

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: P399852

Luminaire Tested: **ARCH-L-PA3-200-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399852
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-PA3-200-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 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: 26344 lumens
Efficiency: N/A
Efficacy: 131.1 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

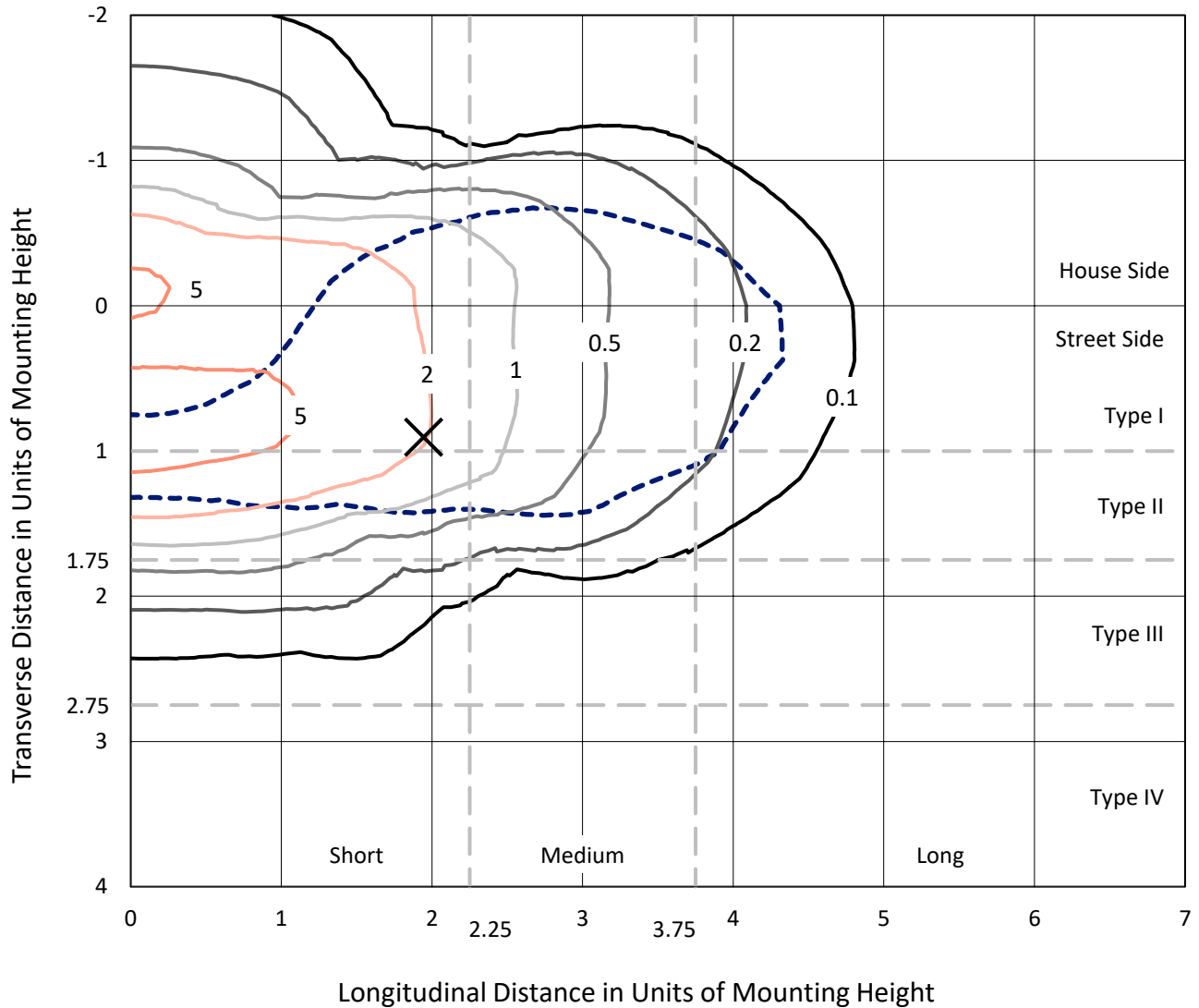
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

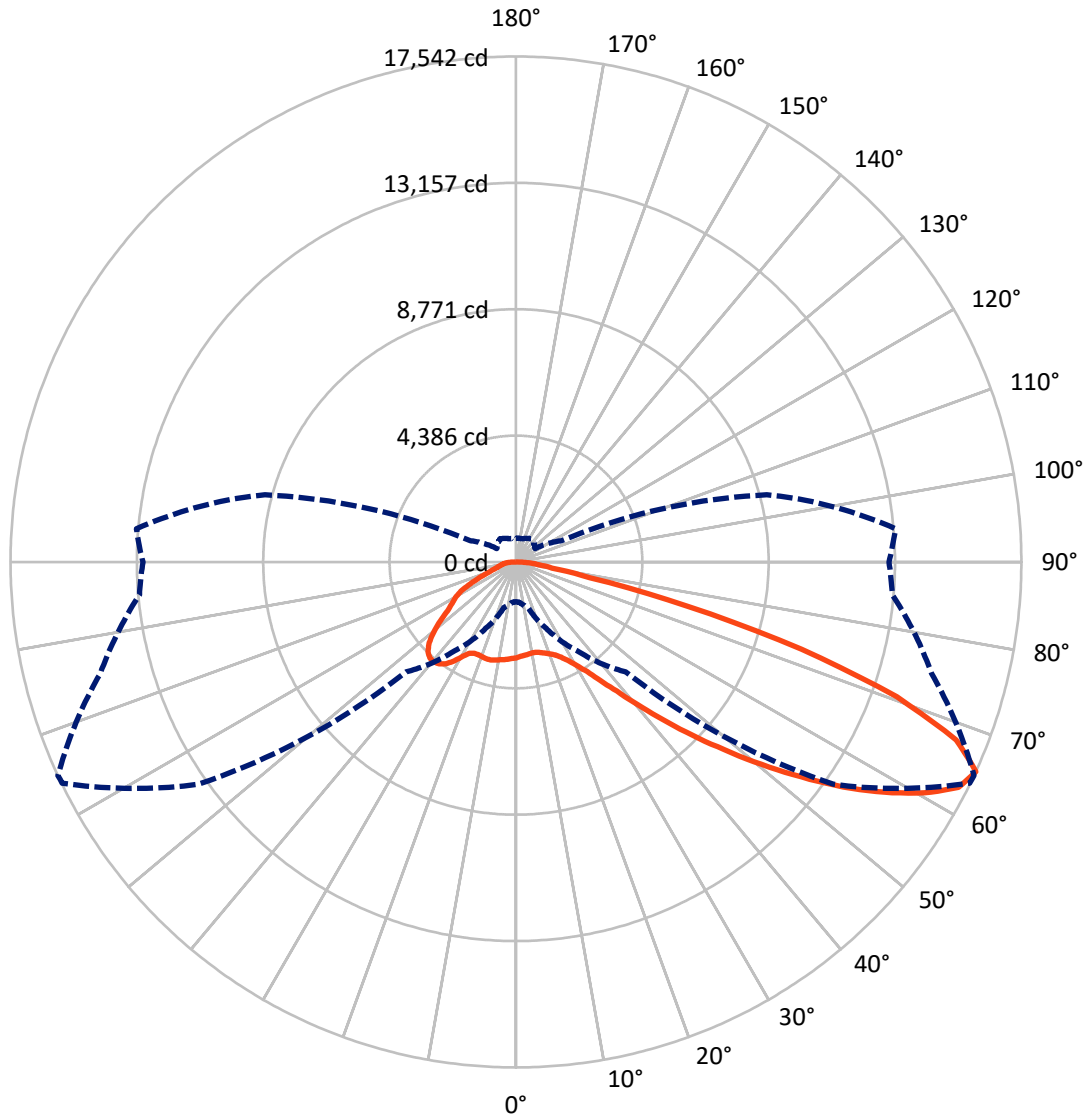
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

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CATALOG NUMBER: ARCH-L-PA3-200-730-U-T2U

Luminous Intensity Polar Plot



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

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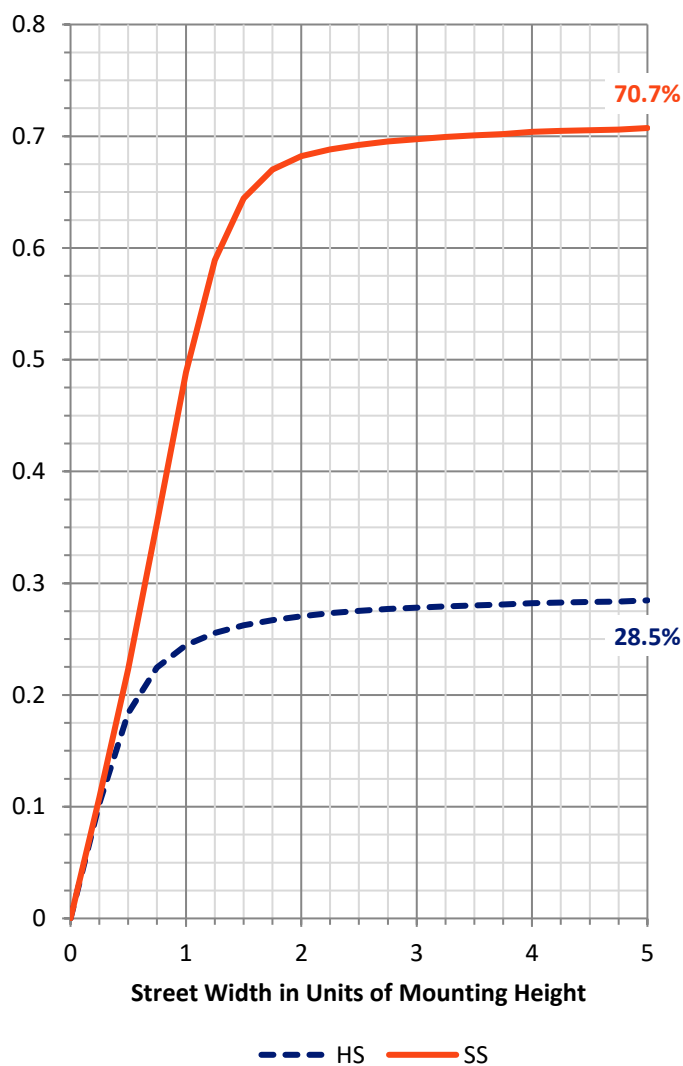
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7616.4	0.0	7616.4
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	18727.6	0.0	18727.6
	% Fixture	71.1	0.0	71.1
Total	Lumens	26344.0	0.0	26344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.1	1.2
10°-20°	946.8	3.6
20°-30°	1681.9	6.4
30°-40°	2845.3	10.8
40°-50°	4953.2	18.8
50°-60°	6401.1	24.3
60°-70°	5601.3	21.3
70°-80°	3046.7	11.6
80°-90°	550.5	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°	26344.0	100.0
0°-180°	26344.0	100.0

Coefficient of Utilization

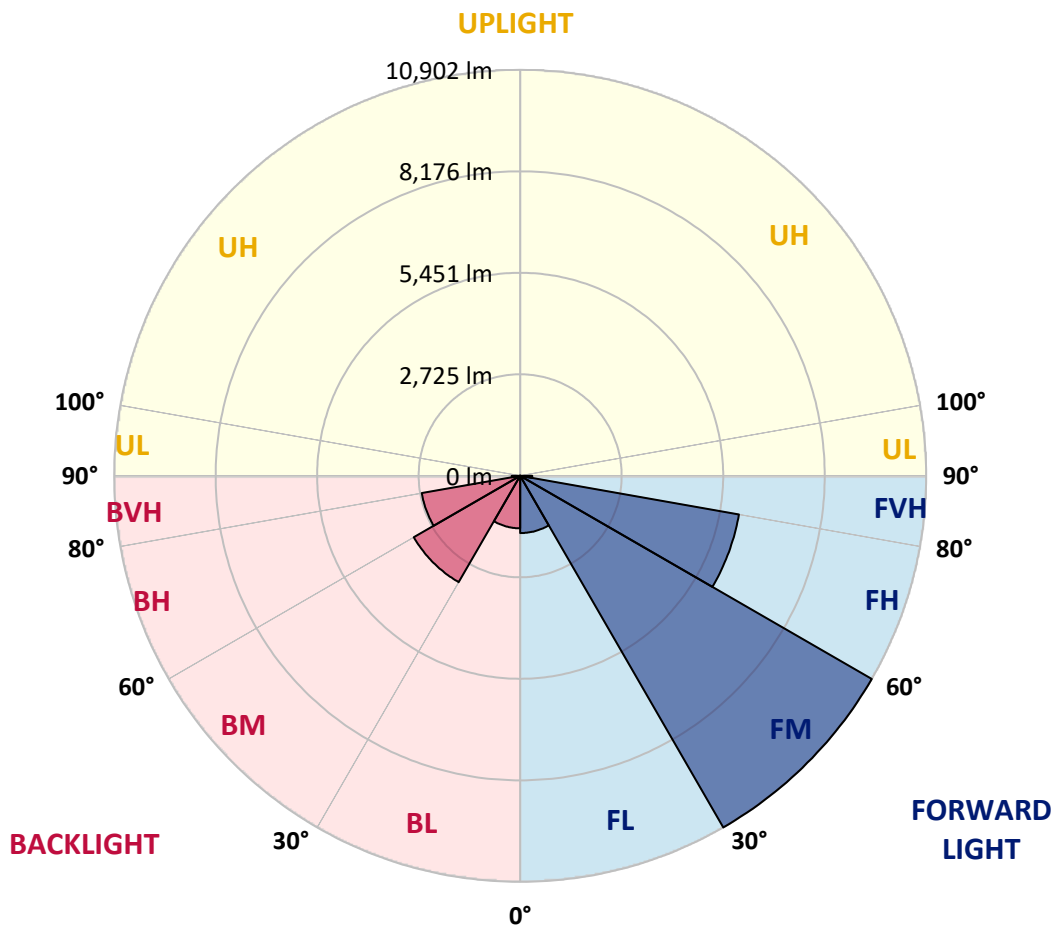


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1537.1	5.8			
FM (30°-60°)	10901.9	41.4			
FH (60°-80°)	5964.7	22.6			G3/7500
FVH (80°-90°)	323.9	1.2			G3/500
BL (0°-30°)	1408.8	5.3	B3/2500		
BM (30°-60°)	3297.7	12.5	B3/5000		
BH (60°-80°)	2683.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	226.6	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°	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8
2.5°	3269.9	3266.4	3259.5	3266.4	3269.9	3276.8	3273.3	3280.3	3276.8	3287.2	3304.5
5°	3186.6	3179.7	3176.2	3193.6	3204.0	3221.3	3228.3	3252.5	3249.1	3266.4	3294.1
7.5°	3093.0	3093.0	3089.6	3110.4	3124.2	3155.4	3179.7	3221.3	3224.8	3256.0	3287.2
10°	3020.2	3023.7	3020.2	3037.5	3058.4	3096.5	3138.1	3197.1	3200.5	3245.6	3276.8
12.5°	2992.5	2992.5	2992.5	3016.7	3044.5	3096.5	3145.0	3207.5	3214.4	3262.9	3290.7
15°	3030.6	3034.1	3027.1	3051.4	3082.6	3145.0	3190.1	3256.0	3262.9	3308.0	3325.4
17.5°	3165.8	3179.7	3162.4	3176.2	3169.3	3217.9	3259.5	3325.4	3328.8	3367.0	3373.9
20°	3432.8	3446.7	3419.0	3401.6	3339.2	3335.8	3353.1	3405.1	3405.1	3429.4	3412.0
22.5°	3845.5	3859.3	3810.8	3744.9	3595.8	3523.0	3484.9	3509.1	3505.7	3516.1	3471.0
25°	4393.3	4389.9	4330.9	4209.6	3970.3	3793.5	3699.8	3661.7	3661.7	3640.9	3585.4
27.5°	5073.0	5021.0	4916.9	4771.3	4438.4	4192.2	3991.1	3894.0	3876.7	3814.3	3710.2
30°	5797.7	5759.5	5610.4	5398.9	5014.0	4698.5	4365.6	4171.4	4161.0	4025.8	3869.8
32.5°	6650.7	6588.3	6421.8	6168.7	5707.5	5263.7	4847.6	4552.9	4535.5	4320.5	4105.5
35°	7746.4	7694.4	7371.9	7118.8	6525.9	5943.3	5450.9	5059.1	5045.2	4781.7	4507.8
37.5°	9060.6	8925.4	8613.3	8138.3	7514.1	6824.1	6199.9	5707.5	5690.2	5398.9	5052.2
40°	10232.6	10111.3	9833.9	9397.0	8727.7	7961.4	7115.3	6518.9	6501.6	6147.9	5711.0
42.5°	11099.5	11016.3	10836.0	10582.9	10104.4	9639.7	8283.9	7500.2	7469.0	7011.3	6466.9
45°	11602.3	11536.4	11432.4	11494.8	11487.9	11401.2	9677.8	8668.8	8568.2	7975.3	7309.5
47.5°	11481.0	11422.0	11463.6	11949.1	12618.3	13121.1	11300.6	9865.1	9729.9	8956.6	8207.6
50°	10603.7	10627.9	10846.4	11775.7	13277.1	14393.7	13100.3	11227.8	11047.5	9944.8	9060.6
52.5°	9005.1	9064.1	9594.6	10894.9	13204.3	15218.9	14726.6	12635.6	12396.4	10908.8	9837.4
55°	7153.5	7302.6	7989.2	9355.4	12254.2	15277.9	15954.1	14050.4	13786.9	11813.8	10513.5
57.5°	5291.4	5513.4	6307.4	7562.7	10433.8	14345.1	16567.8	15402.7	15083.7	12711.9	11227.8
60°	3356.6	3491.8	4407.2	5887.8	7985.7	12063.5	16488.1	16553.9	16276.5	13606.5	11973.3
62.5°	2142.9	2208.8	2670.0	4199.2	5582.7	8932.3	15617.7	17424.3	17237.0	14421.4	12680.7
65°	1376.6	1404.3	1640.1	2583.3	3800.4	5392.0	13450.5	17517.9	17542.2	14931.1	13117.6
67.5°	1120.0	1133.9	1220.6	1595.1	2687.3	2978.6	9369.2	16186.4	16481.1	14799.4	12968.5
70°	1019.5	1036.8	1126.9	1272.6	2080.5	2056.2	4535.5	13544.1	14026.1	14040.0	12306.2
72.5°	859.9	884.2	1005.6	1203.2	1608.9	1622.8	1921.0	9646.6	10357.5	12549.0	11311.0
75°	717.8	731.6	835.7	1061.1	1362.7	1296.9	1348.9	5114.6	6141.0	10062.7	10253.5
77.5°	582.5	596.4	672.7	846.1	1210.2	1009.0	1061.1	2118.7	2618.0	6831.0	8381.0
80°	416.1	430.0	516.7	658.8	915.4	908.5	787.1	1168.6	1269.1	3692.9	5444.0
82.5°	298.2	308.6	391.8	471.6	634.6	912.0	592.9	794.1	832.2	1636.7	2194.9
85°	201.1	201.1	270.5	312.1	409.2	575.6	478.5	537.5	561.7	776.7	592.9
87.5°	86.7	86.7	145.6	159.5	215.0	267.0	357.2	270.5	277.4	419.6	242.7
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°	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8	3328.8
2.5°	3314.9	3318.4	3325.4	3346.2	3360.0	3380.8	3391.2	3405.1	3405.1	3398.2	3401.6
5°	3308.0	3318.4	3342.7	3380.8	3405.1	3443.2	3471.0	3491.8	3498.7	3491.8	3495.3
7.5°	3304.5	3321.9	3363.5	3419.0	3453.6	3502.2	3540.3	3564.6	3581.9	3575.0	3578.5
10°	3294.1	3321.9	3373.9	3443.2	3495.3	3543.8	3578.5	3588.9	3599.3	3592.3	3588.9
12.5°	3308.0	3339.2	3394.7	3477.9	3536.9	3575.0	3585.4	3568.1	3543.8	3529.9	3526.5
15°	3335.8	3367.0	3422.4	3509.1	3561.1	3575.0	3550.7	3495.3	3439.8	3408.6	3405.1
17.5°	3373.9	3394.7	3439.8	3516.1	3557.7	3540.3	3491.8	3425.9	3384.3	3360.0	3363.5
20°	3398.2	3398.2	3432.8	3491.8	3526.5	3512.6	3453.6	3380.8	3314.9	3283.7	3273.3
22.5°	3432.8	3415.5	3419.0	3471.0	3519.5	3498.7	3373.9	3245.6	3152.0	3117.3	3113.8
25°	3526.5	3477.9	3446.7	3477.9	3592.3	3422.4	3172.8	3023.7	2937.0	2905.8	2909.2
27.5°	3640.9	3575.0	3509.1	3561.1	3651.3	3249.1	2916.2	2746.3	2694.3	2670.0	2680.4
30°	3755.3	3668.6	3581.9	3769.2	3609.7	2978.6	2586.8	2420.3	2375.3	2357.9	2371.8
32.5°	3966.8	3824.7	3720.6	4046.6	3481.4	2670.0	2229.6	2077.0	2035.4	2014.6	2007.7
35°	4320.5	4140.2	4036.2	4289.3	3301.1	2326.7	1903.7	1796.2	1751.1	1706.0	1699.1
37.5°	4830.3	4611.8	4518.2	4428.0	3047.9	1986.9	1654.0	1581.2	1515.3	1446.0	1442.5
40°	5440.5	5156.2	5086.9	4490.4	2697.7	1667.9	1480.6	1411.3	1328.1	1262.2	1265.6
42.5°	6144.4	5780.4	5631.3	4473.1	2264.3	1498.0	1355.8	1279.5	1206.7	1147.7	1144.3
45°	6896.9	6484.3	6141.0	4351.7	1834.3	1380.1	1279.5	1189.4	1116.5	1050.7	1043.7
47.5°	7729.1	7267.9	6612.6	4115.9	1515.3	1296.9	1234.4	1106.1	1040.3	998.6	998.6
50°	8568.2	8016.9	7046.0	3758.8	1328.1	1234.4	1168.6	1061.1	1009.0	974.4	974.4
52.5°	9286.0	8797.1	7403.2	3332.3	1210.2	1182.4	1123.5	1040.3	984.8	953.6	950.1
55°	9983.0	9521.8	7722.2	2909.2	1113.1	1113.1	1113.1	1022.9	960.5	932.8	929.3
57.5°	10676.5	10284.7	8055.0	2631.8	1026.4	1054.1	1092.3	1002.1	939.7	915.4	912.0
60°	11460.2	11200.1	8439.9	2437.7	950.1	991.7	1064.5	977.8	905.0	884.2	880.7
62.5°	12292.4	12292.4	8790.2	2163.7	880.7	939.7	1022.9	946.6	873.8	856.5	853.0
65°	12944.2	13225.1	9015.5	1754.6	811.4	887.7	974.4	905.0	832.2	828.7	821.8
67.5°	13020.5	13460.9	8873.4	1324.6	749.0	832.2	925.8	859.9	790.6	790.6	780.2
70°	12472.7	12920.0	8429.5	991.7	703.9	776.7	863.4	804.5	738.6	745.5	728.2
72.5°	11557.2	11668.2	7326.9	783.7	651.9	717.8	787.1	742.0	683.1	683.1	658.8
75°	10350.5	9733.3	5322.6	655.4	589.5	648.4	710.8	672.7	620.7	603.3	589.5
77.5°	8238.8	7052.9	3093.0	565.2	537.5	582.5	624.2	596.4	551.3	513.2	513.2
80°	5021.0	4133.3	1366.2	488.9	475.1	509.7	537.5	506.3	468.1	430.0	419.6
82.5°	1910.6	1595.1	662.3	419.6	416.1	436.9	457.7	426.5	398.8	381.4	329.4
85°	523.6	482.0	454.2	350.2	343.3	339.8	364.1	350.2	312.1	256.6	228.9
87.5°	197.6	225.4	246.2	215.0	228.9	211.5	242.7	221.9	197.6	128.3	114.4
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)