

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: P400061

Luminaire Tested: **ARCH-L-PA3-230-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400061  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-230-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26536 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

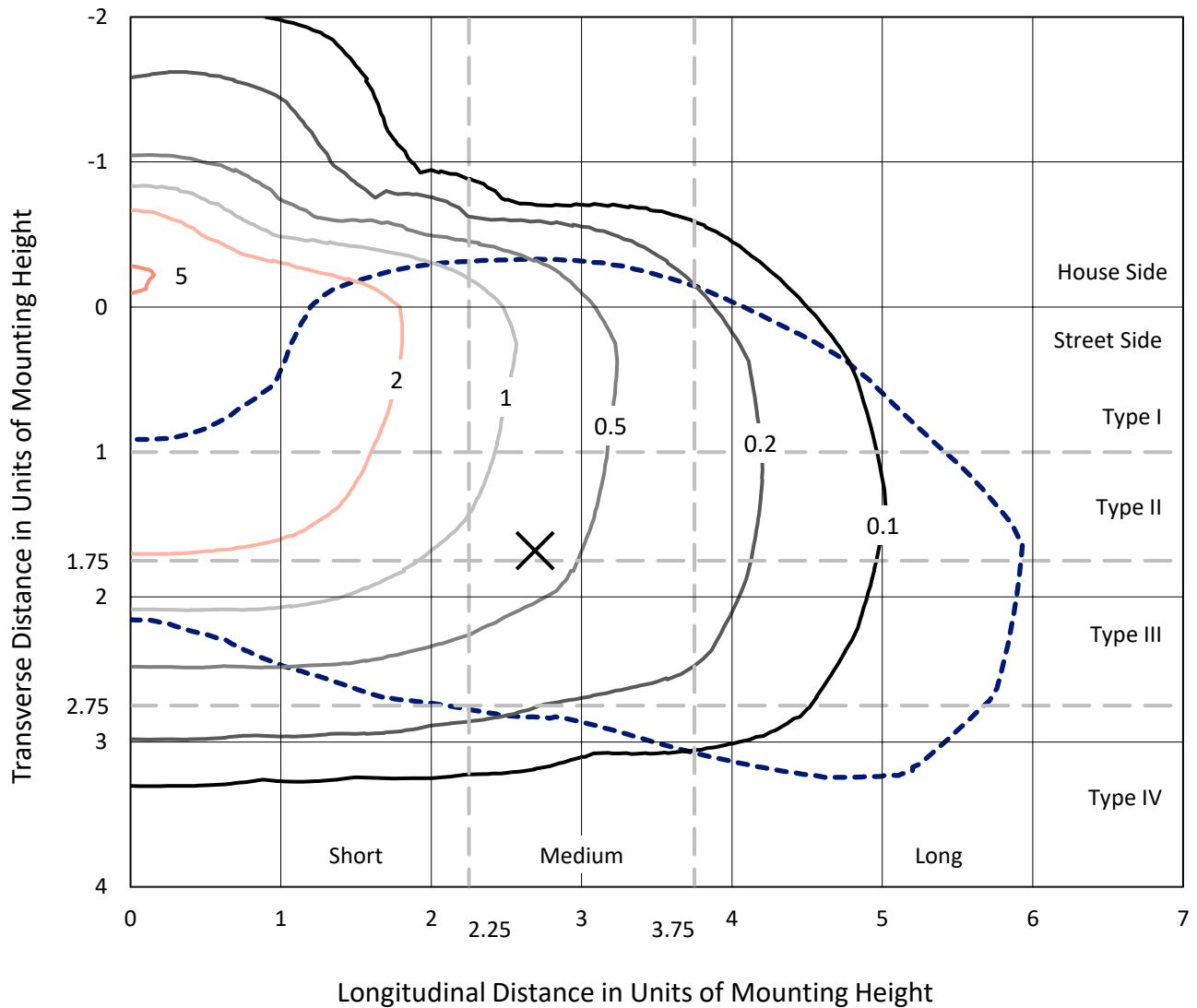
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

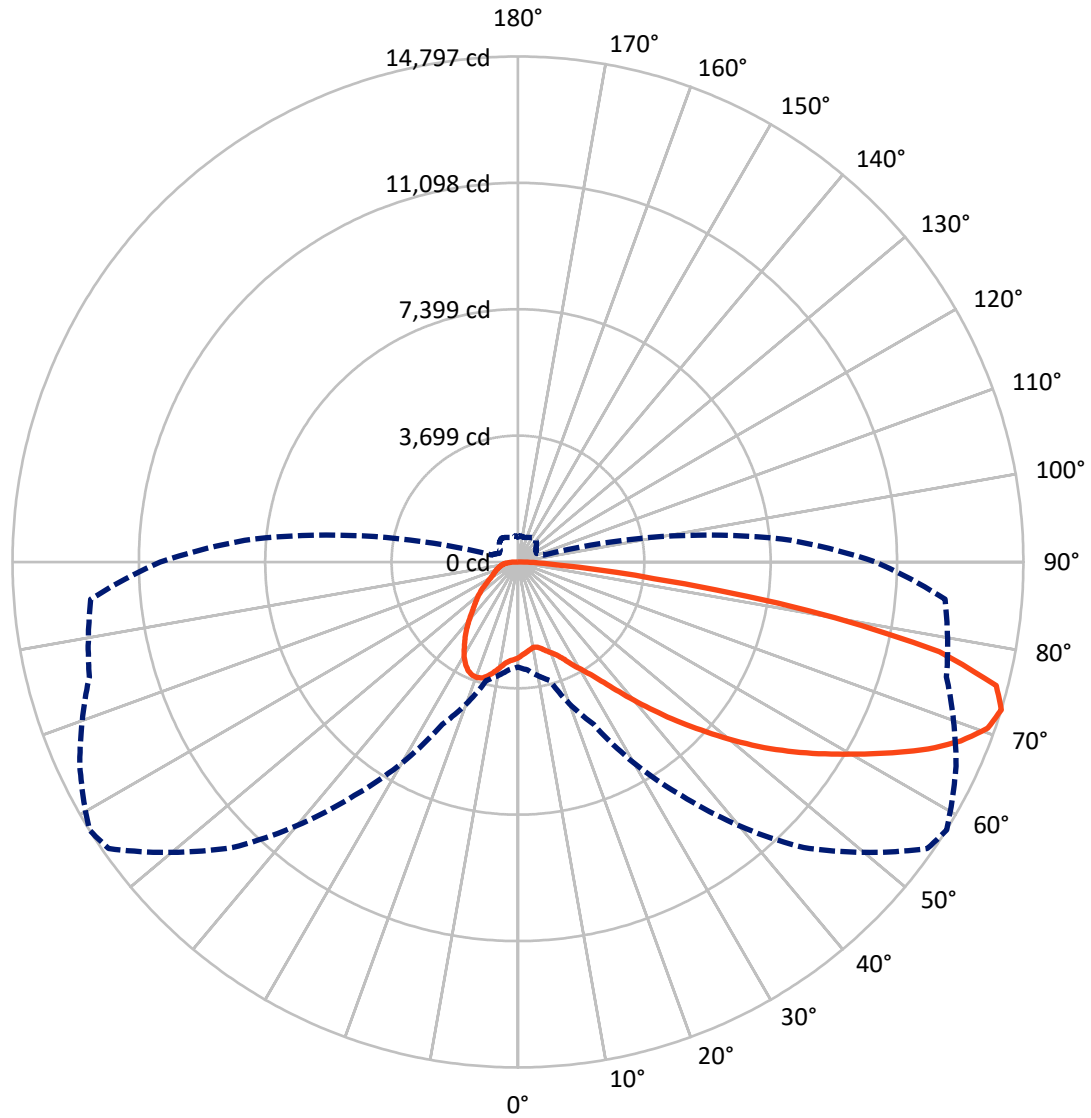
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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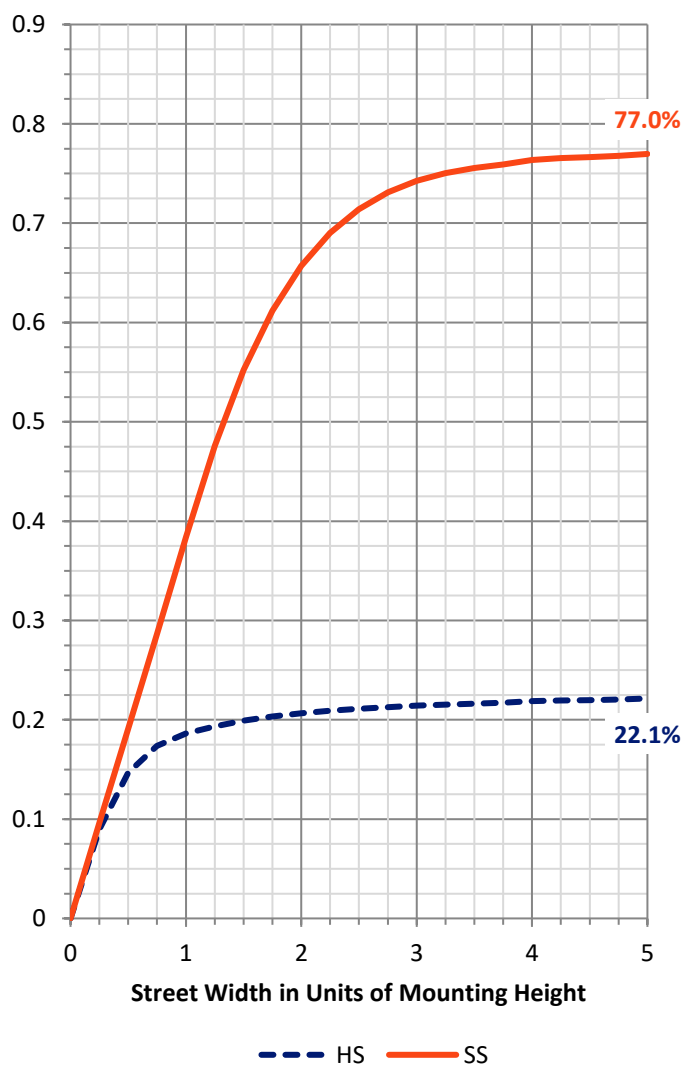
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6018.1	0.0	6018.1
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	20517.9	0.0	20517.9
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	26536.0	0.0	26536.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	269.6	1.0
10°-20°	856.3	3.2
20°-30°	1533.9	5.8
30°-40°	2307.4	8.7
40°-50°	3736.5	14.1
50°-60°	5624.6	21.2
60°-70°	6619.5	24.9
70°-80°	4693.8	17.7
80°-90°	894.4	3.4
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°	26536.0	100.0
0°-180°	26536.0	100.0

**Coefficient of Utilization**



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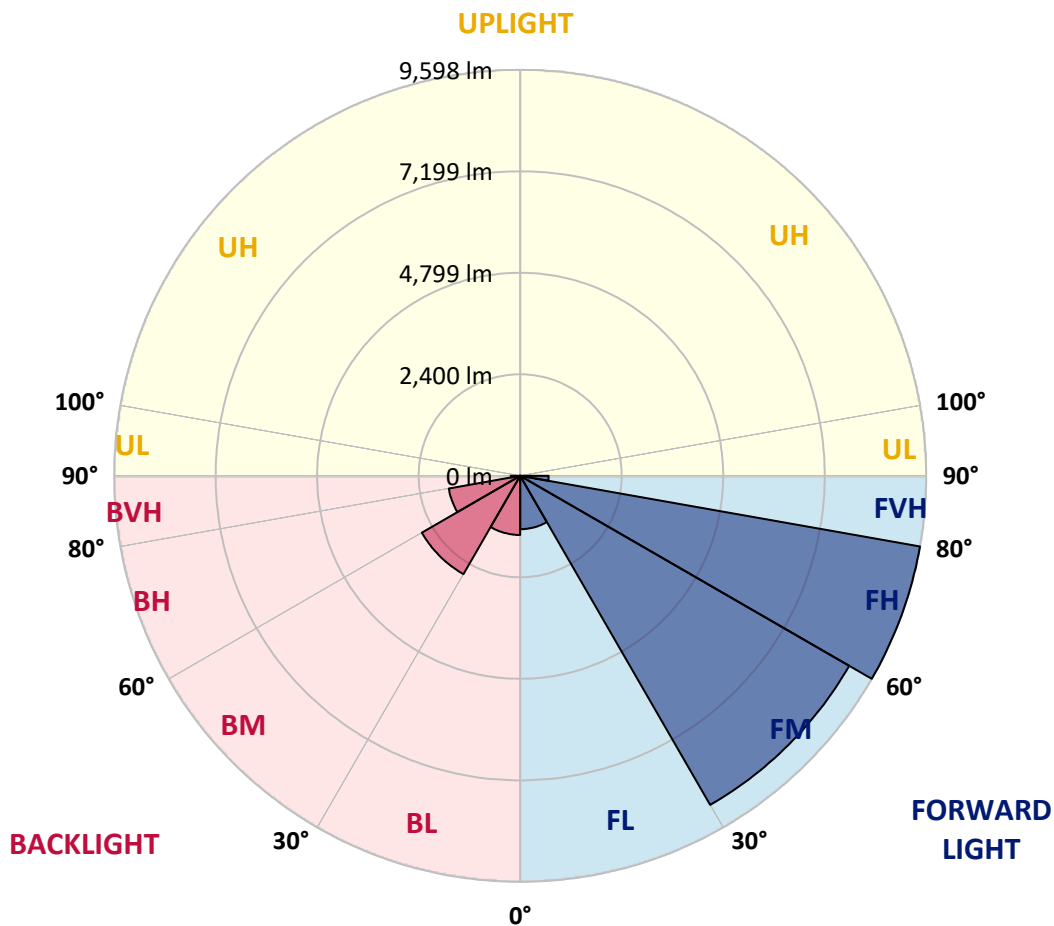
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1261.9	4.8			
FM (30°-60°)	8983.2	33.9			
FH (60°-80°)	9598.2	36.2			G4/12000
FVH (80°-90°)	674.6	2.5			G4/750
BL (0°-30°)	1397.9	5.3	B3/2500		
BM (30°-60°)	2685.2	10.1	B3/5000		
BH (60°-80°)	1715.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	219.8	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-G4**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2693.9	2679.9	2683.4	2683.4	2697.4	2704.4	2707.9	2718.4	2725.4	2742.9	2767.5
5°	2567.8	2557.3	2560.8	2564.3	2588.8	2613.3	2634.3	2648.4	2669.4	2697.4	2732.4
7.5°	2476.7	2469.7	2473.2	2480.2	2501.2	2529.2	2564.3	2585.3	2616.8	2669.4	2728.9
10°	2410.1	2410.1	2413.6	2427.7	2448.7	2483.7	2511.7	2536.3	2599.3	2693.9	2785.0
12.5°	2357.6	2357.6	2368.1	2396.1	2431.2	2466.2	2532.7	2560.8	2644.8	2774.5	2883.1
15°	2354.1	2357.6	2361.1	2385.6	2424.2	2501.2	2599.3	2641.3	2742.9	2897.1	3023.2
17.5°	2410.1	2413.6	2399.6	2406.6	2452.2	2560.8	2690.4	2739.4	2869.0	3037.2	3166.8
20°	2581.8	2581.8	2539.8	2501.2	2532.7	2651.9	2799.0	2848.0	2991.7	3177.3	3306.9
22.5°	2932.1	2949.6	2851.5	2767.5	2718.4	2785.0	2918.1	2970.6	3131.8	3331.5	3461.1
25°	3356.0	3373.5	3240.4	3121.3	3030.2	3019.7	3107.3	3163.3	3296.4	3503.1	3611.7
27.5°	3765.8	3734.3	3611.7	3499.6	3384.0	3289.4	3356.0	3405.0	3559.2	3716.8	3783.4
30°	4088.1	4063.6	3944.5	3863.9	3755.3	3632.7	3594.2	3646.7	3772.8	3920.0	3955.0
32.5°	4445.4	4427.9	4308.8	4203.7	4112.6	3997.0	3913.0	3937.5	4007.6	4112.6	4133.7
35°	4900.8	4939.4	4813.3	4599.6	4498.0	4385.9	4326.3	4333.3	4385.9	4452.5	4417.4
37.5°	5380.8	5426.3	5433.3	5097.0	4960.4	4858.8	4795.8	4820.3	4883.3	4928.9	4820.3
40°	6270.6	6225.0	6042.9	5794.1	5584.0	5485.9	5398.3	5394.8	5440.3	5520.9	5324.7
42.5°	7451.1	7409.1	7041.2	6719.0	6386.2	6274.1	6102.4	6028.9	6049.9	6151.5	5878.2
45°	8582.6	8565.1	8270.8	7896.0	7496.7	7279.5	6887.1	6708.5	6690.9	6771.5	6445.7
47.5°	9588.0	9510.9	9297.3	9006.5	8964.5	8397.0	7675.3	7433.6	7349.5	7395.1	7030.7
50°	10663.5	10400.7	10106.5	9927.8	10232.6	9703.6	8470.5	8218.3	8011.6	8043.1	7664.8
52.5°	11234.5	10793.1	10600.4	10653.0	11062.8	10859.6	9335.8	9027.5	8694.7	8740.3	8295.4
55°	10744.0	10740.5	10824.6	11150.4	11721.4	11486.7	10159.0	9812.2	9447.9	9458.4	9020.5
57.5°	10071.4	10208.1	10642.4	11360.6	12537.6	12145.3	10968.2	10600.4	10267.6	10215.1	9843.7
60°	9458.4	9609.0	10239.6	11325.6	12821.4	12747.8	11738.9	11416.6	11146.9	10992.8	10709.0
62.5°	8526.6	8638.7	9532.0	11101.4	12583.2	13182.2	12520.1	12299.4	12096.2	11777.5	11640.8
65°	7430.1	7468.6	8411.0	10362.2	12285.4	13350.3	13297.8	13199.7	13003.5	12534.1	12562.1
67.5°	6242.5	6319.6	7146.3	9181.6	11633.8	13273.3	13900.3	13980.9	13749.7	13045.6	13150.7
70°	4977.9	5072.5	5699.6	7549.2	10526.8	12940.5	14457.3	14586.9	14142.0	13213.7	13259.3
72.5°	3079.2	3170.3	3590.7	5244.2	8344.4	11823.0	14629.0	14797.1	14152.6	12989.5	12551.6
75°	1064.9	1075.5	1404.7	2515.2	4953.4	8925.9	14068.5	14464.3	13707.7	12173.3	10922.7
77.5°	486.9	504.4	623.6	1036.9	2196.4	4816.8	11616.3	12607.7	12355.5	10898.2	8407.5
80°	336.3	343.3	430.9	620.1	1268.1	1695.5	7332.0	8624.7	9066.0	8439.0	5387.8
82.5°	252.2	259.2	332.8	420.4	914.3	823.2	2792.0	4007.6	4981.4	4890.3	2252.5
85°	241.7	238.2	259.2	280.2	609.5	490.4	903.8	1240.1	1944.2	1664.0	567.5
87.5°	105.1	115.6	266.2	157.6	318.8	227.7	392.3	458.9	592.0	515.0	203.2
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0	2799.0
2.5°	2778.0	2785.0	2806.0	2837.5	2855.0	2890.1	2914.6	2928.6	2939.1	2942.6	2942.6
5°	2753.4	2767.5	2813.0	2865.5	2914.6	2988.2	3054.7	3093.2	3121.3	3131.8	3135.3
7.5°	2760.4	2795.5	2862.0	2939.1	3002.2	3096.7	3177.3	3254.4	3317.4	3342.0	3342.0
10°	2827.0	2876.1	2967.1	3068.7	3149.3	3247.4	3331.5	3398.0	3471.6	3513.6	3520.6
12.5°	2928.6	2988.2	3107.3	3219.4	3310.4	3387.5	3464.6	3513.6	3548.6	3580.2	3587.2
15°	3072.2	3145.8	3264.9	3380.5	3461.1	3510.1	3531.1	3531.1	3527.6	3531.1	3538.1
17.5°	3215.9	3285.9	3405.0	3520.6	3559.2	3531.1	3506.6	3499.6	3496.1	3489.1	3492.6
20°	3356.0	3422.5	3524.1	3611.7	3580.2	3482.1	3450.6	3447.1	3436.5	3429.5	3422.5
22.5°	3496.1	3545.1	3629.2	3660.7	3534.6	3394.5	3356.0	3335.0	3320.9	3303.4	3285.9
25°	3657.2	3671.3	3734.3	3685.3	3422.5	3233.4	3177.3	3145.8	3131.8	3114.3	3100.3
27.5°	3807.9	3807.9	3818.4	3646.7	3257.9	3019.7	2935.6	2879.6	2876.1	2872.5	2869.0
30°	3944.5	3927.0	3892.0	3531.1	3044.2	2756.9	2630.8	2574.8	2595.8	2613.3	2616.8
32.5°	4105.6	4070.6	3972.5	3373.5	2788.5	2462.7	2308.5	2284.0	2308.5	2329.6	2315.6
35°	4357.9	4294.8	4056.6	3191.3	2543.3	2192.9	2045.8	2010.8	2003.8	2000.3	1972.3
37.5°	4718.7	4610.1	4123.2	2995.2	2301.5	1954.7	1846.1	1772.6	1706.0	1636.0	1625.4
40°	5160.1	4974.4	4168.7	2771.0	2045.8	1755.1	1639.5	1544.9	1432.8	1310.2	1296.2
42.5°	5643.5	5366.8	4189.7	2522.2	1821.6	1590.4	1446.8	1327.7	1201.6	1107.0	1089.5
45°	6165.5	5790.6	4172.2	2284.0	1639.5	1450.3	1289.1	1159.5	1057.9	991.4	977.4
47.5°	6673.4	6277.6	4123.2	2094.9	1499.3	1331.2	1166.5	1047.4	970.4	896.8	879.3
50°	7325.0	6743.5	4063.6	1947.7	1345.2	1212.1	1089.5	963.4	875.8	840.7	833.7
52.5°	8046.6	7209.4	3993.5	1762.1	1194.6	1117.5	1040.4	928.3	900.3	833.7	823.2
55°	8827.8	7762.9	3979.5	1527.4	1061.4	1050.9	991.4	959.9	966.9	833.7	816.2
57.5°	9651.1	8354.9	4011.1	1292.6	952.8	991.4	1012.4	987.9	977.4	851.3	816.2
60°	10509.3	8925.9	3916.5	1075.5	868.8	942.3	1036.9	973.9	896.8	844.2	819.7
62.5°	11343.1	9405.8	3506.6	921.3	805.7	928.3	1022.9	921.3	833.7	833.7	823.2
65°	11949.1	9619.5	2742.9	809.2	763.7	910.8	998.4	886.3	816.2	840.7	826.7
67.5°	12019.2	9398.8	1842.6	721.6	728.6	879.3	942.3	854.8	798.7	861.8	840.7
70°	11588.3	8824.3	1128.0	655.1	683.1	823.2	893.3	823.2	774.2	844.2	812.7
72.5°	10470.8	7752.4	795.2	599.0	634.1	770.7	847.8	795.2	739.2	763.7	732.1
75°	8589.6	6007.8	630.6	546.5	585.0	721.6	809.2	753.2	697.1	686.6	665.6
77.5°	6084.9	3849.9	508.0	504.4	532.5	662.1	756.7	704.1	648.1	627.1	613.0
80°	3499.6	1888.2	437.9	455.4	483.4	602.5	693.6	648.1	595.5	564.0	543.0
82.5°	1338.2	658.6	385.3	395.9	427.4	539.5	630.6	592.0	539.5	567.5	476.4
85°	434.4	360.8	315.3	325.8	357.3	448.4	557.0	525.5	465.9	413.4	381.8
87.5°	192.7	196.2	168.1	185.7	224.2	297.8	406.4	385.3	339.8	283.8	273.2
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)