

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: P237073

Luminaire Tested: **ARCH-L-AF72-200-D-U-T3-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P237073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 8/23/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-AF72-200-D-U-T3-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23617.5 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G4

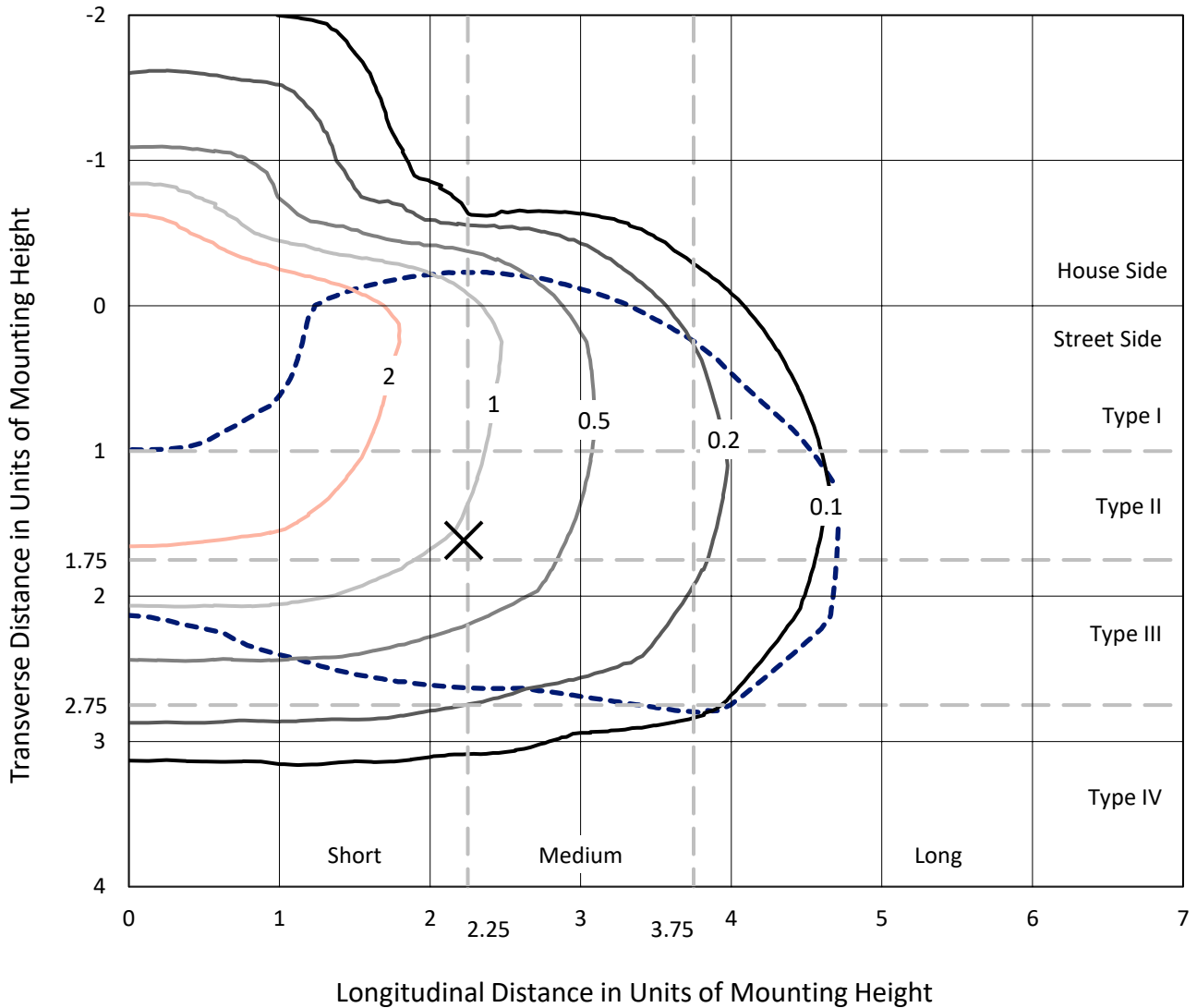
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P237073  
 CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

### Iso-Footcandle Lines of Horizontal Illumination

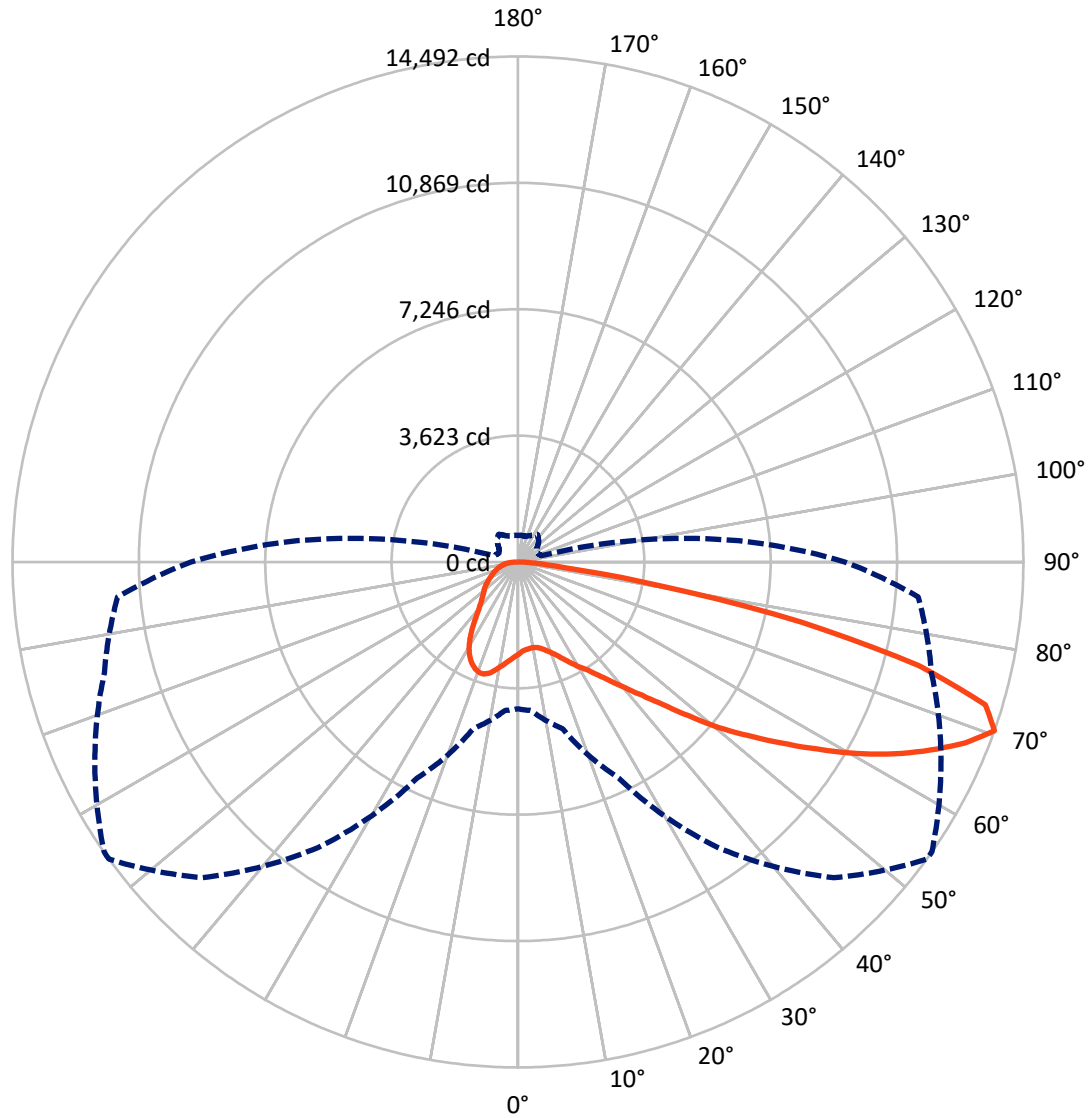
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type III - Short - N/A

REPORT NUMBER: P237073  
CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P237073  
 CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

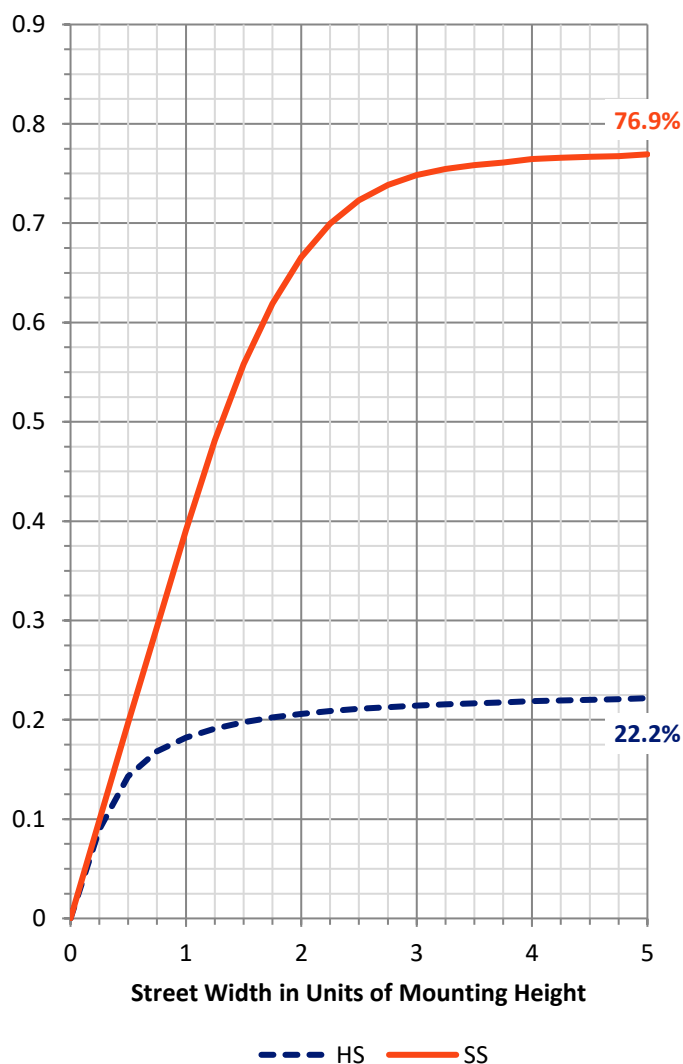
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5356.4	0.0	5356.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	18261.1	0.0	18261.1
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	23617.5	0.0	23617.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.3	1.1
10°-20°	828.6	3.5
20°-30°	1439.5	6.1
30°-40°	2103.7	8.9
40°-50°	3301.6	14.0
50°-60°	5077.2	21.5
60°-70°	6203.0	26.3
70°-80°	3845.9	16.3
80°-90°	558.7	2.4
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°	23617.5	100.0
0°-180°	23617.5	100.0

**Coefficient of Utilization**



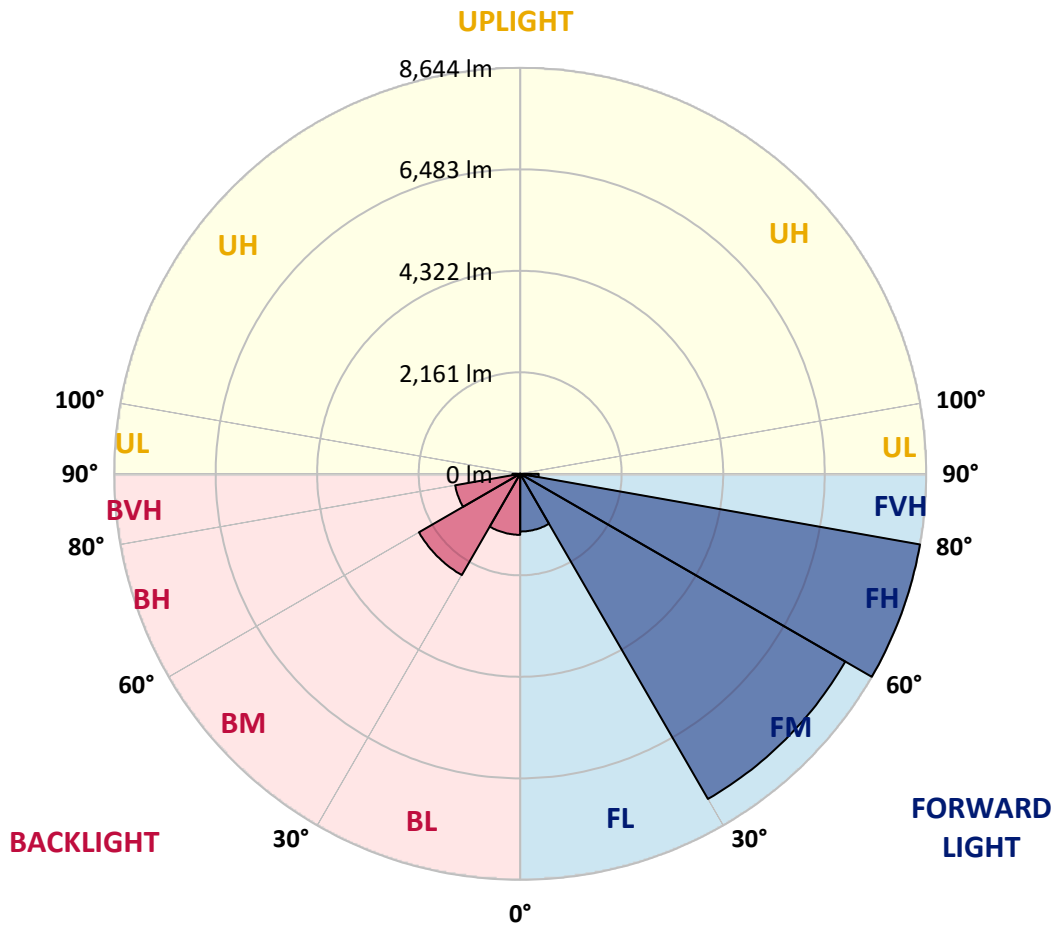
REPORT NUMBER: P237073  
 CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.8	5.2			
FM (30°-60°)	7993.4	33.8			
FH (60°-80°)	8644.4	36.6			G4/12000
FVH (80°-90°)	394.5	1.7			G3/500
BL (0°-30°)	1298.6	5.5	B3/2500		
BM (30°-60°)	2489.0	10.5	B2/2500		
BH (60°-80°)	1404.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	164.2	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type III Short





REPORT NUMBER: P237073

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3
2.5°	2538.5	2529.9	2529.9	2542.9	2547.2	2560.2	2560.2	2564.5	2577.4	2599.1	2625.1
5°	2460.7	2456.3	2460.7	2478.0	2486.6	2512.6	2521.2	2525.5	2551.5	2586.0	2625.1
7.5°	2382.8	2378.6	2387.2	2413.1	2439.1	2478.0	2499.7	2503.9	2542.9	2590.4	2642.3
10°	2356.9	2352.6	2365.6	2387.2	2413.1	2456.3	2491.0	2495.3	2551.5	2607.7	2681.2
12.5°	2391.4	2387.2	2400.1	2421.7	2447.7	2478.0	2516.9	2521.2	2594.8	2668.2	2746.1
15°	2478.0	2478.0	2482.3	2495.3	2521.2	2547.2	2581.8	2586.0	2664.0	2750.4	2828.2
17.5°	2612.1	2603.4	2603.4	2599.1	2616.3	2629.4	2672.6	2677.0	2759.2	2836.9	2914.8
20°	2776.4	2772.0	2754.8	2733.1	2728.9	2737.5	2780.7	2785.0	2867.2	2932.1	3005.6
22.5°	2975.3	2979.6	2940.7	2893.1	2871.6	2884.5	2923.4	2927.7	2988.2	3044.5	3109.4
25°	3239.1	3226.1	3169.9	3100.8	3057.5	3057.5	3096.4	3096.4	3152.5	3187.2	3230.5
27.5°	3490.0	3463.9	3412.0	3312.6	3243.5	3256.4	3295.4	3295.4	3347.2	3360.2	3381.8
30°	3762.4	3736.4	3671.5	3546.1	3455.4	3446.7	3494.2	3490.0	3559.1	3554.9	3537.5
32.5°	4095.4	4082.4	3974.3	3814.2	3693.2	3662.9	3706.2	3710.5	3753.7	3740.7	3684.6
35°	4562.4	4558.1	4458.7	4177.5	4017.6	3961.3	3987.3	3987.3	4017.6	3982.9	3887.8
37.5°	5150.6	5159.2	5072.7	4657.6	4432.6	4337.6	4341.9	4337.6	4346.3	4307.3	4207.8
40°	5738.8	5760.3	5756.0	5254.4	4968.9	4804.5	4744.0	4735.4	4757.0	4739.7	4644.6
42.5°	6512.8	6564.8	6443.7	5989.6	5669.6	5392.7	5228.4	5206.8	5254.4	5276.0	5185.2
45°	7317.2	7299.9	7109.6	6780.9	6491.2	6136.5	5825.1	5790.6	5825.1	5890.0	5794.9
47.5°	7736.6	7723.7	7676.1	7511.8	7468.5	7062.1	6590.6	6560.4	6495.6	6586.3	6473.9
50°	8428.6	8441.6	8247.0	8229.6	8411.4	8186.5	7455.6	7386.4	7269.7	7343.1	7248.0
52.5°	8930.3	8874.0	8753.0	8904.3	9470.8	9349.8	8268.6	8238.3	8130.2	8112.9	8069.7
55°	9133.5	9133.5	9155.2	9505.4	10314.1	10154.1	9150.8	9181.0	9034.1	8913.0	8969.2
57.5°	9194.0	9220.1	9405.9	9985.4	11304.5	10781.1	10123.9	10167.1	9955.1	9713.0	9890.3
60°	8895.7	8973.5	9418.9	10258.0	11862.3	11447.2	11148.9	11161.7	10854.7	10500.1	10811.4
62.5°	8130.2	8225.4	9021.1	10370.4	11771.5	12130.4	12117.5	12147.8	11728.2	11287.1	11676.3
65°	7191.8	7286.9	8134.6	10054.7	11702.3	12619.1	13004.0	13086.2	12545.5	11953.2	12217.0
67.5°	5812.3	5937.7	6742.1	8990.8	11365.0	13021.3	13834.3	13920.8	13177.0	12299.1	12169.4
70°	4212.2	4272.7	4947.4	6832.8	9989.8	12800.9	14491.7	14487.3	13384.6	12273.2	11520.8
72.5°	2028.2	2075.8	2659.6	4242.4	7144.3	10863.3	14016.0	14098.2	13099.2	11896.9	10037.3
75°	834.6	882.3	1076.9	1790.3	3749.4	7178.8	11879.6	12074.2	11896.9	10677.4	7853.4
77.5°	519.0	536.3	631.4	925.4	1712.5	3351.5	8316.2	8580.0	9427.6	8554.0	5185.2
80°	389.2	402.2	471.4	648.7	1081.1	1236.9	4130.0	4463.0	5712.7	4908.4	2348.2
82.5°	324.4	328.7	376.3	471.4	735.2	709.2	1323.3	1474.7	2664.0	1872.6	808.7
85°	302.7	311.4	337.3	337.3	467.1	445.4	549.2	575.1	774.1	640.0	281.2
87.5°	155.7	147.1	298.4	263.8	242.2	216.3	233.5	250.9	289.7	307.0	125.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237073

CATALOG NUMBER: ARCH-L-AF72-200-D-U-T3-7030

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3	2642.3
2.5°	2633.7	2646.7	2668.2	2689.9	2715.8	2746.1	2763.3	2785.0	2802.3	2793.6	2789.4
5°	2646.7	2668.2	2715.8	2759.2	2811.0	2871.6	2910.4	2953.8	2988.2	2997.0	2984.0
7.5°	2668.2	2707.2	2772.0	2849.9	2919.1	2997.0	3057.5	3118.0	3161.3	3169.9	3169.9
10°	2720.1	2763.3	2849.9	2953.8	3035.9	3118.0	3187.2	3234.8	3273.7	3291.0	3291.0
12.5°	2793.6	2845.5	2949.4	3074.8	3165.6	3243.5	3282.3	3304.0	3321.3	3338.5	3342.9
15°	2880.2	2936.4	3061.8	3195.9	3291.0	3329.9	3329.9	3325.7	3325.7	3334.3	3342.9
17.5°	2966.7	3027.2	3156.9	3299.6	3360.2	3338.5	3308.3	3295.4	3286.6	3282.3	3295.4
20°	3057.5	3118.0	3247.7	3381.8	3364.5	3273.7	3230.5	3200.2	3174.2	3161.3	3178.6
22.5°	3156.9	3213.2	3347.2	3438.1	3308.3	3169.9	3087.7	3040.1	2997.0	2971.0	2988.2
25°	3273.7	3329.9	3459.7	3455.4	3208.8	3014.3	2884.5	2806.7	2759.2	2733.1	2733.1
27.5°	3412.0	3459.7	3585.2	3412.0	3070.4	2806.7	2616.3	2542.9	2529.9	2508.3	2508.3
30°	3554.9	3593.7	3701.8	3312.6	2880.2	2534.2	2326.6	2292.0	2296.3	2274.8	2279.0
32.5°	3701.8	3740.7	3771.1	3165.6	2633.7	2227.1	2088.8	2062.9	2058.6	2041.2	2023.9
35°	3909.4	3965.7	3779.8	2966.7	2335.3	1972.0	1872.6	1846.6	1820.7	1760.0	1760.0
37.5°	4225.2	4285.7	3758.1	2720.1	2028.2	1773.1	1682.3	1647.6	1604.5	1543.9	1522.2
40°	4657.6	4657.6	3710.5	2443.4	1781.7	1613.1	1526.6	1483.3	1435.7	1375.2	1362.3
42.5°	5167.9	5046.8	3637.0	2162.2	1600.1	1504.9	1427.2	1379.5	1323.3	1254.1	1245.4
45°	5764.6	5435.9	3533.2	1911.5	1466.0	1440.0	1392.5	1310.3	1215.2	1141.6	1128.7
47.5°	6344.1	5786.3	3433.7	1734.2	1353.6	1414.2	1375.2	1236.9	1107.2	1003.3	990.3
50°	6979.9	6097.6	3317.0	1587.1	1267.1	1396.9	1353.6	1128.7	985.9	912.6	903.8
52.5°	7615.6	6413.3	3191.6	1431.4	1193.5	1362.3	1301.8	1050.8	981.7	882.3	869.2
55°	8285.9	6780.9	3044.5	1258.4	1107.2	1293.1	1232.6	1046.6	1012.0	882.3	851.9
57.5°	8938.9	7187.4	2806.7	1089.8	1012.0	1189.3	1206.5	1020.6	947.1	873.5	839.0
60°	9661.1	7620.0	2413.1	947.1	929.8	1102.8	1172.0	964.4	873.5	847.7	830.4
62.5°	10240.7	8009.1	1885.5	847.7	860.6	1033.6	1128.7	929.8	843.3	821.6	817.4
65°	10491.4	8017.8	1353.6	761.1	791.4	968.7	1085.5	899.5	817.4	808.7	804.3
67.5°	10227.6	7576.7	951.4	678.9	717.9	908.2	1029.2	869.2	791.4	795.7	787.1
70°	9375.6	6646.9	696.3	601.2	648.7	843.3	968.7	830.4	761.1	769.7	756.8
72.5°	7844.9	5180.8	557.9	536.3	592.5	774.1	908.2	787.1	713.6	717.9	691.9
75°	5794.9	3433.7	467.1	479.9	527.6	709.2	830.4	730.8	661.7	644.4	627.0
77.5°	3446.7	1764.4	384.9	419.4	471.4	631.4	743.8	661.7	605.4	575.1	562.2
80°	1422.8	713.6	315.6	354.6	410.9	562.2	657.3	579.5	540.7	510.4	493.0
82.5°	566.5	350.2	250.9	289.7	346.0	488.7	575.1	510.4	471.4	449.7	402.2
85°	216.3	172.9	168.7	203.2	259.5	376.3	475.8	428.2	397.8	341.7	328.7
87.5°	86.6	77.8	77.8	99.4	147.1	237.8	341.7	298.4	311.4	246.5	250.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)