

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: P237318

Luminaire Tested: **ARCH-L-AF72-250-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-250-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27199 lumens
Efficiency: N/A
Efficacy: 108.4 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

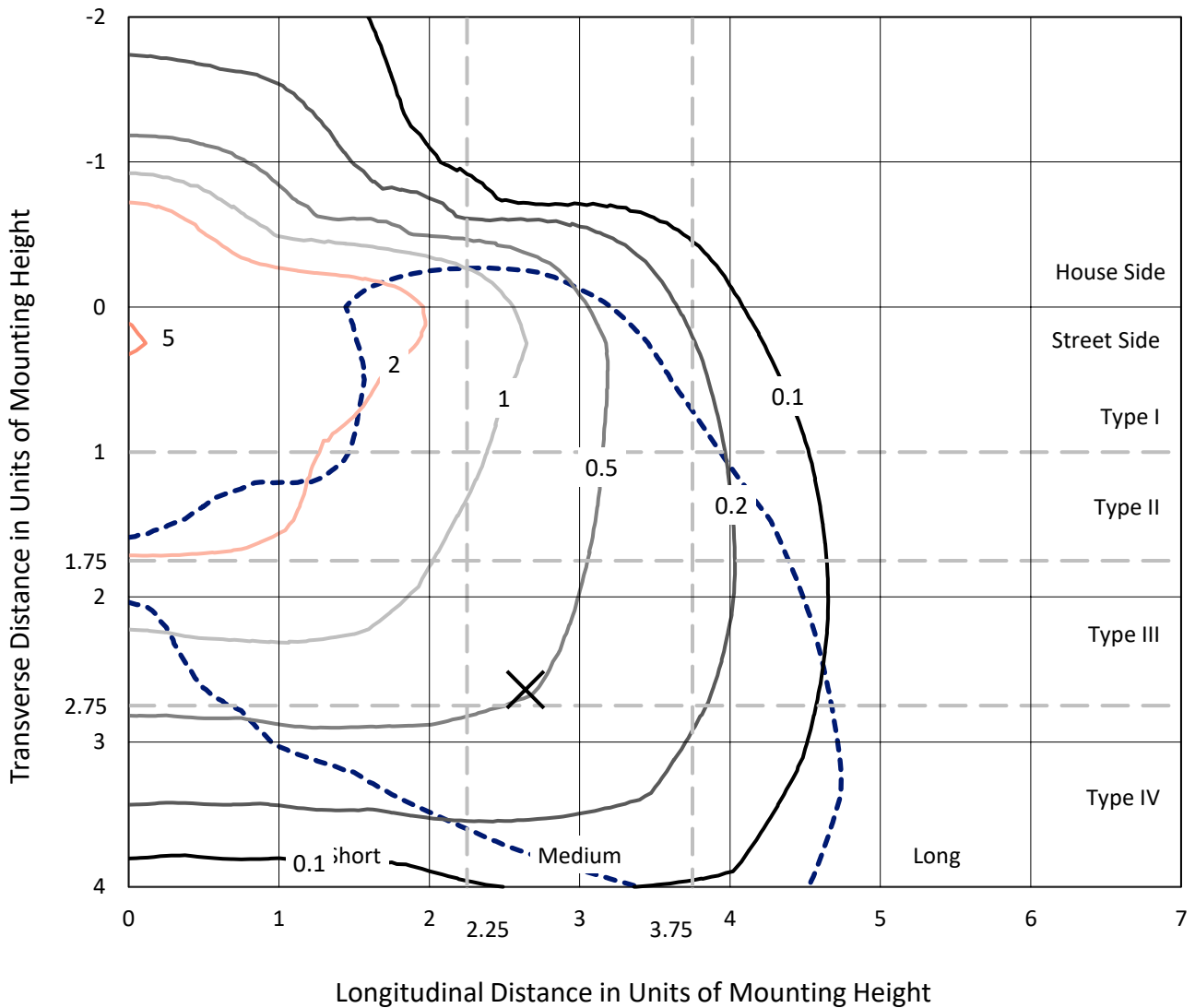
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

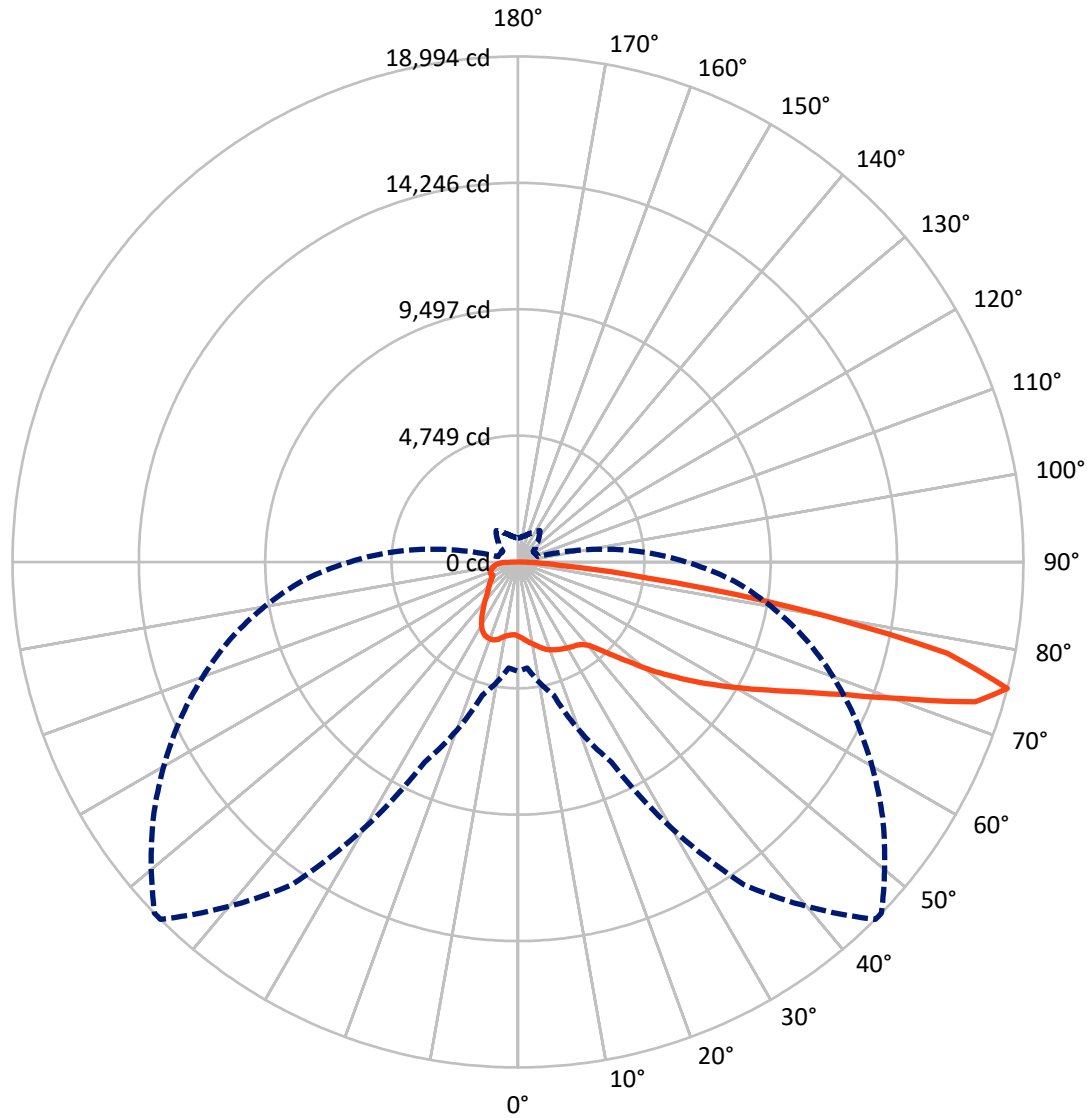
✕ Max cd
 - - - 1/2 Max cd



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

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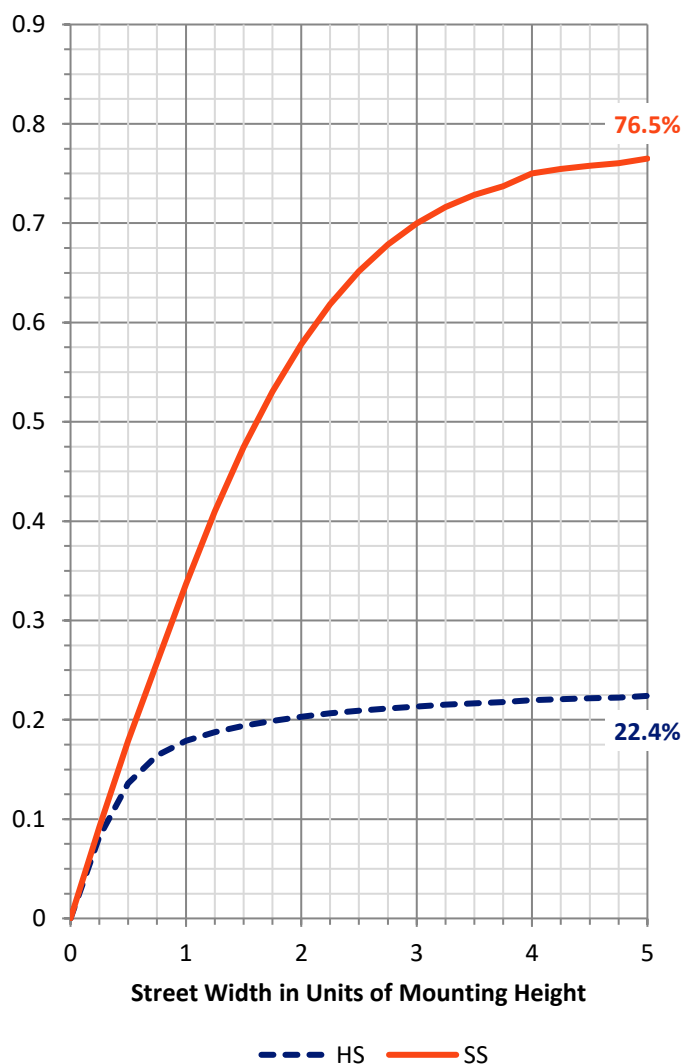
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6300.9	0.0	6300.9
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	20898.1	0.0	20898.1
	% Fixture	76.8	0.0	76.8
Total	Lumens	27199.0	0.0	27199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.0
10°-20°	895.4	3.3
20°-30°	1536.6	5.6
30°-40°	2149.0	7.9
40°-50°	3152.4	11.6
50°-60°	4910.7	18.1
60°-70°	7066.1	26.0
70°-80°	6155.3	22.6
80°-90°	1057.1	3.9
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°	27199.0	100.0
0°-180°	27199.0	100.0

Coefficient of Utilization



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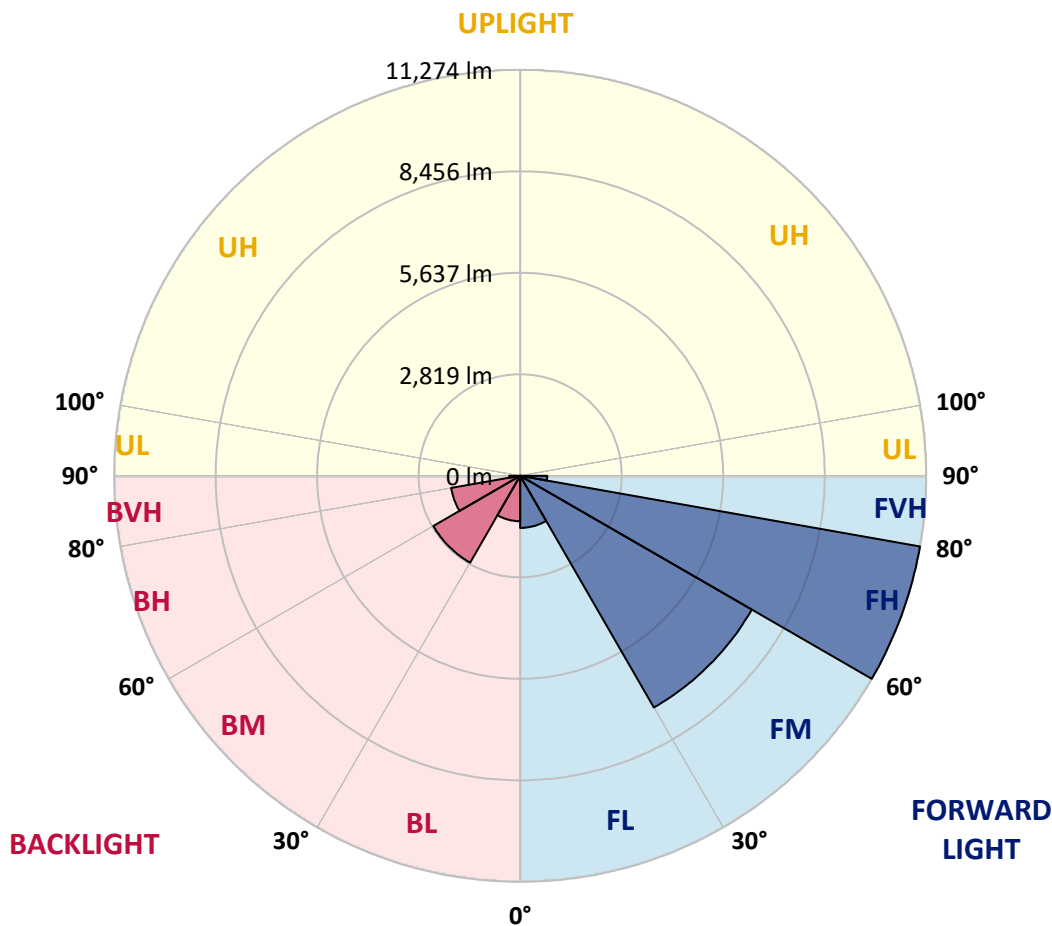
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1446.3	5.3			
FM (30°-60°)	7427.5	27.3			
FH (60°-80°)	11274.2	41.5			G4/12000
FVH (80°-90°)	750.0	2.8			G5
BL (0°-30°)	1262.0	4.6	B3/2500		
BM (30°-60°)	2784.7	10.2	B3/5000		
BH (60°-80°)	1947.2	7.2	B3/2500		G3/2500
BVH (80°-90°)	307.1	1.1			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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2925.9	2904.6	2904.6	2888.9	2888.9	2862.4	2851.7	2846.5	2820.0	2804.1	2788.3
5°	3095.2	3068.6	3063.4	3026.4	3010.5	2952.3	2947.0	2910.0	2862.4	2814.7	2777.7
7.5°	3248.6	3232.8	3206.2	3169.2	3121.6	3047.6	3042.3	2984.1	2904.6	2841.2	2788.3
10°	3359.7	3349.2	3312.0	3264.4	3211.5	3137.5	3132.1	3068.6	2973.5	2899.4	2825.3
12.5°	3491.9	3476.1	3428.4	3364.9	3306.8	3238.0	3232.8	3179.8	3074.0	2978.7	2883.6
15°	3619.0	3597.8	3539.6	3476.1	3412.6	3354.4	3354.4	3296.3	3185.1	3074.0	2962.9
17.5°	3682.5	3671.8	3613.6	3544.9	3491.9	3449.7	3444.4	3391.4	3280.3	3163.9	3042.3
20°	3703.6	3709.0	3656.1	3581.9	3544.9	3523.7	3518.4	3481.4	3359.7	3248.6	3132.1
22.5°	3698.3	3714.2	3671.8	3592.5	3581.9	3581.9	3581.9	3539.6	3444.4	3333.3	3216.8
25°	3719.5	3740.6	3709.0	3613.6	3613.6	3634.8	3634.8	3613.6	3529.0	3433.8	3317.3
27.5°	3793.6	3809.5	3783.0	3650.7	3656.1	3687.7	3682.5	3687.7	3634.8	3544.9	3428.4
30°	3883.5	3904.7	3872.9	3709.0	3703.6	3735.3	3735.3	3761.8	3724.7	3629.5	3534.3
32.5°	4126.8	4121.6	4021.1	3772.4	3756.6	3788.2	3788.2	3814.7	3793.6	3719.5	3629.5
35°	4851.7	4772.3	4550.1	3978.6	3820.0	3835.9	3835.9	3883.5	3894.1	3835.9	3756.6
37.5°	5592.4	5566.0	5396.7	4529.1	4052.8	3936.4	3931.1	3999.9	4047.5	3999.9	3947.0
40°	6338.4	6317.3	6280.2	5264.4	4539.5	4116.4	4100.4	4158.6	4243.3	4211.5	4179.8
42.5°	7031.6	7021.0	7058.0	5989.3	5158.5	4502.6	4454.9	4386.1	4507.8	4497.2	4497.2
45°	7576.5	7603.0	7624.1	6666.5	5830.5	4999.8	4941.7	4708.8	4872.9	4915.2	4946.9
47.5°	7883.4	7904.6	7978.6	7327.8	6502.4	5576.6	5534.2	5153.3	5370.2	5497.2	5587.2
50°	8322.5	8264.4	8327.8	7973.3	7311.9	6327.9	6211.5	5751.2	6026.3	6248.5	6460.2
52.5°	8745.7	8650.6	8703.5	8719.3	8232.5	7063.3	6941.6	6454.8	6798.7	7148.0	7523.6
55°	9126.8	9121.4	9174.4	9444.2	9121.4	7851.6	7714.0	7232.6	7730.0	8105.6	8740.5
57.5°	9433.6	9486.6	9719.2	10285.4	10147.9	8708.7	8555.3	8137.3	8724.7	9100.3	10153.1
60°	9793.4	9878.0	10264.3	10999.6	11084.4	9608.1	9449.5	9147.9	9745.8	10126.7	11788.1
62.5°	9915.1	10036.8	10830.5	11751.1	12063.2	10592.2	10449.4	10248.4	10819.8	11163.7	13417.6
65°	9105.5	9338.4	11142.6	12137.3	13116.0	11777.5	11655.8	11481.2	11888.6	12116.1	14523.4
67.5°	8883.4	8989.2	10534.1	12692.7	14105.5	13301.2	13179.5	12878.0	12888.6	12793.2	14883.2
70°	8571.2	8687.6	9909.9	13110.8	15523.3	15385.8	15237.7	14348.8	13803.9	13227.2	14174.2
72.5°	7301.4	7264.3	8539.4	11983.8	16205.9	17967.8	17793.2	15930.8	14481.1	12851.5	11962.7
75°	4100.4	3994.6	5179.8	8290.8	14798.5	18994.1	18988.9	16729.7	14005.0	11195.5	8142.6
77.5°	1190.5	1158.7	1709.0	3476.1	9962.7	16502.2	16703.2	15089.6	11687.5	8042.1	4470.8
80°	560.8	571.4	735.5	1148.1	4253.9	10650.5	11227.2	9936.2	6984.0	3709.0	1846.5
82.5°	354.4	359.8	502.6	740.7	1798.9	4835.9	5312.0	4470.8	2767.1	1603.2	814.7
85°	222.3	222.3	333.3	486.7	1074.0	1544.9	1677.2	1523.7	1185.1	873.0	444.4
87.5°	121.8	121.8	201.0	280.5	587.3	497.3	513.2	608.5	740.7	534.4	222.3
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°	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3	2788.3
2.5°	2783.0	2772.5	2756.5	2751.2	2745.9	2740.7	2745.9	2756.5	2745.9	2745.9	2751.2
5°	2767.1	2756.5	2735.5	2735.5	2740.7	2745.9	2772.5	2788.3	2793.5	2793.5	2793.5
7.5°	2767.1	2751.2	2735.5	2740.7	2751.2	2772.5	2814.7	2841.2	2862.4	2867.6	2867.6
10°	2793.5	2772.5	2761.8	2772.5	2804.1	2820.0	2862.4	2904.6	2931.1	2941.7	2941.7
12.5°	2841.2	2820.0	2820.0	2841.2	2883.6	2904.6	2941.7	2973.5	3005.1	3021.1	3021.1
15°	2920.6	2894.1	2899.4	2936.5	2984.1	3005.1	3031.6	3042.3	3068.6	3089.9	3089.9
17.5°	2994.6	2968.1	2978.7	3021.1	3052.8	3063.4	3079.3	3074.0	3084.6	3100.4	3105.7
20°	3079.3	3052.8	3058.1	3084.6	3089.9	3079.3	3079.3	3063.4	3058.1	3084.6	3095.2
22.5°	3163.9	3137.5	3132.1	3116.3	3089.9	3063.4	3047.6	3031.6	3021.1	3047.6	3058.1
25°	3264.4	3227.4	3201.0	3132.1	3063.4	3015.8	2994.6	2984.1	2978.7	3005.1	3015.8
27.5°	3375.6	3338.5	3259.2	3111.0	2999.9	2920.6	2904.6	2904.6	2915.2	2931.1	2941.7
30°	3481.4	3444.4	3301.5	3063.4	2888.9	2772.5	2756.5	2772.5	2798.9	2814.7	2830.6
32.5°	3587.2	3550.2	3327.9	2989.4	2724.8	2576.7	2566.1	2592.5	2634.9	2645.3	2656.0
35°	3730.1	3693.1	3359.7	2883.6	2518.4	2359.7	2349.2	2365.0	2402.1	2417.9	2433.8
37.5°	3931.1	3910.0	3407.4	2767.1	2328.0	2153.4	2121.6	2111.1	2132.2	2127.0	2148.0
40°	4195.7	4211.5	3491.9	2613.7	2142.8	1963.0	1894.1	1862.5	1841.2	1798.9	1820.0
42.5°	4581.9	4592.5	3587.2	2439.1	1984.0	1783.0	1693.1	1634.8	1592.6	1523.7	1534.3
45°	5148.0	5058.0	3698.3	2253.9	1841.2	1640.2	1534.3	1465.6	1407.4	1349.2	1354.5
47.5°	5899.4	5624.2	3820.0	2100.5	1698.3	1523.7	1428.6	1349.2	1280.4	1232.8	1238.0
50°	6825.2	6327.9	3941.6	1957.6	1555.6	1433.8	1349.2	1264.5	1195.8	1148.1	1142.9
52.5°	8047.4	7174.4	4021.1	1798.9	1412.6	1354.5	1280.4	1201.0	1116.4	1058.1	1052.9
55°	9317.2	8158.5	4089.8	1608.4	1275.0	1264.5	1227.5	1137.5	1037.0	962.9	952.3
57.5°	10714.0	9211.4	4142.8	1423.2	1169.3	1190.5	1179.9	1074.0	962.9	894.2	888.9
60°	11983.8	10301.3	3973.4	1259.2	1074.0	1116.4	1126.9	1037.0	978.9	994.7	999.9
62.5°	13264.2	11142.6	3327.9	1137.5	1010.5	1068.8	1158.7	1153.4	1126.9	1153.4	1158.7
65°	13724.5	11317.2	2359.7	1037.0	947.1	1090.0	1259.2	1248.7	1126.9	1079.4	1068.8
67.5°	13465.2	10798.6	1587.2	957.6	899.4	1116.4	1365.0	1248.7	1084.6	1021.1	999.9
70°	12232.4	9523.6	1163.9	878.3	857.1	1111.0	1423.2	1243.4	1063.4	994.7	968.2
72.5°	9756.3	7349.0	936.5	804.2	793.7	1084.6	1455.0	1232.8	1042.4	968.2	936.5
75°	6317.3	4571.3	788.3	730.2	698.3	1042.4	1439.2	1201.0	1015.9	920.6	899.4
77.5°	2931.1	1968.2	672.0	645.5	608.5	978.9	1391.5	1137.5	957.6	867.7	841.3
80°	1365.0	931.2	566.1	560.8	544.9	925.9	1328.0	1063.4	888.9	814.7	772.5
82.5°	730.2	560.8	460.3	460.3	476.2	862.4	1248.7	973.5	798.9	761.9	650.7
85°	386.2	322.8	333.3	359.8	407.4	761.9	1142.9	878.3	698.3	582.1	566.1
87.5°	195.8	206.4	206.4	243.4	312.2	619.1	941.9	724.8	592.6	476.2	465.6
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)