

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: P399870

Luminaire Tested: **ARCH-L-PA3-200-750-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-200-750-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28928 lumens  
Efficiency: N/A  
Efficacy: 143.9 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

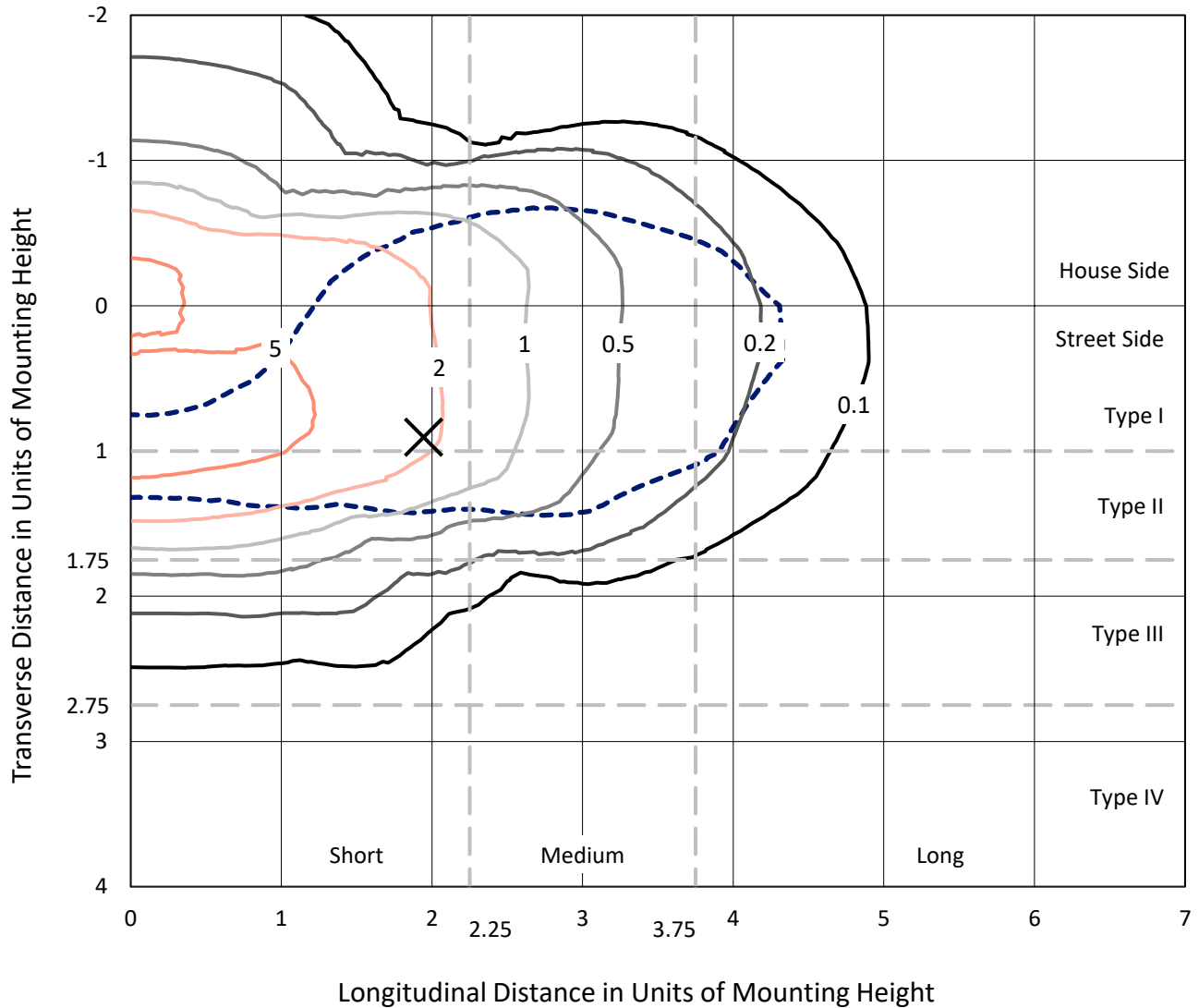
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

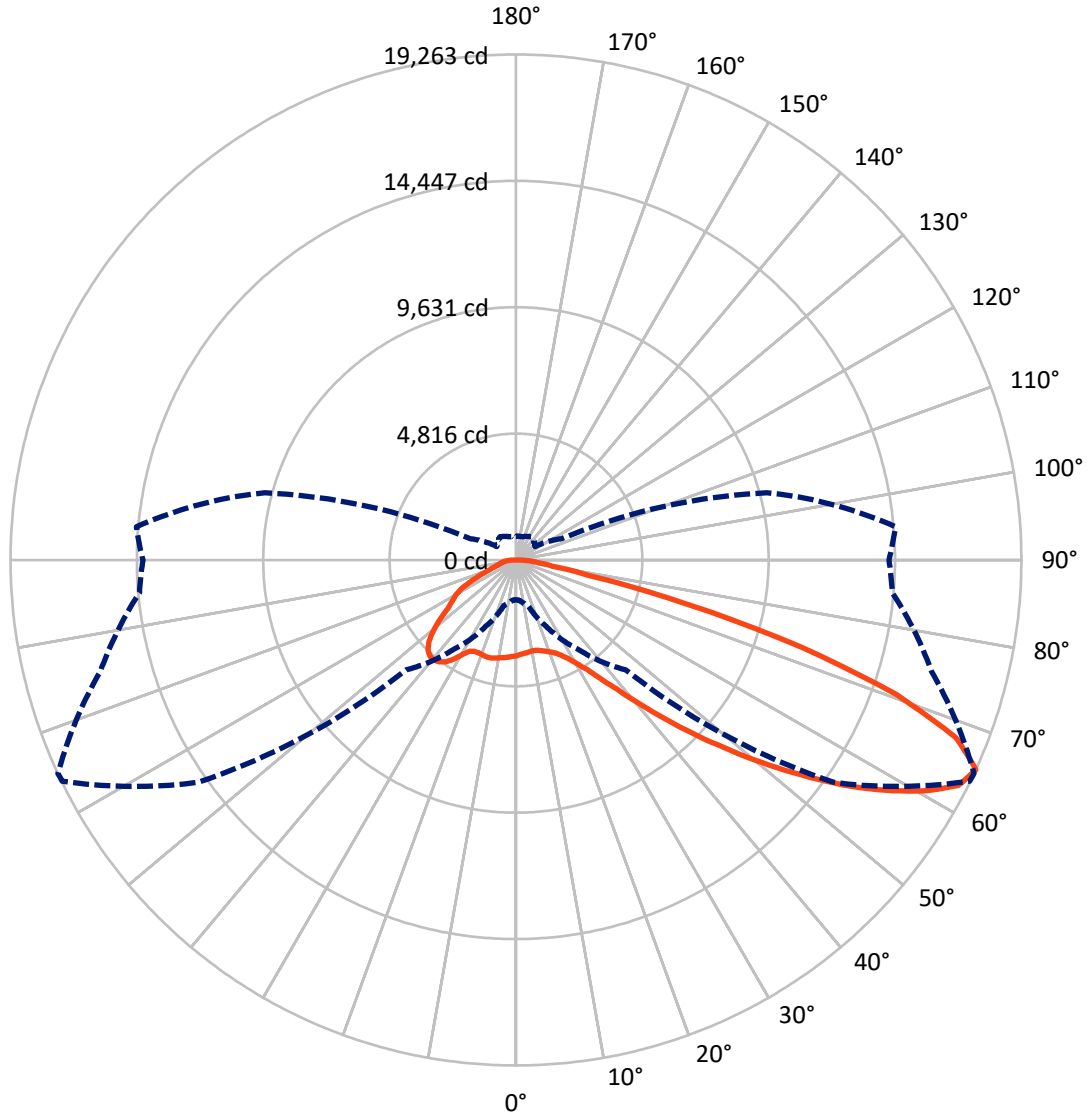
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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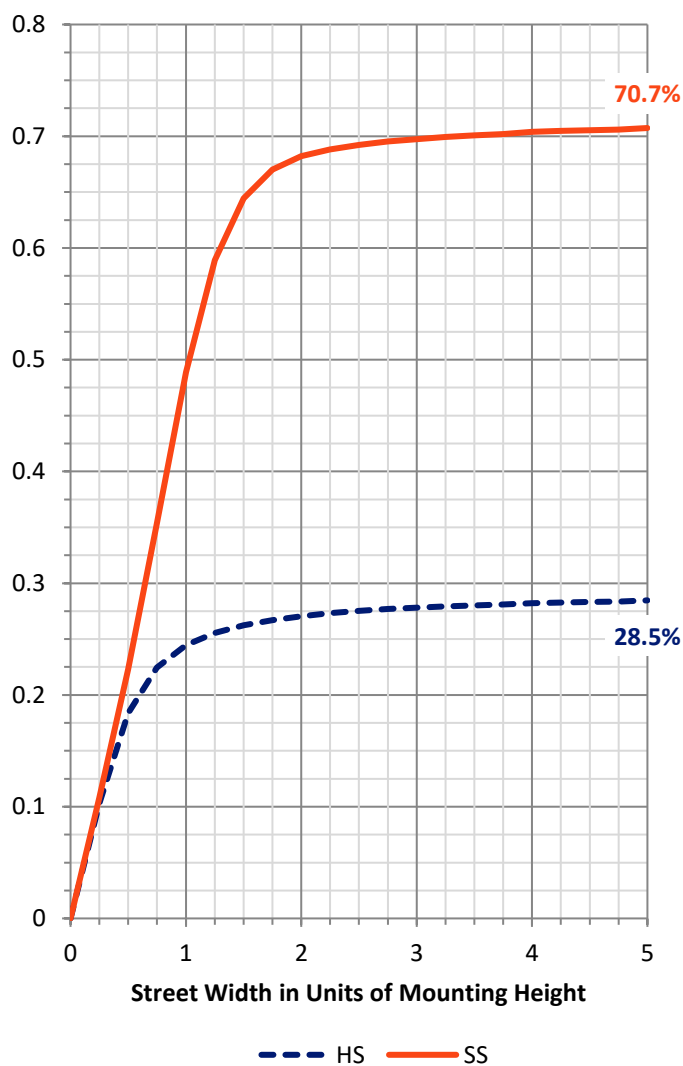
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8363.5	0.0	8363.5
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	20564.5	0.0	20564.5
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	28928.0	0.0	28928.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.2	1.2
10°-20°	1039.7	3.6
20°-30°	1846.9	6.4
30°-40°	3124.4	10.8
40°-50°	5439.0	18.8
50°-60°	7029.0	24.3
60°-70°	6150.7	21.3
70°-80°	3345.6	11.6
80°-90°	604.5	2.1
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°	28928.0	100.0
0°-180°	28928.0	100.0

**Coefficient of Utilization**

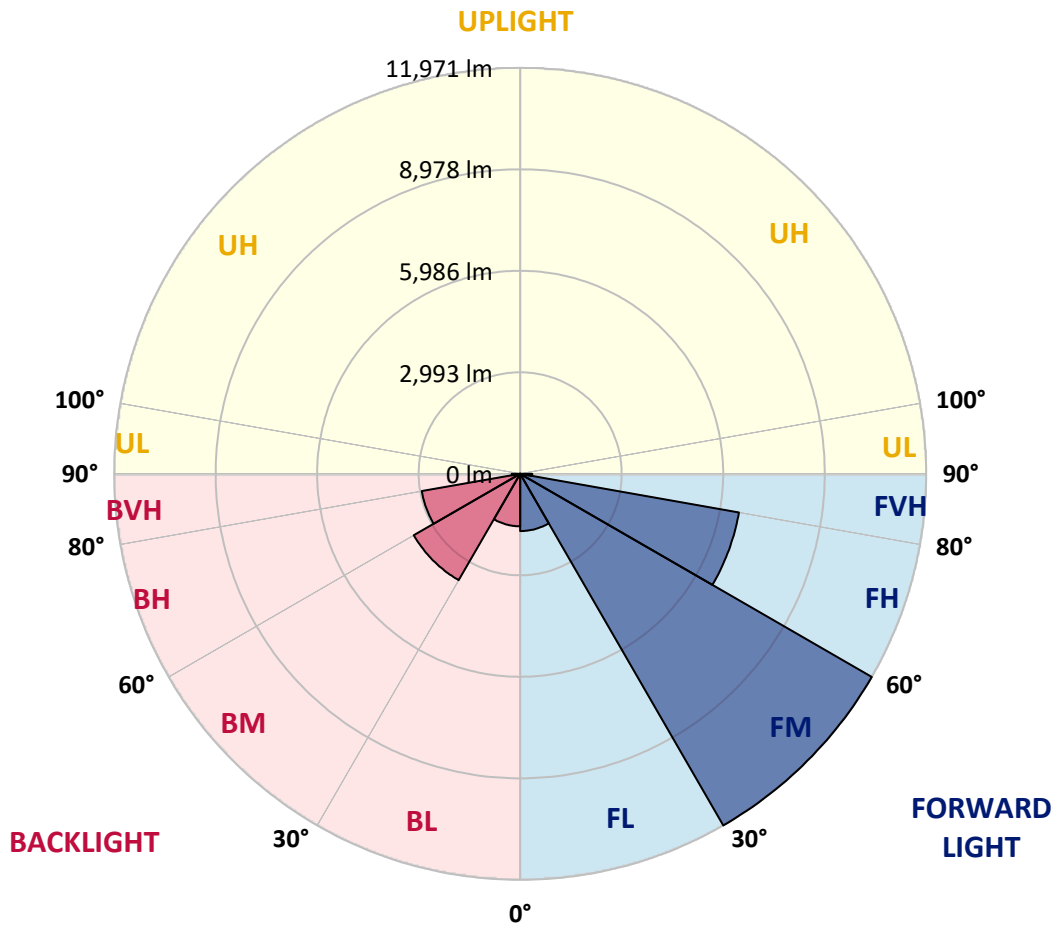


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.9	5.8			
FM (30°-60°)	11971.2	41.4			
FH (60°-80°)	6549.7	22.6			G3/7500
FVH (80°-90°)	355.7	1.2			G3/500
BL (0°-30°)	1547.0	5.3	B3/2500		
BM (30°-60°)	3621.2	12.5	B3/5000		
BH (60°-80°)	2946.6	10.2	B4/5000		G4/5000
BVH (80°-90°)	248.8	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3
2.5°	3590.6	3586.8	3579.2	3586.8	3590.6	3598.2	3594.4	3602.0	3598.2	3609.6	3628.7
5°	3499.2	3491.6	3487.8	3506.8	3518.3	3537.3	3544.9	3571.6	3567.8	3586.8	3617.3
7.5°	3396.4	3396.4	3392.6	3415.5	3430.7	3464.9	3491.6	3537.3	3541.1	3575.4	3609.6
10°	3316.5	3320.3	3316.5	3335.5	3358.3	3400.2	3445.9	3510.6	3514.4	3563.9	3598.2
12.5°	3286.0	3286.0	3286.0	3312.6	3343.1	3400.2	3453.5	3522.1	3529.7	3583.0	3613.4
15°	3327.9	3331.7	3324.1	3350.7	3385.0	3453.5	3503.0	3575.4	3583.0	3632.5	3651.5
17.5°	3476.4	3491.6	3472.6	3487.8	3480.2	3533.5	3579.2	3651.5	3655.3	3697.2	3704.8
20°	3769.6	3784.8	3754.3	3735.3	3666.8	3662.9	3682.0	3739.1	3739.1	3765.8	3746.7
22.5°	4222.7	4237.9	4184.6	4112.2	3948.5	3868.6	3826.7	3853.3	3849.5	3860.9	3811.4
25°	4824.3	4820.5	4755.7	4622.5	4359.7	4165.6	4062.7	4020.9	4020.9	3998.0	3937.1
27.5°	5570.6	5513.5	5399.2	5239.3	4873.8	4603.4	4382.6	4276.0	4256.9	4188.4	4074.2
30°	6366.4	6324.5	6160.8	5928.5	5505.8	5159.3	4793.8	4580.6	4569.2	4420.7	4249.3
32.5°	7303.0	7234.5	7051.7	6773.8	6267.4	5780.0	5323.1	4999.4	4980.4	4744.3	4508.2
35°	8506.3	8449.1	8095.0	7817.1	7166.0	6526.3	5985.6	5555.3	5540.1	5250.7	4949.9
37.5°	9949.4	9800.9	9458.2	8936.5	8251.1	7493.4	6808.1	6267.4	6248.3	5928.5	5547.7
40°	11236.3	11103.1	10798.5	10318.7	9583.8	8742.3	7813.3	7158.4	7139.3	6750.9	6271.2
42.5°	12188.2	12096.9	11898.9	11620.9	11095.5	10585.2	9096.4	8235.9	8201.6	7699.0	7101.2
45°	12740.4	12668.0	12553.8	12622.3	12614.7	12519.5	10627.1	9519.1	9408.7	8757.6	8026.5
47.5°	12607.1	12542.4	12588.0	13121.1	13856.0	14408.1	12409.1	10832.7	10684.2	9835.1	9012.7
50°	11643.8	11670.4	11910.3	12930.7	14579.4	15805.5	14385.3	12329.1	12131.1	10920.3	9949.4
52.5°	9888.4	9953.2	10535.7	11963.6	14499.5	16711.7	16171.0	13875.0	13612.3	11978.8	10802.3
55°	7855.2	8018.9	8772.8	10273.0	13456.2	16776.4	17518.9	15428.5	15139.2	12972.6	11544.8
57.5°	5810.5	6054.1	6926.1	8304.5	11457.2	15752.2	18192.9	16913.5	16563.2	13958.8	12329.1
60°	3685.8	3834.3	4839.5	6465.4	8769.0	13246.8	18105.3	18177.7	17873.0	14941.2	13147.8
62.5°	2353.1	2425.5	2931.9	4611.0	6130.3	9808.5	17149.6	19133.4	18927.8	15836.0	13924.5
65°	1511.6	1542.1	1801.0	2836.7	4173.2	5920.9	14769.8	19236.2	19262.8	16395.7	14404.3
67.5°	1229.9	1245.1	1340.3	1751.5	2950.9	3270.8	10288.2	17774.0	18097.7	16251.0	14240.6
70°	1119.4	1138.5	1237.5	1397.4	2284.6	2257.9	4980.4	14872.6	15401.9	15417.1	13513.3
72.5°	944.3	970.9	1104.2	1321.3	1766.7	1782.0	2109.4	10592.8	11373.4	13779.8	12420.5
75°	788.2	803.4	917.6	1165.1	1496.4	1424.1	1481.2	5616.3	6743.3	11049.8	11259.2
77.5°	639.7	654.9	738.7	929.1	1328.9	1108.0	1165.1	2326.5	2874.8	7501.0	9203.1
80°	456.9	472.1	567.3	723.5	1005.2	997.6	864.3	1283.2	1393.6	4055.1	5978.0
82.5°	327.5	338.9	430.3	517.8	696.8	1001.4	651.1	871.9	913.8	1797.2	2410.2
85°	220.8	220.8	297.0	342.7	449.3	632.1	525.5	590.2	616.8	852.9	651.1
87.5°	95.2	95.2	159.9	175.2	236.1	293.2	392.2	297.0	304.6	460.7	266.5
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°	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3	3655.3
2.5°	3640.1	3643.9	3651.5	3674.4	3689.6	3712.4	3723.9	3739.1	3739.1	3731.5	3735.3
5°	3632.5	3643.9	3670.6	3712.4	3739.1	3781.0	3811.4	3834.3	3841.9	3834.3	3838.1
7.5°	3628.7	3647.7	3693.4	3754.3	3792.4	3845.7	3887.6	3914.3	3933.3	3925.7	3929.5
10°	3617.3	3647.7	3704.8	3781.0	3838.1	3891.4	3929.5	3940.9	3952.3	3944.7	3940.9
12.5°	3632.5	3666.8	3727.7	3819.1	3883.8	3925.7	3937.1	3918.1	3891.4	3876.2	3872.4
15°	3662.9	3697.2	3758.1	3853.3	3910.4	3925.7	3899.0	3838.1	3777.2	3742.9	3739.1
17.5°	3704.8	3727.7	3777.2	3860.9	3906.6	3887.6	3834.3	3761.9	3716.3	3689.6	3693.4
20°	3731.5	3731.5	3769.6	3834.3	3872.4	3857.1	3792.4	3712.4	3640.1	3605.8	3594.4
22.5°	3769.6	3750.5	3754.3	3811.4	3864.8	3841.9	3704.8	3563.9	3461.1	3423.1	3419.3
25°	3872.4	3819.1	3784.8	3819.1	3944.7	3758.1	3484.0	3320.3	3225.1	3190.8	3194.6
27.5°	3998.0	3925.7	3853.3	3910.4	4009.4	3567.8	3202.2	3015.6	2958.5	2931.9	2943.3
30°	4123.7	4028.5	3933.3	4138.9	3963.8	3270.8	2840.5	2657.7	2608.2	2589.2	2604.4
32.5°	4355.9	4199.8	4085.6	4443.5	3822.9	2931.9	2448.3	2280.8	2235.1	2212.2	2204.6
35°	4744.3	4546.3	4432.1	4710.0	3624.9	2554.9	2090.4	1972.4	1922.9	1873.4	1865.7
37.5°	5304.0	5064.2	4961.4	4862.4	3346.9	2181.8	1816.2	1736.3	1663.9	1587.8	1584.0
40°	5974.2	5662.0	5585.8	4930.9	2962.3	1831.5	1625.9	1549.7	1458.3	1386.0	1389.8
42.5°	6747.1	6347.3	6183.6	4911.9	2486.4	1644.9	1488.8	1405.0	1325.1	1260.3	1256.5
45°	7573.4	7120.3	6743.3	4778.6	2014.2	1515.4	1405.0	1306.0	1226.1	1153.7	1146.1
47.5°	8487.2	7980.8	7261.2	4519.7	1663.9	1424.1	1355.5	1214.6	1142.3	1096.6	1096.6
50°	9408.7	8803.3	7737.1	4127.5	1458.3	1355.5	1283.2	1165.1	1108.0	1069.9	1069.9
52.5°	10196.9	9660.0	8129.3	3659.1	1328.9	1298.4	1233.7	1142.3	1081.4	1047.1	1043.3
55°	10962.2	10455.8	8479.6	3194.6	1222.3	1222.3	1222.3	1123.3	1054.7	1024.3	1020.4
57.5°	11723.7	11293.5	8845.1	2890.0	1127.1	1157.5	1199.4	1100.4	1031.9	1005.2	1001.4
60°	12584.2	12298.7	9267.8	2676.8	1043.3	1089.0	1168.9	1073.8	993.8	970.9	967.1
62.5°	13498.1	13498.1	9652.4	2376.0	967.1	1031.9	1123.3	1039.5	959.5	940.5	936.7
65°	14213.9	14522.3	9899.9	1926.7	891.0	974.8	1069.9	993.8	913.8	910.0	902.4
67.5°	14297.7	14781.2	9743.7	1454.5	822.4	913.8	1016.6	944.3	868.1	868.1	856.7
70°	13696.1	14187.3	9256.4	1089.0	773.0	852.9	948.1	883.4	811.0	818.6	799.6
72.5°	12690.9	12812.7	8045.5	860.5	715.8	788.2	864.3	814.8	750.1	750.1	723.5
75°	11365.8	10688.0	5844.7	719.6	647.3	712.0	780.6	738.7	681.6	662.5	647.3
77.5°	9046.9	7744.7	3396.4	620.6	590.2	639.7	685.4	654.9	605.4	563.5	563.5
80°	5513.5	4538.7	1500.2	536.9	521.6	559.7	590.2	555.9	514.0	472.1	460.7
82.5°	2098.0	1751.5	727.3	460.7	456.9	479.8	502.6	468.3	437.9	418.8	361.7
85°	575.0	529.3	498.8	384.6	377.0	373.1	399.8	384.6	342.7	281.8	251.3
87.5°	217.0	247.5	270.3	236.1	251.3	232.3	266.5	243.7	217.0	140.9	125.7
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)