

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: P399730

Luminaire Tested: **ARCH-L-PA3-180-750-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399730
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-PA3-180-750-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26634 lumens
Efficiency: N/A
Efficacy: 147.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

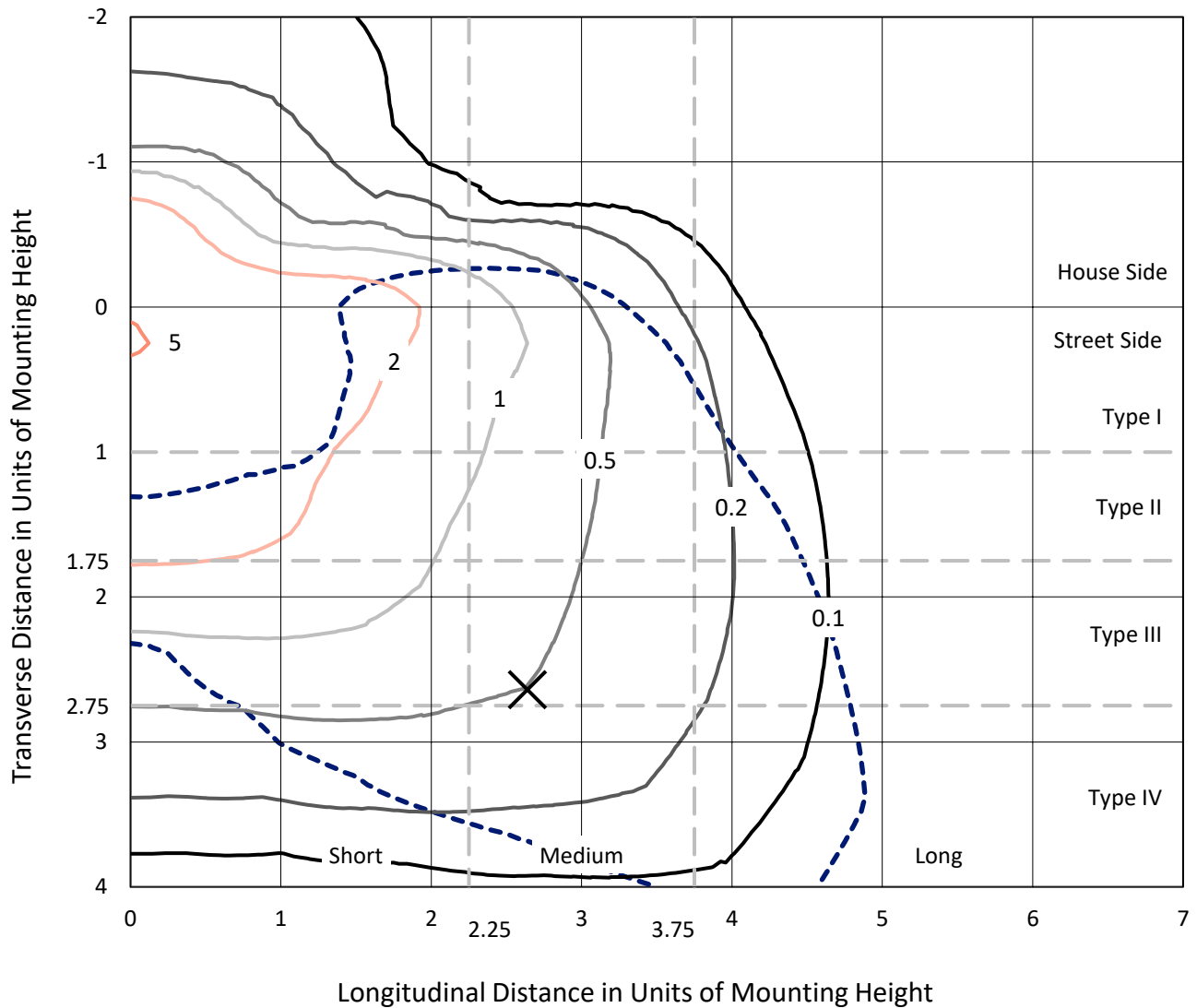
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

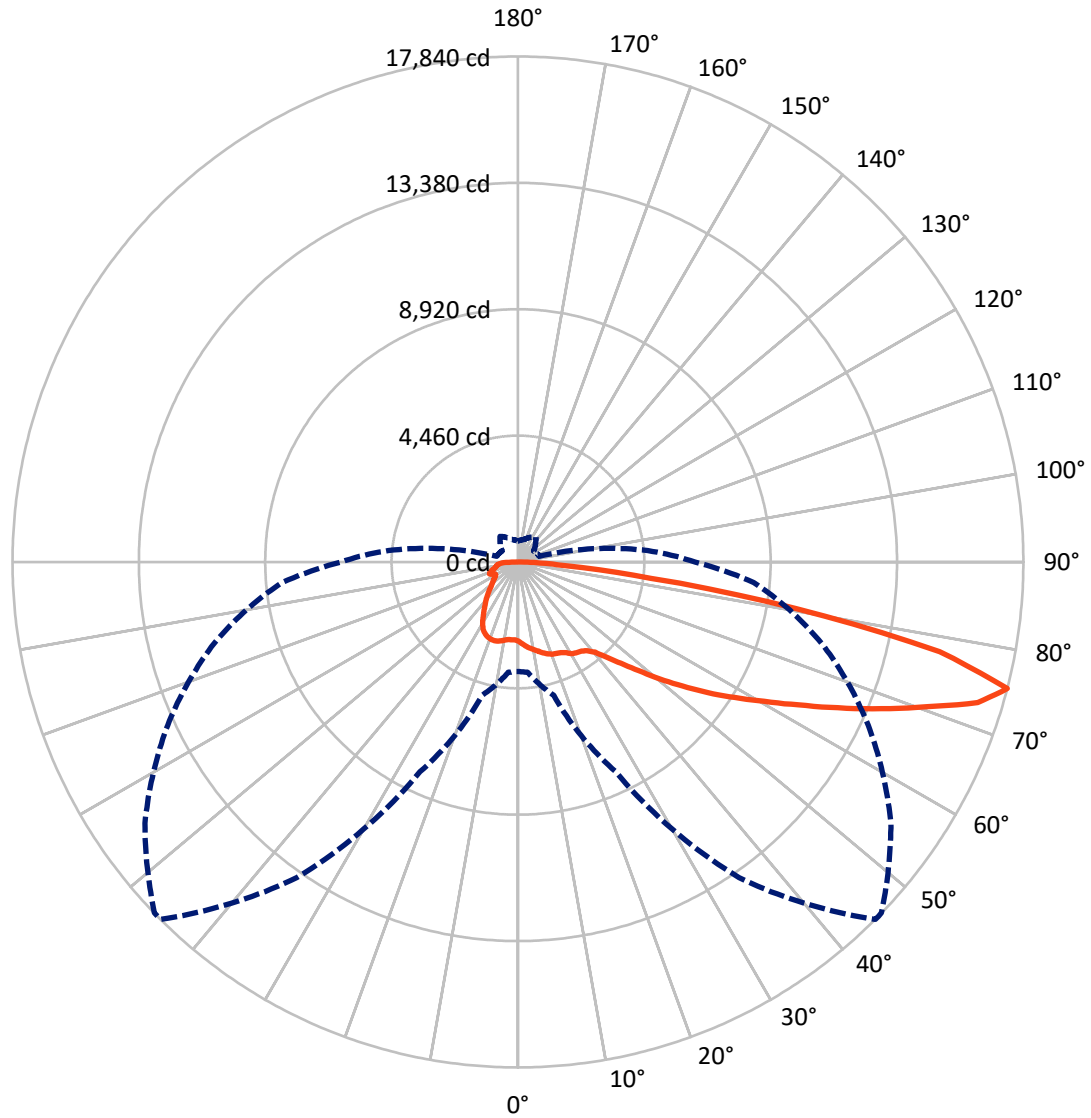
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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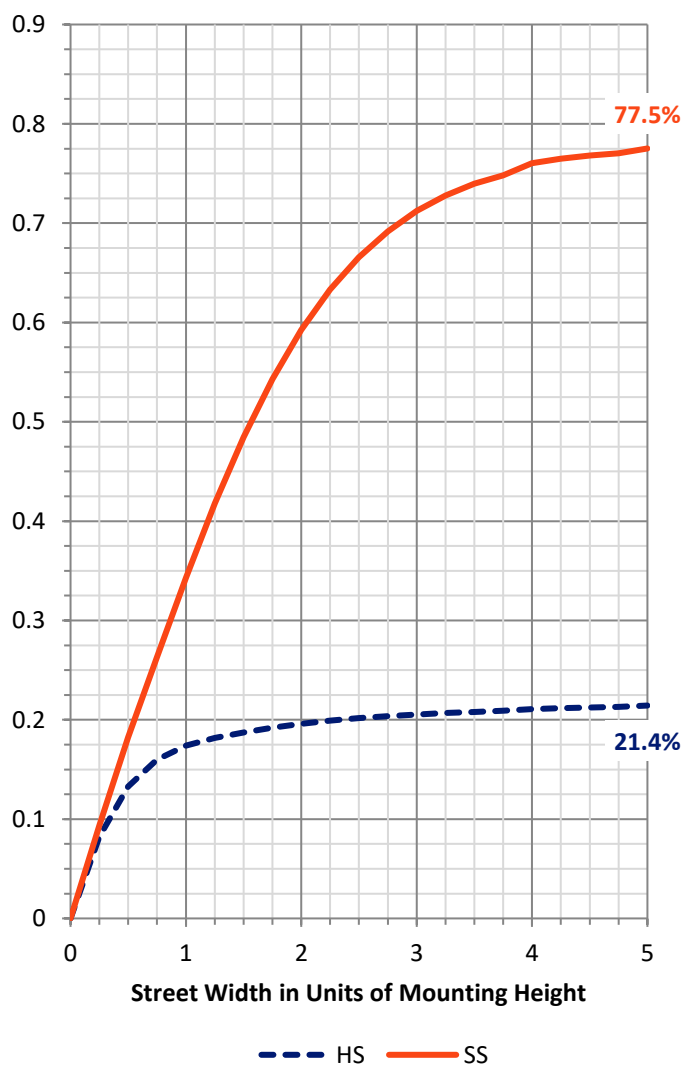
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5886.0	0.0	5886.0
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20748.0	0.0	20748.0
	% Fixture	77.9	0.0	77.9
Total	Lumens	26634.0	0.0	26634.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.7	1.0
10°-20°	880.3	3.3
20°-30°	1500.9	5.6
30°-40°	2102.9	7.9
40°-50°	3089.4	11.6
50°-60°	4916.9	18.5
60°-70°	6994.3	26.3
70°-80°	5856.3	22.0
80°-90°	1016.4	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°	26634.0	100.0
0°-180°	26634.0	100.0

Coefficient of Utilization

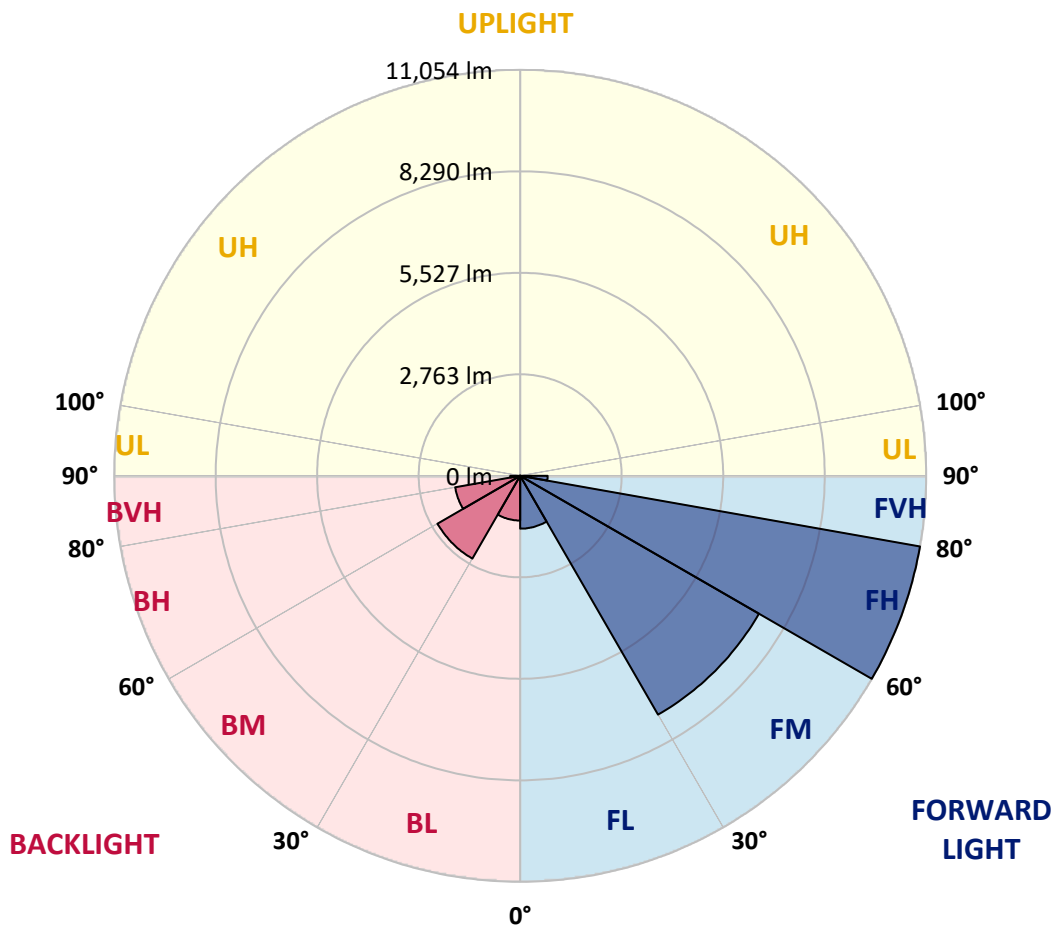


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.7	5.4			
FM (30°-60°)	7507.3	28.2			
FH (60°-80°)	11053.8	41.5			G4/12000
FVH (80°-90°)	747.2	2.8			G4/750
BL (0°-30°)	1218.2	4.6	B3/2500		
BM (30°-60°)	2601.9	9.8	B3/5000		
BH (60°-80°)	1796.8	6.7	B3/2500		G3/2500
BVH (80°-90°)	269.2	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2
2.5°	2957.3	2943.1	2935.9	2935.9	2907.5	2889.7	2886.1	2861.2	2839.9	2818.5	2800.7
5°	3128.1	3117.4	3096.1	3078.3	3039.1	2989.3	2982.2	2928.8	2875.4	2825.6	2782.9
7.5°	3284.7	3263.3	3238.4	3202.8	3138.8	3071.2	3060.5	2985.8	2911.0	2836.3	2779.4
10°	3416.4	3395.0	3359.4	3309.6	3227.8	3145.9	3135.2	3056.9	2978.6	2889.7	2807.8
12.5°	3540.9	3523.1	3469.8	3402.1	3306.0	3231.3	3220.6	3153.0	3071.2	2971.5	2864.8
15°	3647.7	3629.9	3573.0	3494.7	3384.3	3327.4	3313.2	3249.1	3167.3	3060.5	2950.2
17.5°	3701.1	3701.1	3640.6	3555.2	3452.0	3409.3	3398.6	3320.3	3245.6	3142.3	3032.0
20°	3718.9	3726.0	3683.3	3580.1	3491.1	3473.3	3462.6	3398.6	3313.2	3213.5	3110.3
22.5°	3729.5	3743.8	3708.2	3590.7	3516.0	3505.3	3498.2	3455.5	3387.9	3291.8	3188.6
25°	3765.1	3765.1	3740.2	3608.5	3548.0	3544.5	3544.5	3519.6	3473.3	3391.5	3288.3
27.5°	3818.5	3814.9	3782.9	3647.7	3619.2	3629.9	3626.3	3622.8	3590.7	3508.9	3398.6
30°	3907.5	3907.5	3871.9	3726.0	3708.2	3754.4	3758.0	3765.1	3715.3	3587.2	3498.2
32.5°	4042.7	4028.5	3992.9	3804.3	3775.8	3818.5	3825.6	3822.1	3779.4	3658.4	3615.7
35°	4459.1	4427.0	4298.9	3978.6	3836.3	3861.2	3864.8	3882.6	3889.7	3793.6	3772.2
37.5°	5188.6	5145.9	4950.2	4391.5	4028.5	3968.0	3964.4	4010.7	4049.8	3964.4	3964.4
40°	5982.2	5946.6	5832.7	5103.2	4384.3	4185.1	4170.8	4213.5	4263.3	4202.8	4220.6
42.5°	6665.5	6693.9	6704.6	5857.7	4918.1	4590.7	4551.6	4491.1	4569.4	4516.0	4587.2
45°	7177.9	7163.7	7359.4	6629.9	5608.5	5099.6	5046.3	4882.6	4982.2	4978.6	5135.2
47.5°	7722.4	7697.5	7779.4	7355.9	6395.0	5722.4	5640.6	5398.6	5548.0	5651.2	5911.0
50°	8238.4	8245.6	8274.0	7928.8	7249.1	6480.4	6377.2	6053.4	6266.9	6484.0	6850.5
52.5°	8911.0	8861.2	8825.6	8597.9	8206.4	7270.5	7202.8	6832.7	7131.7	7387.9	7875.4
55°	9498.2	9466.2	9444.8	9434.2	9007.1	8142.3	8071.2	7686.8	8117.4	8298.9	9017.8
57.5°	10124.6	10106.8	10220.6	10402.1	10231.3	9028.5	8953.7	8583.6	9064.1	9192.2	10256.2
60°	10583.6	10594.3	10907.5	11370.1	11252.7	9989.3	9900.4	9573.0	9985.8	10099.6	11494.7
62.5°	10587.2	10693.9	11419.9	12249.1	12384.3	11096.1	10992.9	10637.0	10932.4	10932.4	12605.0
65°	9576.5	9697.5	11327.4	12466.2	13530.2	12412.8	12313.2	11754.4	11864.8	11715.3	13647.7
67.5°	8569.4	8711.7	10245.6	12484.0	14334.5	13822.1	13704.6	12871.9	12683.3	12306.0	14377.2
70°	7900.4	8000.0	9281.1	12252.7	14818.5	15295.4	15206.4	13932.4	13327.4	12800.7	14224.2
72.5°	6651.2	6615.7	7839.9	11153.0	15089.0	16968.0	16893.2	15085.4	13886.1	12565.8	12131.7
75°	3861.2	3903.9	4864.8	8170.8	13601.4	17839.9	17832.7	16071.2	13640.6	11099.6	8359.4
77.5°	1113.9	1145.9	1597.9	3590.7	8601.4	15217.1	15704.6	14697.5	11530.2	7911.0	4334.5
80°	487.5	512.5	694.0	1195.7	3704.6	9939.5	10366.5	9939.5	6953.7	3629.9	1701.1
82.5°	288.3	306.0	452.0	740.2	1775.8	4729.5	5306.0	4633.5	3000.0	1540.9	704.6
85°	163.7	170.8	259.8	469.8	1117.4	1654.8	1857.7	1740.2	1462.6	875.4	370.1
87.5°	74.7	78.3	128.1	220.6	626.3	558.7	580.1	768.7	847.0	533.8	185.1
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°	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2	2797.2
2.5°	2793.6	2782.9	2761.6	2754.4	2743.8	2747.3	2750.9	2750.9	2754.4	2743.8	2743.8
5°	2765.1	2747.3	2726.0	2726.0	2726.0	2754.4	2779.4	2793.6	2800.7	2800.7	2793.6
7.5°	2754.4	2733.1	2708.2	2715.3	2722.4	2758.0	2804.3	2850.5	2864.8	2864.8	2857.7
10°	2775.8	2754.4	2736.7	2747.3	2765.1	2793.6	2829.2	2871.9	2907.5	2911.0	2907.5
12.5°	2825.6	2800.7	2782.9	2804.3	2825.6	2843.4	2861.2	2879.0	2925.3	2932.4	2932.4
15°	2907.5	2882.6	2861.2	2879.0	2886.1	2886.1	2886.1	2886.1	2932.4	2939.5	2939.5
17.5°	2989.3	2968.0	2946.6	2950.2	2928.8	2900.4	2889.7	2886.1	2911.0	2932.4	2935.9
20°	3067.6	3049.8	3028.5	2992.9	2939.5	2886.1	2868.3	2868.3	2882.6	2914.6	2914.6
22.5°	3153.0	3131.7	3096.1	3014.2	2925.3	2850.5	2832.7	2843.4	2861.2	2903.9	2900.4
25°	3249.1	3220.6	3160.1	3007.1	2879.0	2790.0	2793.6	2825.6	2857.7	2903.9	2903.9
27.5°	3355.9	3316.7	3195.7	2950.2	2775.8	2690.4	2722.4	2797.2	2843.4	2893.2	2900.4
30°	3473.3	3437.7	3224.2	2850.5	2608.5	2530.2	2608.5	2729.5	2800.7	2847.0	2857.7
32.5°	3615.7	3587.2	3249.1	2722.4	2391.5	2323.8	2437.7	2587.2	2701.1	2754.4	2765.1
35°	3793.6	3765.1	3281.1	2576.5	2188.6	2117.4	2220.6	2373.7	2523.1	2590.7	2612.1
37.5°	4024.9	3982.2	3309.6	2419.9	2017.8	1935.9	1985.8	2124.6	2259.8	2352.3	2377.2
40°	4320.3	4252.7	3334.5	2242.0	1868.3	1775.8	1793.6	1861.2	1939.5	2021.4	2053.4
42.5°	4736.7	4601.4	3338.1	2053.4	1715.3	1629.9	1622.8	1644.1	1644.1	1644.1	1654.8
45°	5316.7	5060.5	3345.2	1875.4	1558.7	1469.8	1448.4	1441.3	1387.9	1284.7	1277.6
47.5°	6049.8	5661.9	3377.2	1726.0	1395.0	1316.7	1288.3	1259.8	1160.1	1053.4	1032.0
50°	6989.3	6359.4	3441.3	1583.6	1256.2	1202.8	1167.3	1099.6	989.3	907.5	886.1
52.5°	8071.2	7188.6	3501.8	1434.2	1153.0	1117.4	1074.7	992.9	875.4	825.6	818.5
55°	9313.2	8113.9	3622.8	1302.5	1064.1	1039.1	1000.0	921.7	832.7	797.2	793.6
57.5°	10583.6	9149.5	3793.6	1185.1	978.6	964.4	964.4	896.8	839.9	825.6	825.6
60°	11807.8	10039.1	3661.9	1074.7	900.4	907.5	975.1	957.3	914.6	932.4	943.1
62.5°	12758.0	10562.3	2971.5	985.8	843.4	907.5	1081.9	1081.9	1032.0	1024.9	1024.9
65°	13163.7	10555.2	2089.0	918.1	822.1	996.4	1206.4	1149.5	1017.8	968.0	957.3
67.5°	13060.5	10092.5	1441.3	871.9	814.9	1089.0	1263.3	1103.2	953.7	911.0	879.0
70°	12153.0	9113.9	1110.3	829.2	804.3	1049.8	1245.6	1049.8	903.9	864.8	836.3
72.5°	9804.3	7309.6	921.7	786.5	761.6	971.5	1185.1	1000.0	864.8	822.1	793.6
75°	6252.7	4597.9	779.4	729.5	679.7	871.9	1103.2	950.2	822.1	765.1	743.8
77.5°	3007.1	1982.2	679.7	661.9	612.1	807.8	1021.4	886.1	765.1	718.9	704.6
80°	1217.1	907.5	590.7	594.3	562.3	768.7	964.4	825.6	708.2	658.4	633.5
82.5°	633.5	526.7	498.2	512.5	512.5	733.1	921.7	775.8	658.4	637.0	555.2
85°	341.6	327.4	384.3	412.8	444.8	661.9	857.7	722.4	601.4	516.0	498.2
87.5°	167.3	213.5	217.1	249.1	309.6	530.2	722.4	605.0	501.8	416.4	409.3
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)