

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: P399861

Luminaire Tested: **ARCH-L-PA3-200-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399861
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-PA3-200-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 28929 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

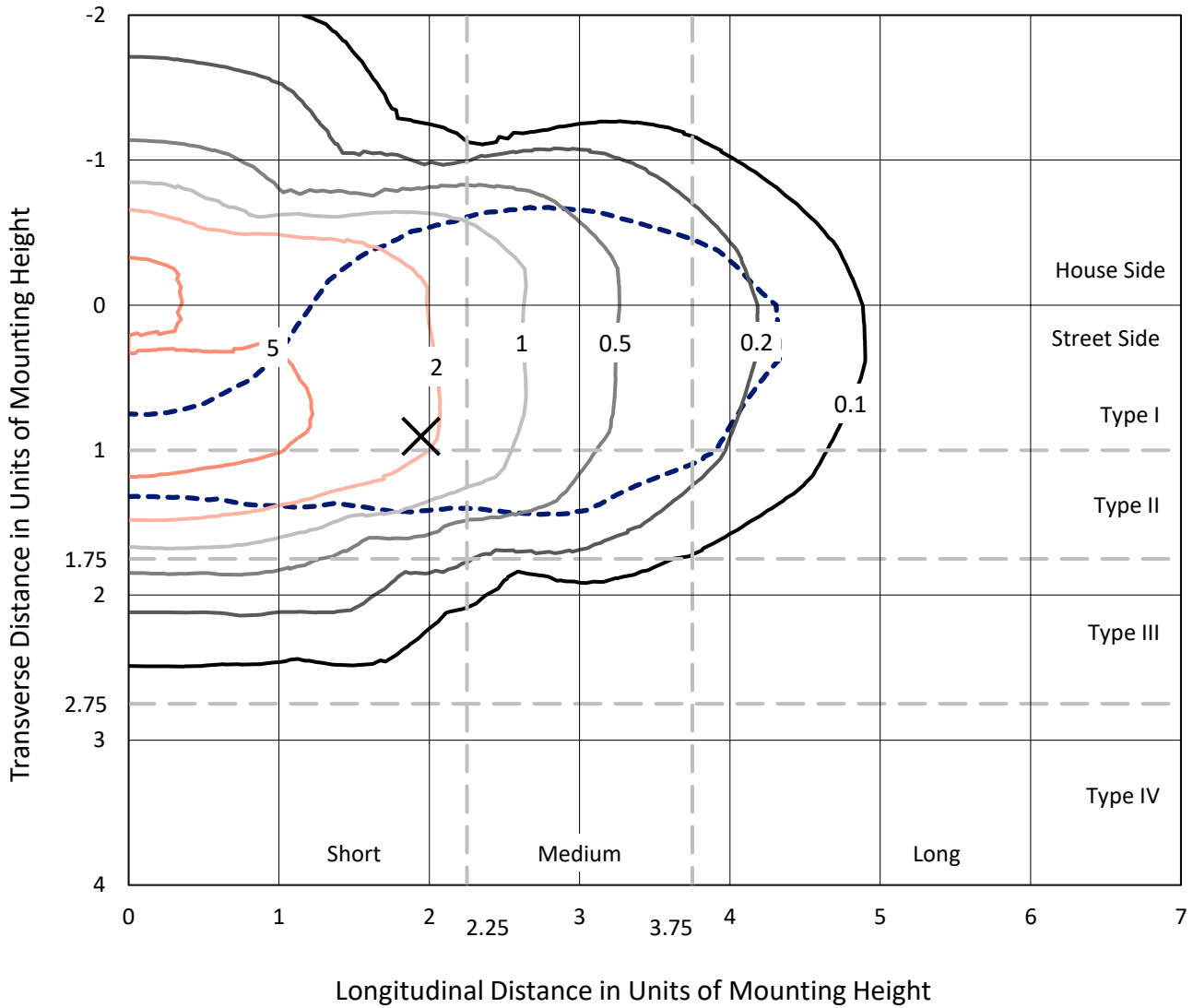
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

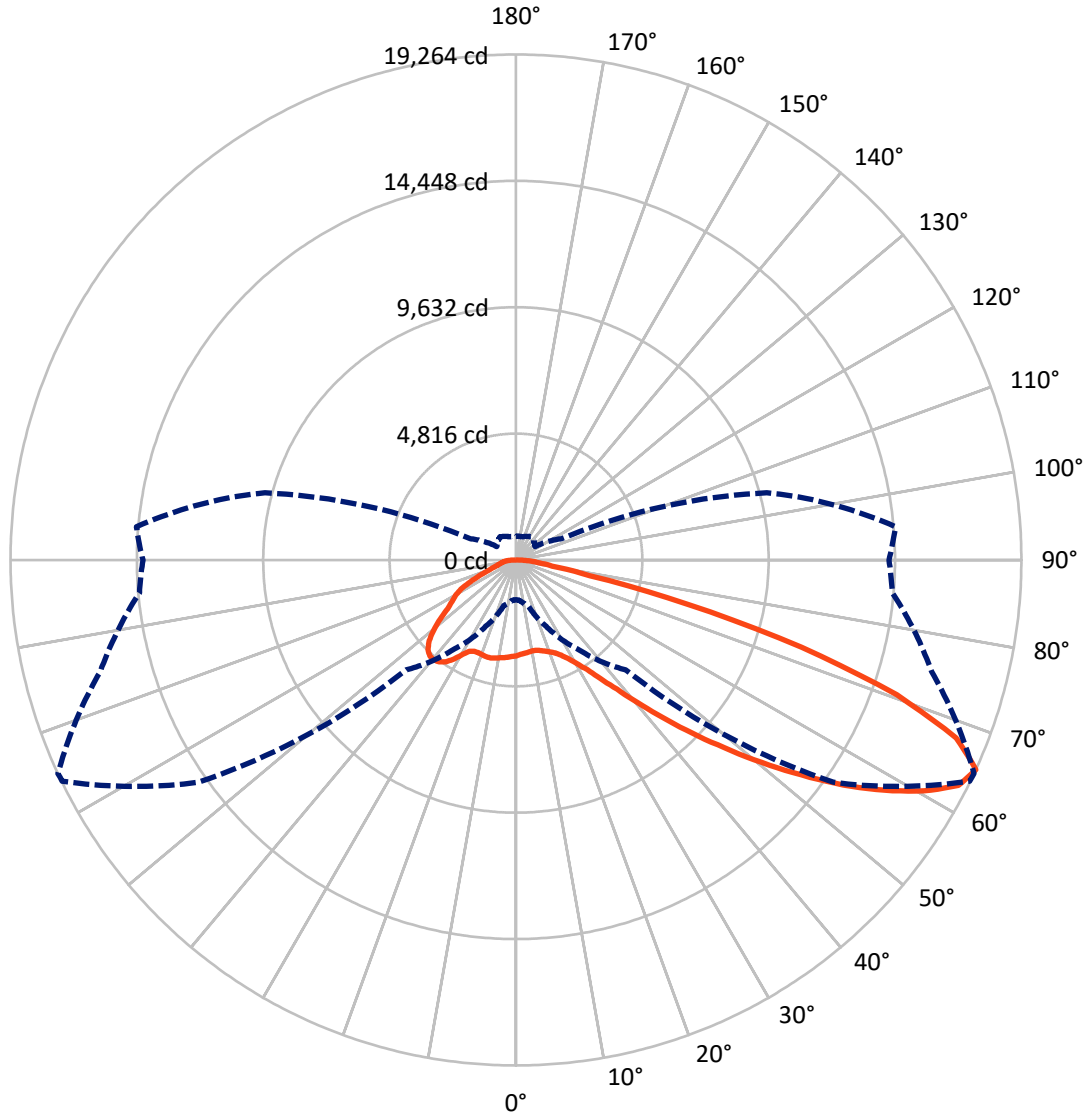
✕ Max cd
 - - - 1/2 Max cd



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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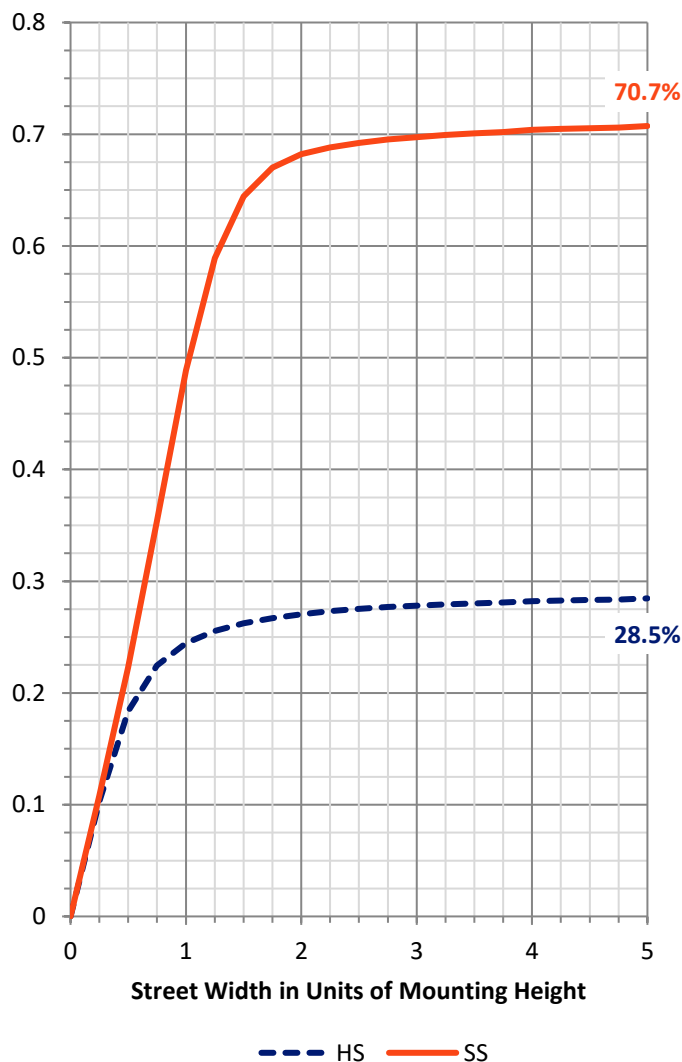
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8363.8	0.0	8363.8
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	20565.2	0.0	20565.2
	% Fixture	71.1	0.0	71.1
Total	Lumens	28929.0	0.0	28929.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.2	1.2
10°-20°	1039.8	3.6
20°-30°	1846.9	6.4
30°-40°	3124.5	10.8
40°-50°	5439.2	18.8
50°-60°	7029.2	24.3
60°-70°	6150.9	21.3
70°-80°	3345.7	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°	28929.0	100.0
0°-180°	28929.0	100.0

Coefficient of Utilization

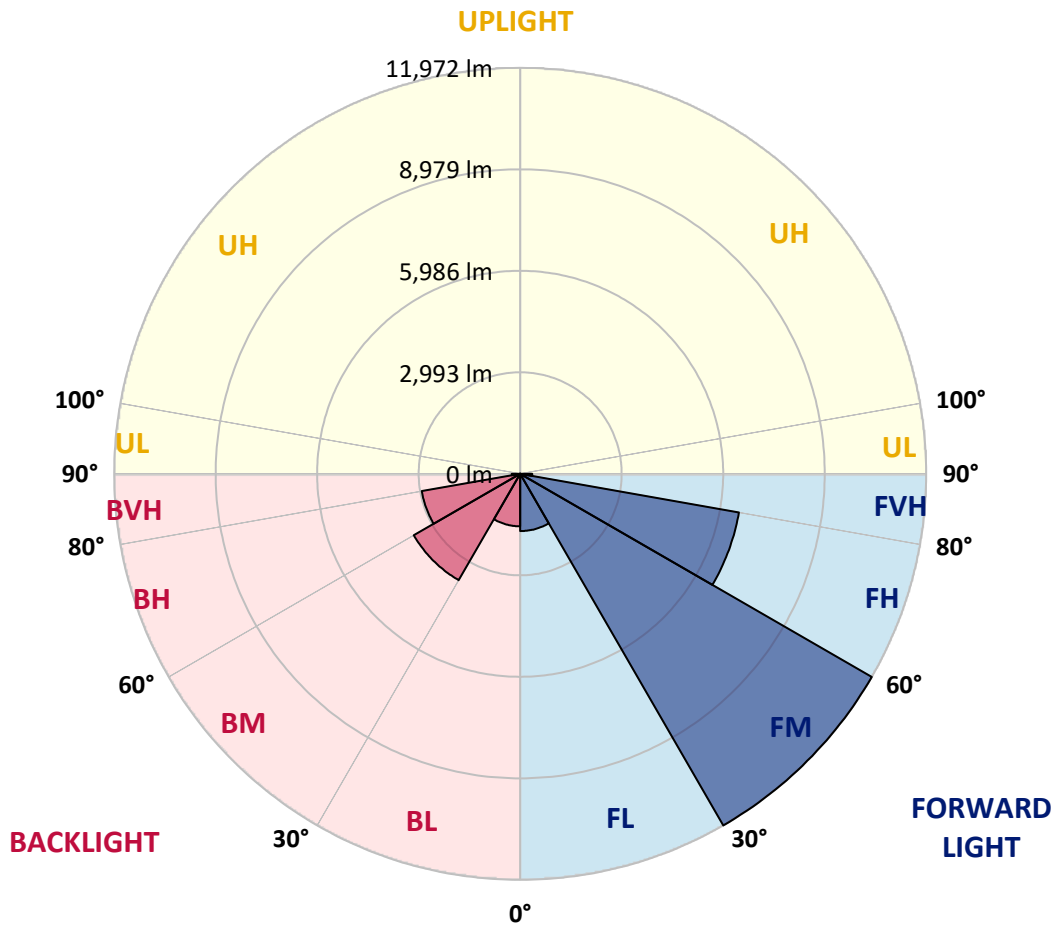


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1687.9	5.8			
FM (30°-60°)	11971.6	41.4			
FH (60°-80°)	6549.9	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°)	3621.3	12.5	B3/5000		
BH (60°-80°)	2946.7	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°	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5
2.5°	3590.7	3586.9	3579.3	3586.9	3590.7	3598.3	3594.5	3602.1	3598.3	3609.8	3628.8
5°	3499.3	3491.7	3487.9	3507.0	3518.4	3537.4	3545.0	3571.7	3567.9	3586.9	3617.4
7.5°	3396.5	3396.5	3392.7	3415.6	3430.8	3465.1	3491.7	3537.4	3541.2	3575.5	3609.8
10°	3316.6	3320.4	3316.6	3335.6	3358.5	3400.3	3446.0	3510.8	3514.6	3564.1	3598.3
12.5°	3286.1	3286.1	3286.1	3312.8	3343.2	3400.3	3453.6	3522.2	3529.8	3583.1	3613.6
15°	3328.0	3331.8	3324.2	3350.8	3385.1	3453.6	3503.1	3575.5	3583.1	3632.6	3651.7
17.5°	3476.5	3491.7	3472.7	3487.9	3480.3	3533.6	3579.3	3651.7	3655.5	3697.3	3705.0
20°	3769.7	3784.9	3754.5	3735.4	3666.9	3663.1	3682.1	3739.2	3739.2	3765.9	3746.8
22.5°	4222.8	4238.0	4184.7	4112.4	3948.7	3868.7	3826.8	3853.5	3849.7	3861.1	3811.6
25°	4824.4	4820.6	4755.9	4622.6	4359.9	4165.7	4062.9	4021.0	4021.0	3998.2	3937.2
27.5°	5570.8	5513.6	5399.4	5239.5	4873.9	4603.6	4382.7	4276.1	4257.1	4188.5	4074.3
30°	6366.6	6324.7	6161.0	5928.7	5506.0	5159.5	4794.0	4580.7	4569.3	4420.8	4249.5
32.5°	7303.3	7234.8	7052.0	6774.0	6267.6	5780.2	5323.3	4999.6	4980.6	4744.5	4508.4
35°	8506.6	8449.4	8095.3	7817.3	7166.2	6526.5	5985.8	5555.5	5540.3	5250.9	4950.1
37.5°	9949.7	9801.2	9458.5	8936.8	8251.4	7493.7	6808.3	6267.6	6248.5	5928.7	5547.9
40°	11236.7	11103.5	10798.8	10319.1	9584.2	8742.6	7813.5	7158.6	7139.6	6751.2	6271.4
42.5°	12188.7	12097.3	11899.3	11621.3	11095.8	10585.6	9096.8	8236.2	8201.9	7699.3	7101.5
45°	12740.8	12668.4	12554.2	12622.8	12615.1	12519.9	10627.5	9519.4	9409.0	8757.9	8026.8
47.5°	12607.5	12542.8	12588.5	13121.6	13856.5	14408.6	12409.5	10833.1	10684.6	9835.5	9013.0
50°	11644.2	11670.8	11910.7	12931.2	14579.9	15806.0	14385.7	12329.6	12131.6	10920.7	9949.7
52.5°	9888.8	9953.5	10536.1	11964.0	14500.0	16712.3	16171.6	13875.5	13612.8	11979.2	10802.6
55°	7855.4	8019.2	8773.1	10273.4	13456.7	16777.0	17519.5	15429.1	15139.7	12973.1	11545.2
57.5°	5810.7	6054.4	6926.3	8304.7	11457.6	15752.7	18193.5	16914.1	16563.8	13959.3	12329.6
60°	3685.9	3834.4	4839.7	6465.6	8769.3	13247.2	18105.9	18178.3	17873.7	14941.7	13148.2
62.5°	2353.2	2425.5	2932.0	4611.2	6130.5	9808.8	17150.2	19134.0	18928.4	15836.5	13925.0
65°	1511.7	1542.1	1801.1	2836.8	4173.3	5921.1	14770.3	19236.8	19263.5	16396.3	14404.8
67.5°	1229.9	1245.1	1340.3	1751.6	2951.0	3270.9	10288.6	17774.7	18098.3	16251.6	14241.1
70°	1119.5	1138.5	1237.5	1397.5	2284.7	2258.0	4980.6	14873.1	15402.4	15417.7	13513.8
72.5°	944.3	971.0	1104.3	1321.3	1766.8	1782.0	2109.5	10593.2	11373.8	13780.3	12420.9
75°	788.2	803.4	917.7	1165.2	1496.5	1424.1	1481.2	5616.5	6743.6	11050.1	11259.6
77.5°	639.7	654.9	738.7	929.1	1328.9	1108.1	1165.2	2326.5	2874.9	7501.3	9203.4
80°	456.9	472.2	567.4	723.5	1005.3	997.6	864.4	1283.2	1393.6	4055.3	5978.2
82.5°	327.5	338.9	430.3	517.9	696.8	1001.4	651.1	872.0	913.9	1797.3	2410.3
85°	220.9	220.9	297.0	342.7	449.3	632.1	525.5	590.2	616.9	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



REPORT NUMBER: P399861

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5	3655.5
2.5°	3640.2	3644.0	3651.7	3674.5	3689.7	3712.6	3724.0	3739.2	3739.2	3731.6	3735.4
5°	3632.6	3644.0	3670.7	3712.6	3739.2	3781.1	3811.6	3834.4	3842.0	3834.4	3838.2
7.5°	3628.8	3647.8	3693.5	3754.5	3792.5	3845.8	3887.7	3914.4	3933.4	3925.8	3929.6
10°	3617.4	3647.8	3705.0	3781.1	3838.2	3891.5	3929.6	3941.0	3952.5	3944.8	3941.0
12.5°	3632.6	3666.9	3727.8	3819.2	3883.9	3925.8	3937.2	3918.2	3891.5	3876.3	3872.5
15°	3663.1	3697.3	3758.3	3853.5	3910.6	3925.8	3899.2	3838.2	3777.3	3743.0	3739.2
17.5°	3705.0	3727.8	3777.3	3861.1	3906.8	3887.7	3834.4	3762.1	3716.4	3689.7	3693.5
20°	3731.6	3731.6	3769.7	3834.4	3872.5	3857.3	3792.5	3712.6	3640.2	3606.0	3594.5
22.5°	3769.7	3750.7	3754.5	3811.6	3864.9	3842.0	3705.0	3564.1	3461.3	3423.2	3419.4
25°	3872.5	3819.2	3784.9	3819.2	3944.8	3758.3	3484.1	3320.4	3225.2	3190.9	3194.7
27.5°	3998.2	3925.8	3853.5	3910.6	4009.6	3567.9	3202.3	3015.8	2958.6	2932.0	2943.4
30°	4123.8	4028.6	3933.4	4139.0	3963.9	3270.9	2840.6	2657.8	2608.3	2589.3	2604.5
32.5°	4356.1	4200.0	4085.7	4443.7	3823.0	2932.0	2448.4	2280.9	2235.2	2212.3	2204.7
35°	4744.5	4546.5	4432.2	4710.2	3625.0	2555.0	2090.5	1972.4	1922.9	1873.4	1865.8
37.5°	5304.2	5064.3	4961.5	4862.5	3347.0	2181.9	1816.3	1736.3	1664.0	1587.8	1584.0
40°	5974.4	5662.2	5586.0	4931.1	2962.4	1831.5	1625.9	1549.8	1458.4	1386.0	1389.8
42.5°	6747.4	6347.6	6183.8	4912.0	2486.5	1645.0	1488.8	1405.1	1325.1	1260.4	1256.6
45°	7573.7	7120.5	6743.6	4778.7	2014.3	1515.5	1405.1	1306.1	1226.1	1153.8	1146.1
47.5°	8487.5	7981.1	7261.4	4519.8	1664.0	1424.1	1355.6	1214.7	1142.3	1096.6	1096.6
50°	9409.0	8803.6	7737.4	4127.6	1458.4	1355.6	1283.2	1165.2	1108.1	1070.0	1070.0
52.5°	10197.2	9660.3	8129.6	3659.3	1328.9	1298.4	1233.7	1142.3	1081.4	1047.1	1043.3
55°	10962.6	10456.1	8479.9	3194.7	1222.3	1222.3	1222.3	1123.3	1054.8	1024.3	1020.5
57.5°	11724.1	11293.8	8845.4	2890.1	1127.1	1157.6	1199.4	1100.4	1031.9	1005.3	1001.4
60°	12584.7	12299.1	9268.1	2676.9	1043.3	1089.0	1169.0	1073.8	993.8	971.0	967.2
62.5°	13498.5	13498.5	9652.7	2376.0	967.2	1031.9	1123.3	1039.5	959.6	940.5	936.7
65°	14214.4	14522.8	9900.2	1926.7	891.0	974.8	1070.0	993.8	913.9	910.1	902.4
67.5°	14298.2	14781.8	9744.1	1454.6	822.5	913.9	1016.7	944.3	868.2	868.2	856.7
70°	13696.5	14187.7	9256.7	1089.0	773.0	852.9	948.1	883.4	811.1	818.7	799.6
72.5°	12691.3	12813.1	8045.8	860.6	715.9	788.2	864.4	814.9	750.1	750.1	723.5
75°	11366.2	10688.4	5844.9	719.7	647.3	712.1	780.6	738.7	681.6	662.6	647.3
77.5°	9047.3	7745.0	3396.5	620.7	590.2	639.7	685.4	654.9	605.4	563.5	563.5
80°	5513.6	4538.9	1500.3	536.9	521.7	559.7	590.2	555.9	514.0	472.2	460.7
82.5°	2098.1	1751.6	727.3	460.7	456.9	479.8	502.6	468.4	437.9	418.9	361.7
85°	575.0	529.3	498.8	384.6	377.0	373.2	399.8	384.6	342.7	281.8	251.3
87.5°	217.0	247.5	270.4	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)