

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: P400135

Luminaire Tested: **ARCH-L-PA3-240-727-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-240-727-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27318 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

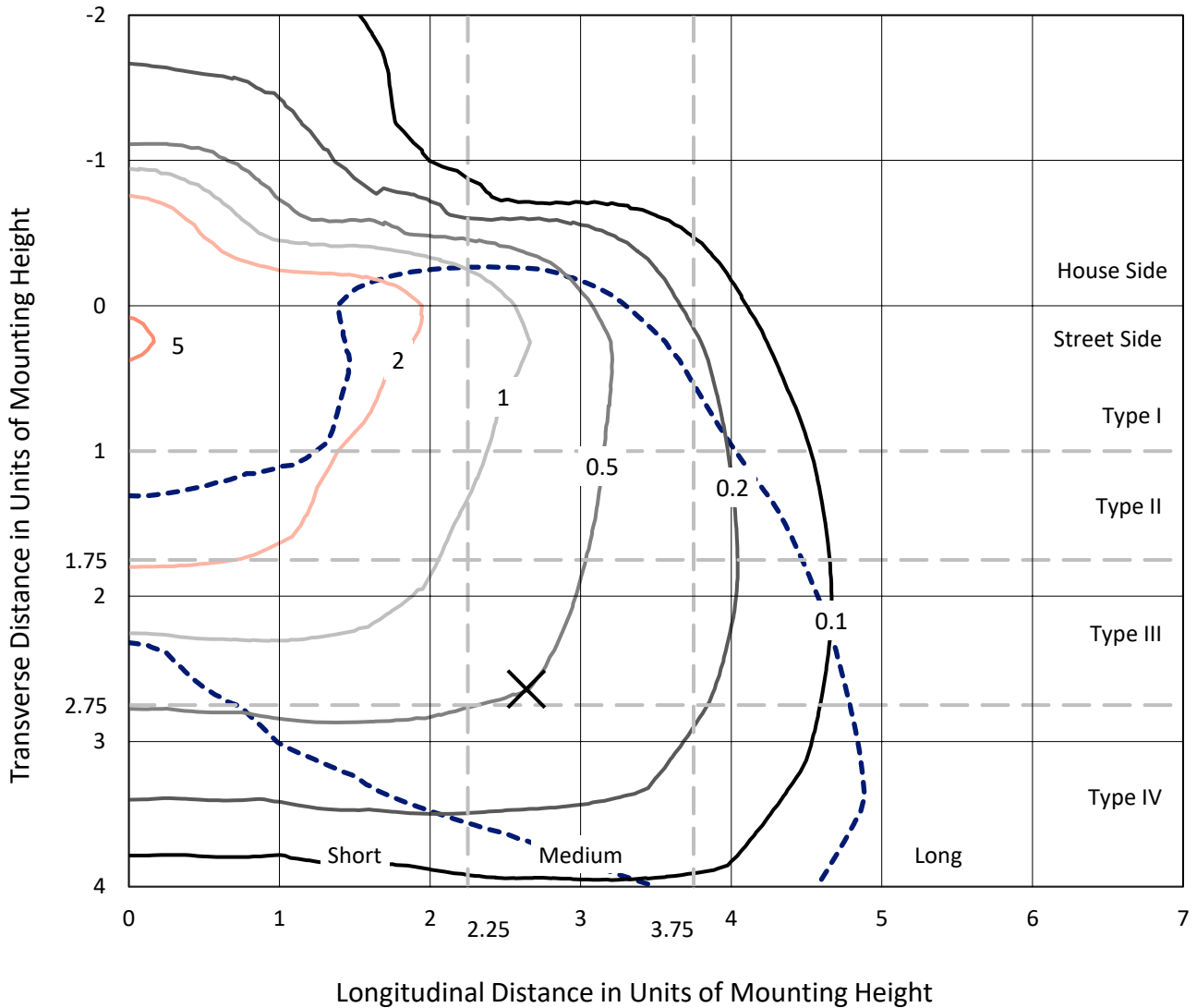
Input Watts (W): 242  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

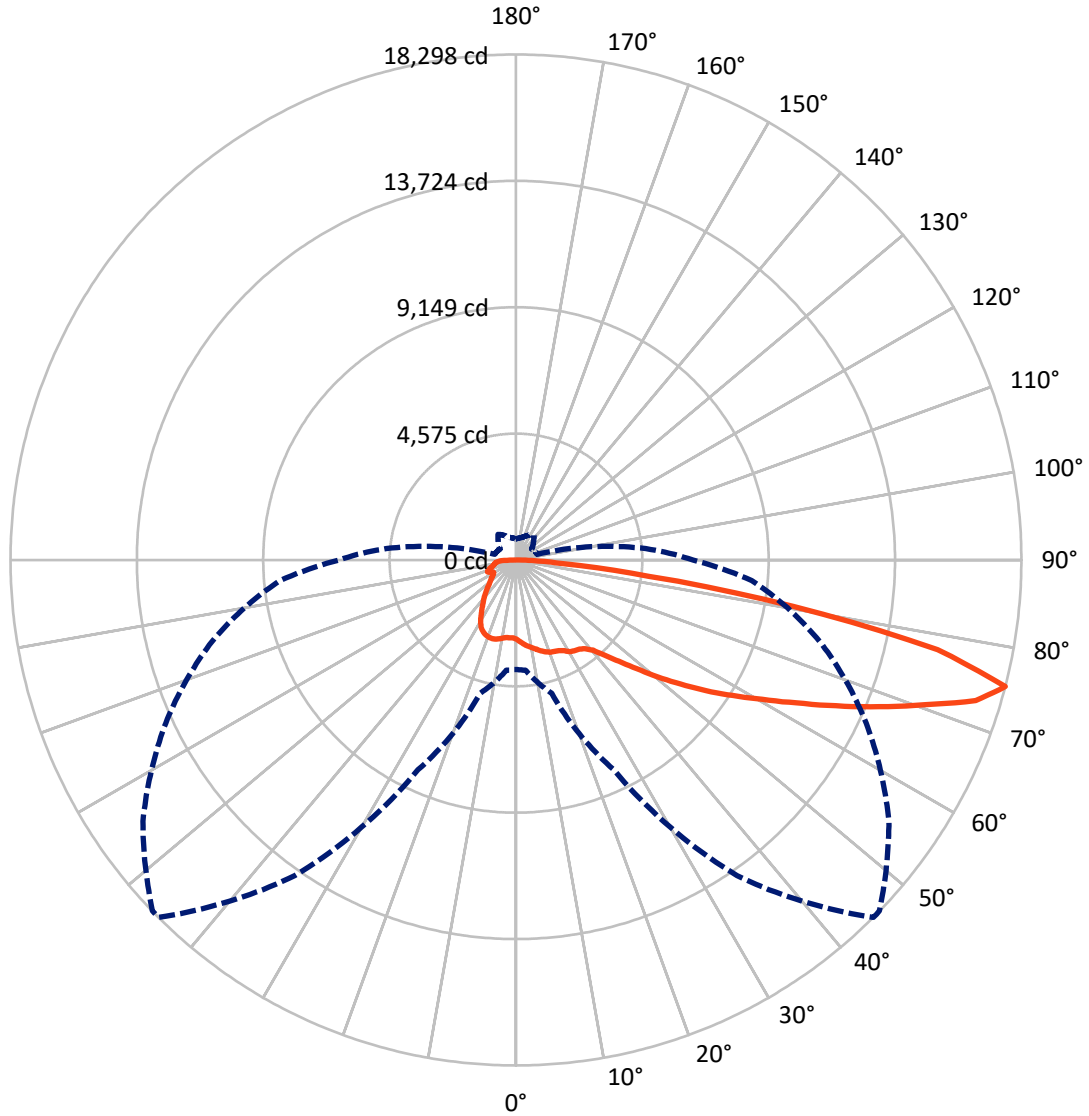
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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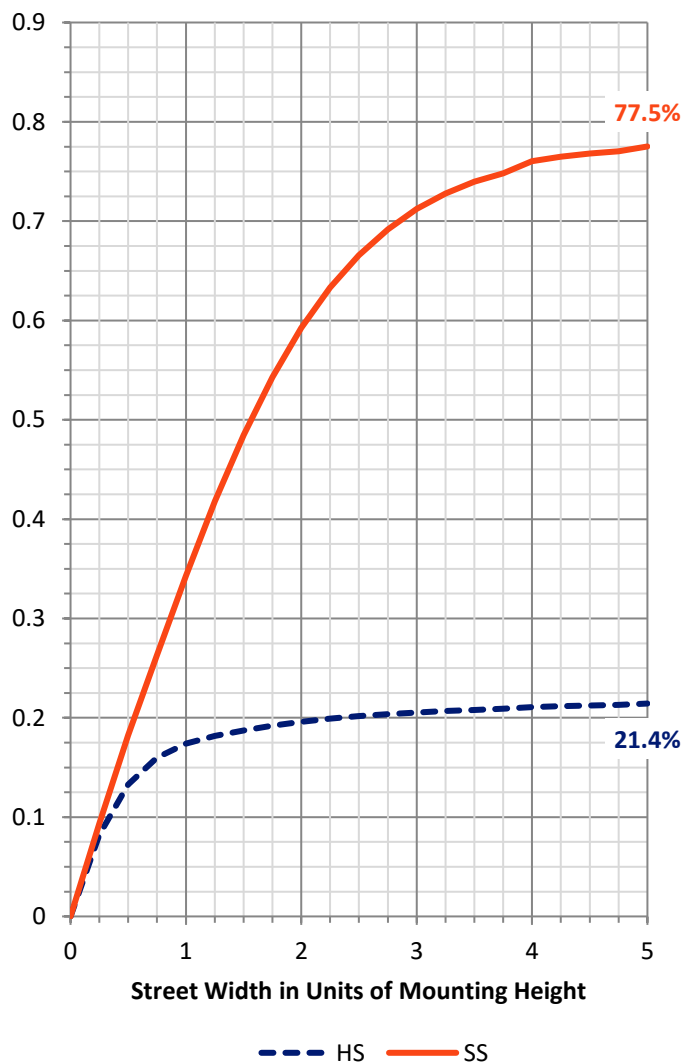
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6037.1	0.0	6037.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	21280.9	0.0	21280.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	27318.0	0.0	27318.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.8	1.0
10°-20°	903.0	3.3
20°-30°	1539.4	5.6
30°-40°	2156.9	7.9
40°-50°	3168.8	11.6
50°-60°	5043.1	18.5
60°-70°	7173.9	26.3
70°-80°	6006.7	22.0
80°-90°	1042.5	3.8
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°	27318.0	100.0
0°-180°	27318.0	100.0

**Coefficient of Utilization**

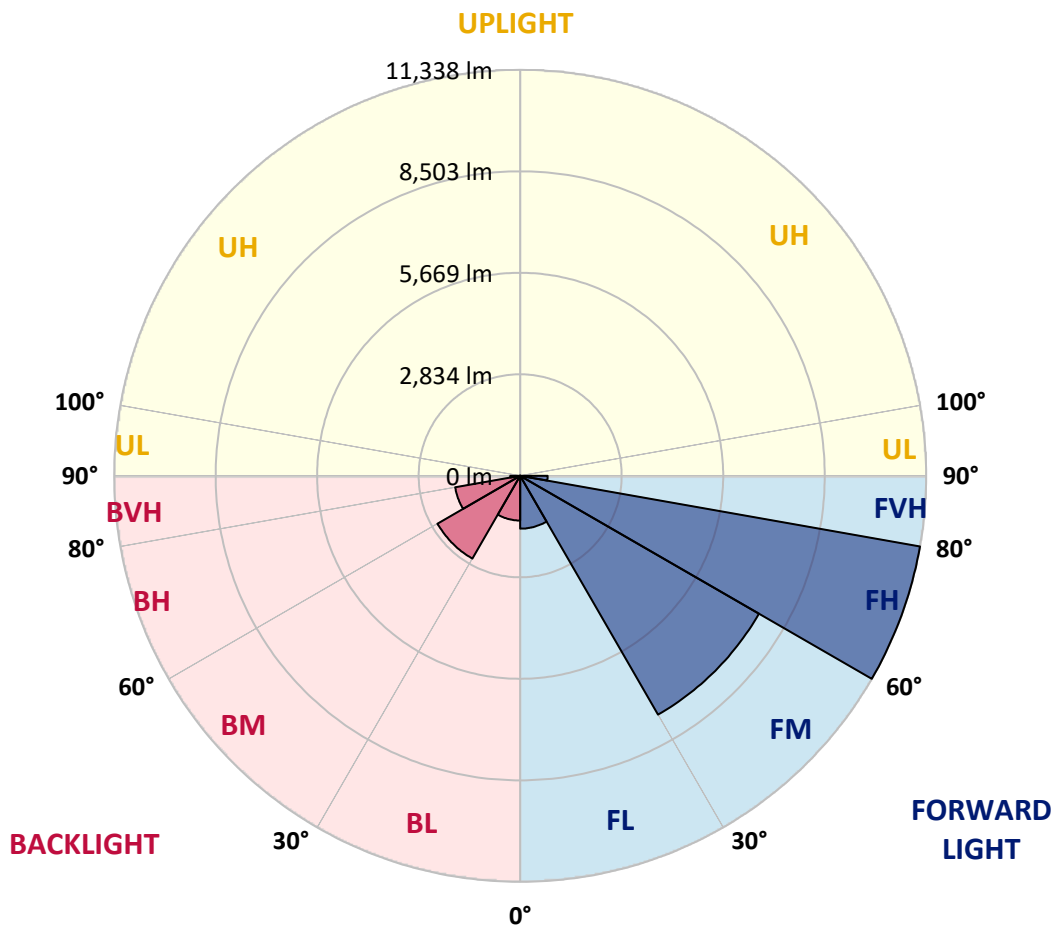


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1476.7	5.4			
FM (30°-60°)	7700.1	28.2			
FH (60°-80°)	11337.7	41.5			G4/12000
FVH (80°-90°)	766.4	2.8			G5
BL (0°-30°)	1249.5	4.6	B3/2500		
BM (30°-60°)	2668.7	9.8	B3/5000		
BH (60°-80°)	1842.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	276.1	1.0			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0
2.5°	3033.2	3018.6	3011.3	3011.3	2982.1	2963.9	2960.2	2934.7	2912.8	2890.9	2872.6
5°	3208.4	3197.5	3175.6	3157.3	3117.2	3066.1	3058.8	3004.0	2949.3	2898.2	2854.4
7.5°	3369.1	3347.2	3321.6	3285.1	3219.4	3150.0	3139.1	3062.4	2985.8	2909.1	2850.7
10°	3504.1	3482.2	3445.7	3394.6	3310.7	3226.7	3215.7	3135.4	3055.1	2963.9	2879.9
12.5°	3631.9	3613.6	3558.9	3489.5	3391.0	3314.3	3303.4	3234.0	3150.0	3047.8	2938.3
15°	3741.4	3723.1	3664.7	3584.4	3471.3	3412.9	3398.3	3332.6	3248.6	3139.1	3025.9
17.5°	3796.1	3796.1	3734.1	3646.5	3540.6	3496.8	3485.9	3405.6	3328.9	3223.0	3109.9
20°	3814.4	3821.7	3777.9	3672.0	3580.8	3562.5	3551.6	3485.9	3398.3	3296.1	3190.2
22.5°	3825.3	3839.9	3803.4	3683.0	3606.3	3595.4	3588.1	3544.3	3474.9	3376.4	3270.5
25°	3861.8	3861.8	3836.3	3701.2	3639.2	3635.5	3635.5	3610.0	3562.5	3478.6	3372.7
27.5°	3916.6	3912.9	3880.1	3741.4	3712.2	3723.1	3719.5	3715.8	3683.0	3599.0	3485.9
30°	4007.8	4007.8	3971.3	3821.7	3803.4	3850.9	3854.5	3861.8	3810.7	3679.3	3588.1
32.5°	4146.5	4131.9	4095.4	3902.0	3872.8	3916.6	3923.9	3920.2	3876.4	3752.3	3708.5
35°	4573.6	4540.7	4409.3	4080.8	3934.8	3960.4	3964.0	3982.3	3989.6	3891.0	3869.1
37.5°	5321.9	5278.1	5077.3	4504.2	4131.9	4069.9	4066.2	4113.7	4153.8	4066.2	4066.2
40°	6135.8	6099.3	5982.5	5234.3	4496.9	4292.5	4277.9	4321.7	4372.8	4310.8	4329.0
42.5°	6836.7	6865.9	6876.8	6008.1	5044.5	4708.6	4668.5	4606.4	4686.7	4632.0	4705.0
45°	7362.3	7347.7	7548.4	6800.2	5752.6	5230.6	5175.9	5008.0	5110.2	5106.5	5267.1
47.5°	7920.7	7895.2	7979.1	7544.8	6559.3	5869.4	5785.4	5537.2	5690.5	5796.4	6062.8
50°	8450.0	8457.3	8486.5	8132.4	7435.3	6646.9	6541.0	6208.8	6427.8	6650.5	7026.5
52.5°	9139.9	9088.8	9052.3	8818.7	8417.2	7457.2	7387.8	7008.2	7314.8	7577.6	8077.7
55°	9742.1	9709.3	9687.4	9676.4	9238.4	8351.5	8278.5	7884.2	8325.9	8512.1	9249.4
57.5°	10384.6	10366.3	10483.1	10669.3	10494.1	9260.3	9183.7	8804.1	9296.8	9428.2	10519.6
60°	10855.4	10866.4	11187.6	11662.1	11541.7	10245.9	10154.6	9818.8	10242.2	10359.0	11789.9
62.5°	10859.1	10968.6	11713.2	12563.7	12702.4	11381.0	11275.2	10910.2	11213.1	11213.1	12928.7
65°	9822.5	9946.6	11618.3	12786.3	13877.7	12731.6	12629.4	12056.3	12169.5	12016.2	13998.2
67.5°	8789.5	8935.5	10508.7	12804.6	14702.6	14177.0	14056.6	13202.5	13009.0	12622.1	14746.5
70°	8103.2	8205.5	9519.5	12567.3	15199.1	15688.2	15596.9	14290.2	13669.7	13129.5	14589.5
72.5°	6822.1	6785.6	8041.2	11439.4	15476.5	17403.7	17327.1	15472.8	14242.7	12888.5	12443.2
75°	3960.4	4004.2	4989.7	8380.7	13950.7	18298.0	18290.7	16483.9	13990.9	11384.7	8574.1
77.5°	1142.5	1175.3	1638.9	3683.0	8822.3	15607.9	16107.9	15075.0	11826.4	8114.2	4445.8
80°	500.1	525.6	711.8	1226.4	3799.8	10194.8	10632.8	10194.8	7132.3	3723.1	1744.8
82.5°	295.7	313.9	463.6	759.2	1821.4	4851.0	5442.3	4752.4	3077.0	1580.5	722.7
85°	167.9	175.2	266.5	481.8	1146.1	1697.3	1905.4	1784.9	1500.2	897.9	379.6
87.5°	76.7	80.3	131.4	226.3	642.4	573.1	595.0	788.4	868.7	547.5	189.8
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°	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0	2869.0
2.5°	2865.3	2854.4	2832.5	2825.2	2814.2	2817.9	2821.5	2821.5	2825.2	2814.2	2814.2
5°	2836.1	2817.9	2796.0	2796.0	2796.0	2825.2	2850.7	2865.3	2872.6	2872.6	2865.3
7.5°	2825.2	2803.3	2777.7	2785.0	2792.3	2828.8	2876.3	2923.7	2938.3	2938.3	2931.0
10°	2847.1	2825.2	2806.9	2817.9	2836.1	2865.3	2901.8	2945.6	2982.1	2985.8	2982.1
12.5°	2898.2	2872.6	2854.4	2876.3	2898.2	2916.4	2934.7	2952.9	3000.4	3007.7	3007.7
15°	2982.1	2956.6	2934.7	2952.9	2960.2	2960.2	2960.2	2960.2	3007.7	3015.0	3015.0
17.5°	3066.1	3044.2	3022.3	3025.9	3004.0	2974.8	2963.9	2960.2	2985.8	3007.7	3011.3
20°	3146.4	3128.1	3106.2	3069.7	3015.0	2960.2	2942.0	2942.0	2956.6	2989.4	2989.4
22.5°	3234.0	3212.1	3175.6	3091.6	3000.4	2923.7	2905.5	2916.4	2934.7	2978.5	2974.8
25°	3332.6	3303.4	3241.3	3084.3	2952.9	2861.7	2865.3	2898.2	2931.0	2978.5	2978.5
27.5°	3442.1	3401.9	3277.8	3025.9	2847.1	2759.5	2792.3	2869.0	2916.4	2967.5	2974.8
30°	3562.5	3526.0	3307.0	2923.7	2675.5	2595.2	2675.5	2799.6	2872.6	2920.1	2931.0
32.5°	3708.5	3679.3	3332.6	2792.3	2452.9	2383.5	2500.3	2653.6	2770.4	2825.2	2836.1
35°	3891.0	3861.8	3365.4	2642.7	2244.8	2171.8	2277.7	2434.6	2587.9	2657.3	2679.2
37.5°	4128.3	4084.5	3394.6	2482.1	2069.6	1985.7	2036.8	2179.1	2317.8	2412.7	2438.3
40°	4431.2	4361.9	3420.2	2299.6	1916.3	1821.4	1839.7	1909.0	1989.3	2073.3	2106.1
42.5°	4858.3	4719.6	3423.8	2106.1	1759.4	1671.8	1664.5	1686.4	1686.4	1686.4	1697.3
45°	5453.3	5190.5	3431.1	1923.6	1598.7	1507.5	1485.6	1478.3	1423.5	1317.7	1310.4
47.5°	6205.2	5807.3	3464.0	1770.3	1430.8	1350.5	1321.3	1292.1	1189.9	1080.4	1058.5
50°	7168.8	6522.7	3529.7	1624.3	1288.5	1233.7	1197.2	1127.9	1014.7	930.8	908.9
52.5°	8278.5	7373.2	3591.7	1471.0	1182.6	1146.1	1102.3	1018.4	897.9	846.8	839.5
55°	9552.3	8322.3	3715.8	1335.9	1091.4	1065.8	1025.7	945.4	854.1	817.6	814.0
57.5°	10855.4	9384.4	3891.0	1215.5	1003.8	989.2	989.2	919.8	861.4	846.8	846.8
60°	12111.1	10297.0	3756.0	1102.3	923.5	930.8	1000.1	981.9	938.1	956.3	967.3
62.5°	13085.7	10833.5	3047.8	1011.1	865.1	930.8	1109.6	1109.6	1058.5	1051.2	1051.2
65°	13501.8	10826.2	2142.6	941.7	843.2	1022.0	1237.4	1179.0	1043.9	992.8	981.9
67.5°	13395.9	10351.7	1478.3	894.3	835.9	1116.9	1295.8	1131.5	978.2	934.4	901.6
70°	12465.1	9347.9	1138.8	850.5	824.9	1076.8	1277.5	1076.8	927.1	887.0	857.8
72.5°	10056.1	7497.3	945.4	806.7	781.1	996.5	1215.5	1025.7	887.0	843.2	814.0
75°	6413.2	4715.9	799.4	748.3	697.2	894.3	1131.5	974.6	843.2	784.8	762.9
77.5°	3084.3	2033.1	697.2	678.9	627.8	828.6	1047.6	908.9	784.8	737.3	722.7
80°	1248.3	930.8	605.9	609.6	576.7	788.4	989.2	846.8	726.4	675.3	649.7
82.5°	649.7	540.2	511.0	525.6	525.6	751.9	945.4	795.7	675.3	653.4	569.4
85°	350.4	335.8	394.2	423.4	456.3	678.9	879.7	741.0	616.9	529.3	511.0
87.5°	171.6	219.0	222.7	255.5	317.6	543.9	741.0	620.5	514.7	427.1	419.8
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)