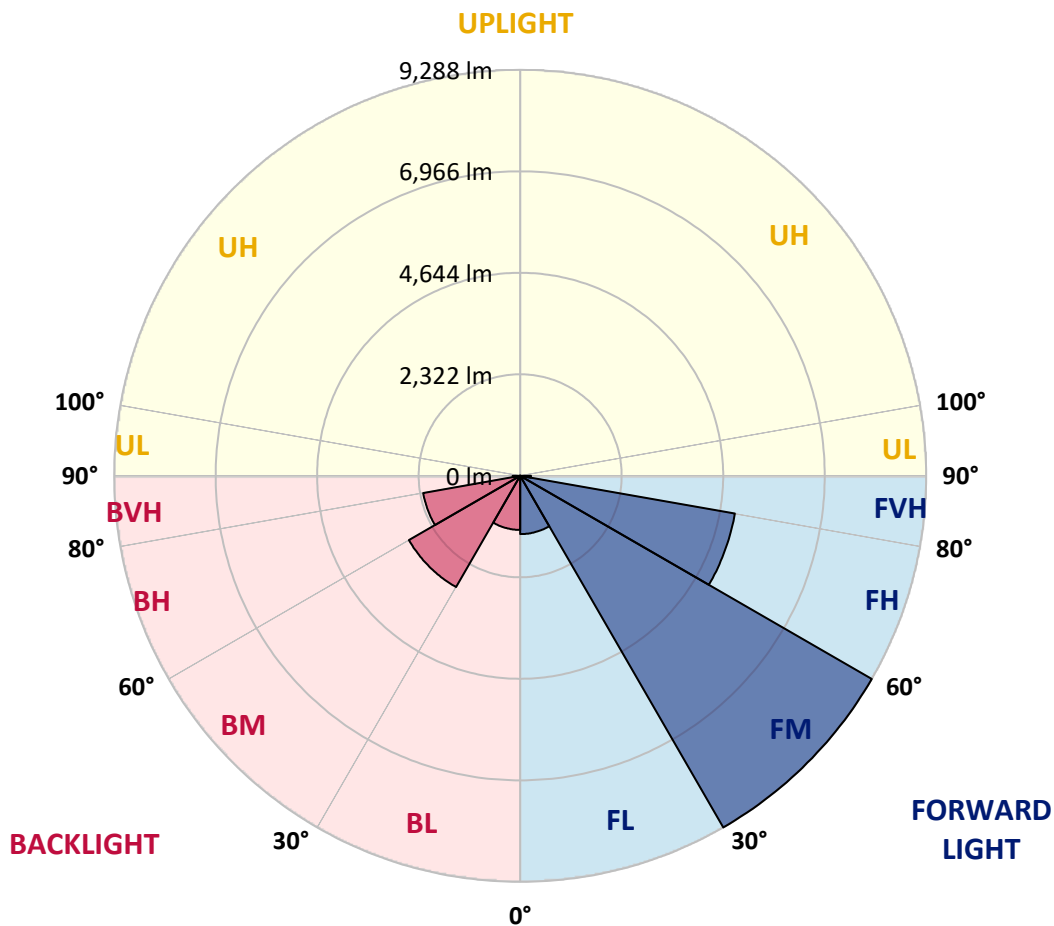


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.0	5.9			
FM (30°-60°)	9288.1	41.4			
FH (60°-80°)	4987.0	22.2			G2/5000
FVH (80°-90°)	248.2	1.1			G3/500
BL (0°-30°)	1237.0	5.5	B3/2500		
BM (30°-60°)	2938.9	13.1	B3/5000		
BH (60°-80°)	2252.5	10.0	B3/2500		G3/2500
BVH (80°-90°)	173.6	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°	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2
2.5°	2417.2	2413.4	2413.4	2413.4	2413.4	2409.7	2413.4	2420.9	2417.2	2413.4	2420.9
5°	2424.7	2420.9	2420.9	2420.9	2424.7	2420.9	2424.7	2435.9	2428.5	2428.5	2435.9
7.5°	2443.5	2439.8	2443.5	2439.8	2439.8	2439.8	2443.5	2454.7	2451.0	2454.7	2466.1
10°	2466.1	2466.1	2466.1	2466.1	2466.1	2466.1	2473.5	2481.1	2484.9	2488.6	2503.6
12.5°	2533.7	2533.7	2533.7	2530.0	2530.0	2518.7	2533.7	2541.3	2548.8	2556.2	2567.6
15°	2676.6	2676.6	2672.8	2657.7	2657.7	2635.3	2638.9	2642.8	2642.8	2650.3	2657.7
17.5°	2864.6	2860.7	2853.3	2842.0	2827.0	2800.7	2793.1	2785.6	2774.3	2770.6	2770.6
20°	3127.6	3123.9	3108.9	3078.8	3060.1	3018.7	2988.6	2958.5	2947.3	2928.4	2924.7
22.5°	3503.6	3503.6	3473.6	3428.4	3413.4	3327.0	3240.4	3176.5	3154.0	3127.6	3127.6
25°	3958.5	3954.7	3913.3	3860.6	3796.9	3706.6	3601.3	3514.9	3458.5	3398.3	3375.8
27.5°	4503.5	4492.3	4435.9	4372.0	4251.8	4139.0	4014.8	3924.6	3827.0	3751.8	3684.0
30°	5142.7	5131.4	5033.6	4913.3	4789.3	4676.6	4496.0	4387.0	4232.9	4142.7	4067.5
32.5°	5883.2	5871.9	5695.2	5578.7	5447.1	5308.1	5093.7	4920.8	4725.4	4597.5	4492.3
35°	6826.7	6781.6	6529.8	6368.1	6161.3	6022.3	5796.8	5563.7	5334.4	5153.9	4999.8
37.5°	7845.5	7792.9	7571.1	7330.5	7127.5	6958.2	6638.8	6345.6	6075.0	5826.8	5635.0
40°	8909.3	8770.2	8533.4	8356.8	8217.7	8056.0	7721.5	7413.2	6988.4	6710.2	6420.7
42.5°	9646.2	9510.8	9345.4	9228.9	9161.3	9037.2	8849.2	8582.4	8202.6	8210.2	7447.0
45°	10131.1	9931.8	9819.1	9826.6	9852.9	9852.9	9819.1	9777.7	9612.3	9725.1	9086.0
47.5°	9958.2	9826.6	9755.2	9905.6	10093.5	10281.6	10499.5	10736.4	11007.0	11326.6	10540.9
50°	8943.2	8992.0	9025.9	9345.4	9747.7	10176.2	10676.2	11322.7	12078.4	12225.0	11845.4
52.5°	7323.0	7428.2	7541.0	8029.7	8559.8	9300.3	10176.2	11243.9	12258.8	12856.5	12819.0
55°	5687.7	5819.2	6059.8	6424.6	6845.5	7544.8	8627.4	10273.9	11856.6	12807.7	13386.6
57.5°	4048.7	4240.4	4556.2	5063.7	5435.8	5830.5	6631.3	8458.3	10191.2	11961.8	13292.6
60°	2691.6	2781.8	2988.6	3620.1	4247.9	4661.4	5229.0	5890.7	7308.0	9747.7	12322.7
62.5°	1909.7	1969.8	2097.7	2383.4	2951.0	3699.1	4041.2	4345.7	4800.6	6270.4	9894.3
63°	1804.4	1857.1	1962.3	2202.8	2714.1	3488.5	3838.2	4116.4	4447.2	5608.8	9360.5
65°	1496.2	1518.7	1575.1	1691.7	1966.1	2608.9	3180.3	3349.5	3405.8	3605.1	5864.4
67.5°	1263.1	1278.2	1296.9	1330.8	1439.8	1736.7	2372.0	2586.3	2522.5	2387.1	2898.3
70°	1097.7	1109.0	1139.0	1180.4	1218.0	1293.2	1631.5	1951.1	1879.6	1695.3	1774.4
72.5°	875.9	894.8	928.4	999.9	1075.1	1172.9	1255.6	1454.8	1409.7	1233.0	1251.8
75°	691.7	703.0	733.0	785.7	857.1	969.9	1131.5	1199.2	1075.1	909.7	909.7
77.5°	548.8	560.2	586.4	627.8	672.9	751.8	864.6	1041.4	966.1	684.2	680.4
80°	413.5	424.8	451.1	488.7	533.8	590.2	657.8	736.9	887.1	639.0	511.3
82.5°	304.5	308.2	353.4	379.6	394.8	439.9	496.2	541.4	609.0	590.2	454.8
85°	229.3	225.5	255.6	274.5	278.2	289.4	323.3	368.4	398.5	383.4	353.4
87.5°	127.9	112.7	131.5	150.3	150.3	154.2	161.6	187.9	214.2	206.7	187.9
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°	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2
2.5°	2420.9	2420.9	2417.2	2417.2	2420.9	2420.9	2417.2	2428.5	2435.9	2435.9	2439.8
5°	2432.2	2435.9	2432.2	2432.2	2435.9	2435.9	2439.8	2451.0	2462.2	2469.8	2481.1
7.5°	2466.1	2469.8	2466.1	2466.1	2469.8	2473.5	2481.1	2496.1	2503.6	2518.7	2537.4
10°	2503.6	2507.4	2503.6	2507.4	2511.3	2514.9	2526.2	2537.4	2548.8	2563.8	2593.9
12.5°	2571.3	2575.0	2567.6	2571.3	2582.6	2582.6	2590.1	2597.6	2616.4	2635.3	2665.3
15°	2665.3	2665.3	2657.7	2661.5	2672.8	2672.8	2676.6	2684.1	2706.7	2729.2	2759.3
17.5°	2774.3	2781.8	2778.0	2781.8	2789.4	2793.1	2793.1	2800.7	2815.6	2830.7	2860.7
20°	2920.9	2924.7	2917.1	2924.7	2932.2	2924.7	2917.1	2913.4	2920.9	2928.4	2962.2
22.5°	3120.1	3116.4	3097.6	3097.6	3097.6	3082.5	3063.7	3041.2	3041.2	3030.0	3056.2
25°	3357.0	3345.7	3319.4	3323.1	3296.8	3274.3	3240.4	3206.6	3176.5	3165.2	3169.1
27.5°	3635.2	3612.6	3586.3	3578.8	3552.4	3511.1	3454.8	3390.9	3341.9	3304.3	3296.8
30°	3984.8	3935.9	3890.8	3883.3	3841.9	3774.3	3684.0	3597.6	3514.9	3451.0	3428.4
32.5°	4398.3	4323.1	4251.8	4244.1	4176.6	4086.3	3977.2	3857.0	3736.6	3635.2	3586.3
35°	4883.3	4770.5	4702.7	4684.0	4586.2	4473.5	4353.2	4199.1	4029.9	3887.0	3796.9
37.5°	5473.5	5356.9	5240.4	5244.1	5108.8	4977.2	4815.6	4627.5	4413.3	4214.1	4086.3
40°	6202.7	6037.3	5887.0	5853.1	5736.5	5552.3	5375.7	5157.7	4894.5	4631.4	4447.2
42.5°	7086.1	6815.5	6608.8	6578.6	6424.6	6199.0	5984.6	5695.2	5428.3	5108.8	4886.9
45°	8089.9	7657.6	7409.4	7364.3	7116.2	6886.9	6627.5	6319.2	5992.3	5631.3	5368.1
47.5°	9338.0	8721.4	8300.3	8225.1	7883.0	7582.4	7311.7	6969.6	6578.6	6176.4	5887.0
50°	10792.7	9883.0	9315.3	9198.9	8740.2	8386.8	8040.9	7612.4	7195.2	6774.1	6439.5
52.5°	12251.4	11273.9	10518.3	10375.5	9698.8	9225.1	8770.2	8341.7	7849.3	7432.1	7052.3
55°	13424.1	12773.8	11897.9	11698.7	10728.8	10086.0	9488.3	8999.5	8510.9	8180.0	7732.8
57.5°	14130.9	14097.0	13405.3	13131.0	11804.0	10852.8	10187.6	9631.1	9157.4	9018.4	8424.4
60°	14112.2	14988.0	14691.0	14484.3	12890.4	11638.6	10773.9	10172.5	9781.6	9939.5	9119.9
62.5°	13251.3	15025.7	15382.7	15326.4	14048.2	12270.2	11255.2	10634.9	10428.1	10897.9	9841.6
63°	12939.2	14939.1	15412.7	15390.3	14270.1	12390.4	11337.9	10725.1	10555.9	11142.4	9973.1
65°	10935.5	14183.6	15048.2	15149.7	14747.5	12803.9	11529.6	10954.4	10935.5	11687.5	10285.2
67.5°	6665.2	11984.4	13405.3	13600.9	14074.6	12935.5	11420.6	10875.4	11146.1	11766.3	10191.2
70°	2849.5	7909.4	10773.9	11089.7	12247.5	12281.4	11108.5	10552.1	11097.3	11149.9	9522.2
72.5°	1687.9	3729.1	7334.2	8022.2	9691.3	10567.2	10394.3	9988.3	10454.4	9792.8	8108.6
75°	1195.4	1744.4	3725.4	4458.5	6747.9	8067.2	8732.6	8920.7	8901.8	7766.5	6086.2
77.5°	857.1	1120.2	1571.3	1853.2	3766.7	5180.2	5992.3	6541.1	6364.4	5199.0	3751.8
80°	597.7	774.4	962.3	1022.5	1748.0	2661.5	3157.7	3398.3	3293.1	2597.6	1680.4
82.5°	432.3	507.5	620.3	657.8	879.6	1229.2	1462.3	1289.4	1236.9	958.6	725.5
85°	334.6	327.0	387.3	402.2	515.0	642.9	657.8	511.3	447.3	398.5	406.0
87.5°	236.9	203.0	206.7	214.2	266.9	342.1	334.6	210.6	180.5	191.7	218.1
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°	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2	2432.2
2.5°	2447.3	2451.0	2458.6	2462.2	2469.8	2469.8	2477.4	2481.1	2488.6	2496.1	2499.9
5°	2492.3	2503.6	2518.7	2526.2	2541.3	2552.6	2567.6	2575.0	2590.1	2601.4	2616.4
7.5°	2560.1	2578.8	2597.6	2620.1	2642.8	2661.5	2676.6	2695.3	2721.6	2740.4	2751.8
10°	2624.0	2650.3	2684.1	2710.4	2744.3	2770.6	2793.1	2827.0	2857.0	2883.4	2898.3
12.5°	2706.7	2740.4	2774.3	2815.6	2860.7	2894.6	2928.4	2973.6	3014.9	3044.9	3060.1
15°	2804.3	2845.7	2883.4	2932.2	2984.9	3030.0	3078.8	3127.6	3157.7	3157.7	3150.3
17.5°	2905.9	2939.7	2984.9	3041.2	3112.7	3169.1	3195.3	3202.8	3191.6	3165.2	3146.4
20°	3007.4	3037.4	3086.3	3154.0	3229.1	3240.4	3214.2	3180.3	3146.4	3101.4	3071.3
22.5°	3090.1	3131.5	3206.6	3285.5	3289.4	3225.5	3154.0	3097.6	3044.9	2992.4	2935.9
25°	3187.8	3244.2	3345.7	3375.8	3278.0	3157.7	3056.2	2973.6	2887.0	2800.7	2736.7
27.5°	3308.2	3390.9	3492.4	3405.8	3214.2	3044.9	2905.9	2781.8	2669.1	2548.8	2477.4
30°	3435.9	3563.7	3586.3	3360.7	3105.1	2887.0	2699.1	2511.3	2368.3	2259.3	2218.0
32.5°	3590.0	3755.5	3620.1	3281.8	2958.5	2672.8	2420.9	2195.3	2075.1	2007.4	1988.6
35°	3823.1	3958.5	3638.9	3199.1	2789.4	2417.2	2101.4	1921.0	1845.8	1800.7	1778.0
37.5°	4157.8	4153.9	3635.2	3097.6	2593.9	2139.0	1845.8	1718.0	1657.8	1620.2	1578.9
40°	4548.7	4304.3	3612.6	2951.0	2330.7	1872.0	1669.1	1548.7	1492.4	1447.2	1398.4
42.5°	4935.9	4405.8	3548.7	2732.9	2003.7	1680.4	1541.3	1432.3	1372.1	1323.2	1255.6
45°	5270.4	4447.2	3424.6	2432.2	1710.5	1529.9	1458.6	1364.6	1293.2	1218.0	1165.4
47.5°	5533.6	4439.6	3225.5	2078.8	1515.0	1424.7	1390.9	1327.0	1240.5	1146.5	1078.9
50°	5755.3	4383.3	2954.7	1766.8	1383.4	1330.8	1319.6	1300.7	1161.7	1082.6	1041.4
52.5°	5958.4	4300.6	2665.3	1556.3	1270.5	1225.6	1248.1	1229.2	1131.5	1063.8	1022.5
55°	6236.5	4244.1	2379.5	1394.7	1139.0	1127.8	1146.5	1172.9	1112.7	1048.8	1003.8
57.5°	6563.6	4274.2	2161.5	1214.2	1015.0	1022.5	1086.4	1124.1	1093.9	1026.3	981.1
60°	6939.5	4364.5	1969.8	1041.4	913.5	932.3	1026.3	1078.9	1075.1	996.2	943.6
62.5°	7360.6	4458.5	1665.3	909.7	827.0	857.1	954.8	1022.5	1033.8	966.1	902.3
63°	7443.3	4466.0	1586.5	883.5	812.1	845.7	936.1	1007.5	1022.5	958.6	894.8
65°	7646.3	4398.3	1278.2	812.1	751.8	789.4	879.6	943.6	973.6	917.2	864.6
67.5°	7477.0	3845.7	962.3	725.5	703.0	729.3	808.2	868.4	894.8	868.4	815.7
70°	6838.0	2796.8	751.8	646.6	650.3	669.1	729.3	785.7	815.7	808.2	759.4
72.5°	5507.2	1586.5	627.8	579.0	590.2	612.7	654.1	706.7	733.0	729.3	695.4
75°	3627.6	812.1	530.0	518.8	526.3	545.1	575.1	616.6	646.6	642.9	627.8
77.5°	1796.9	563.9	454.8	458.7	462.3	477.5	500.0	537.5	556.3	560.2	556.3
80°	740.6	439.9	390.9	394.8	398.5	409.7	424.8	458.7	470.0	477.5	481.2
82.5°	443.6	334.6	312.1	319.6	323.3	334.6	345.8	376.0	387.3	398.5	398.5
85°	293.3	233.0	225.5	233.0	240.6	248.1	251.9	270.6	289.4	304.5	312.1
87.5°	157.9	139.1	135.4	139.1	139.1	146.6	154.2	172.9	195.5	210.6	218.1
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°	2432.2	2432.2	2432.2	2432.2	2432.2
2.5°	2492.3	2496.1	2492.3	2496.1	2499.9
5°	2616.4	2624.0	2620.1	2620.1	2635.3
7.5°	2759.3	2774.3	2774.3	2781.8	2789.4
10°	2913.4	2928.4	2939.7	2939.7	2951.0
12.5°	3067.6	3075.0	3086.3	3086.3	3086.3
15°	3146.4	3142.8	3138.9	3135.2	3135.2
17.5°	3135.2	3120.1	3112.7	3105.1	3108.9
20°	3052.4	3026.2	3018.7	3007.4	3014.9
22.5°	2909.7	2872.1	2857.0	2838.2	2845.7
25°	2695.3	2650.3	2642.8	2620.1	2631.5
27.5°	2447.3	2424.7	2420.9	2417.2	2435.9
30°	2214.1	2221.7	2225.5	2232.9	2251.8
32.5°	1999.9	2015.0	2018.7	2022.5	2048.8
35°	1789.3	1770.5	1789.3	1781.9	1804.4
37.5°	1560.1	1545.0	1529.9	1511.2	1526.3
40°	1368.4	1342.0	1296.9	1274.4	1278.2
42.5°	1218.0	1184.2	1146.5	1124.1	1124.1
45°	1120.2	1078.9	1045.1	1030.0	1030.0
47.5°	1045.1	1026.3	1007.5	996.2	996.2
50°	1015.0	992.4	981.1	973.6	973.6
52.5°	992.4	969.9	958.6	951.1	943.6
55°	973.6	939.8	928.4	924.8	924.8
57.5°	947.3	917.2	902.3	898.4	898.4
60°	906.0	883.5	868.4	864.6	864.6
62.5°	864.6	842.1	827.0	827.0	827.0
63°	857.1	830.8	819.6	819.6	819.6
65°	823.3	796.9	785.7	785.7	782.0
67.5°	778.2	751.8	744.3	744.3	736.9
70°	725.5	703.0	695.4	699.3	684.2
72.5°	672.9	650.3	639.0	639.0	624.0
75°	612.7	590.2	575.1	571.4	556.3
77.5°	545.1	526.3	511.3	496.2	488.7
80°	473.6	458.7	439.9	428.6	417.3
82.5°	398.5	383.4	372.1	387.3	330.8
85°	312.1	296.9	281.9	304.5	236.9
87.5°	229.3	221.8	206.7	180.5	157.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)