

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: P399721

Luminaire Tested: **ARCH-L-PA3-180-740-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399721
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-PA3-180-740-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 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: 26633 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

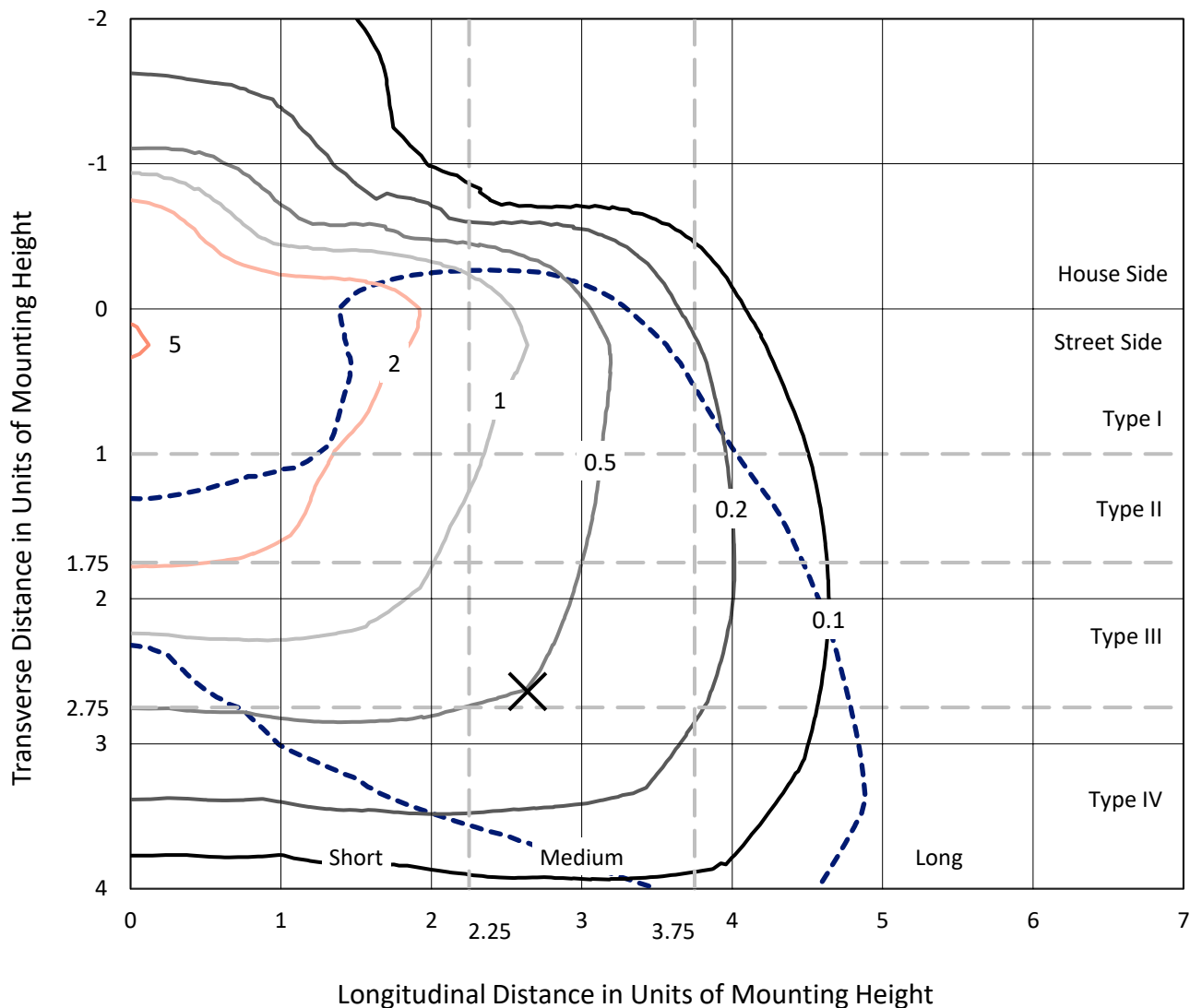
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

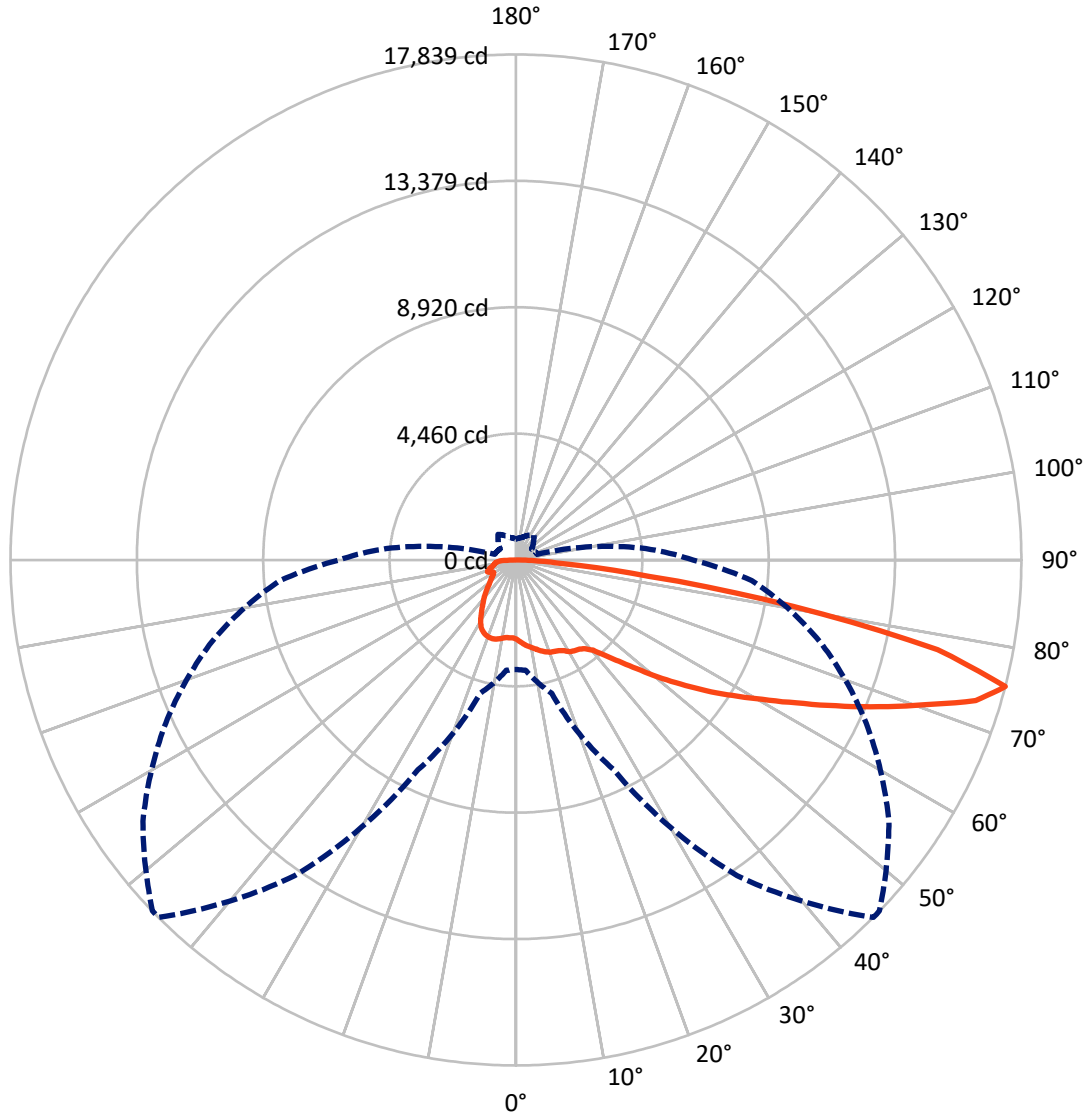
✕ Max cd
 - - - 1/2 Max cd



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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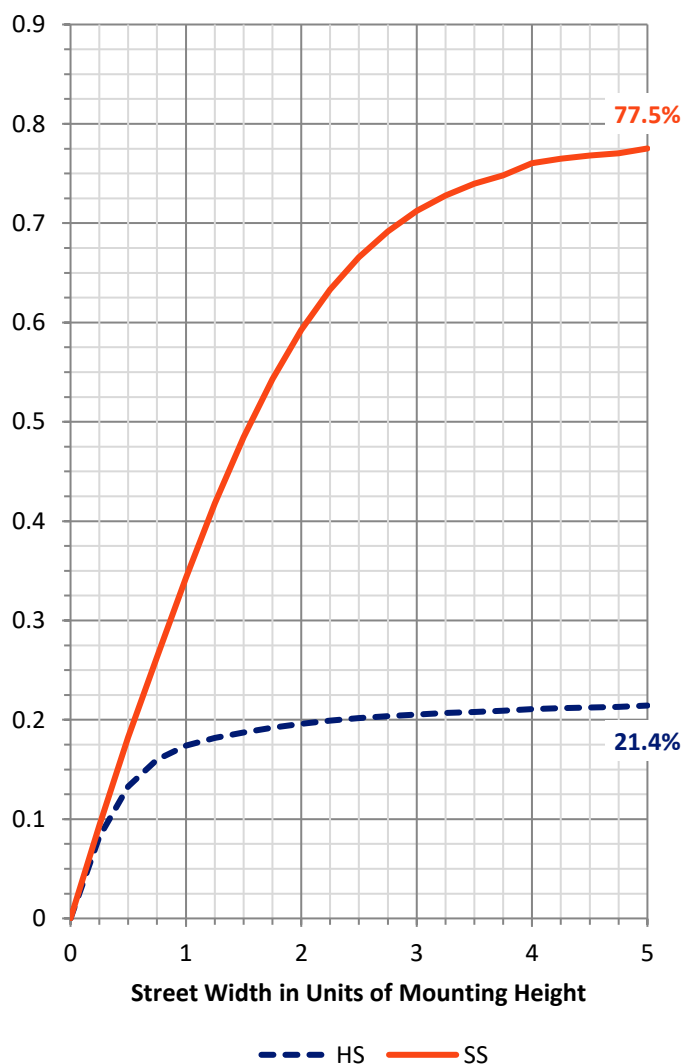
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5885.8	0.0	5885.8
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	20747.2	0.0	20747.2
	% Fixture	77.9	0.0	77.9
Total	Lumens	26633.0	0.0	26633.0
	% 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°	1500.8	5.6
30°-40°	2102.8	7.9
40°-50°	3089.3	11.6
50°-60°	4916.7	18.5
60°-70°	6994.0	26.3
70°-80°	5856.1	22.0
80°-90°	1016.3	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°	26633.0	100.0
0°-180°	26633.0	100.0

Coefficient of Utilization



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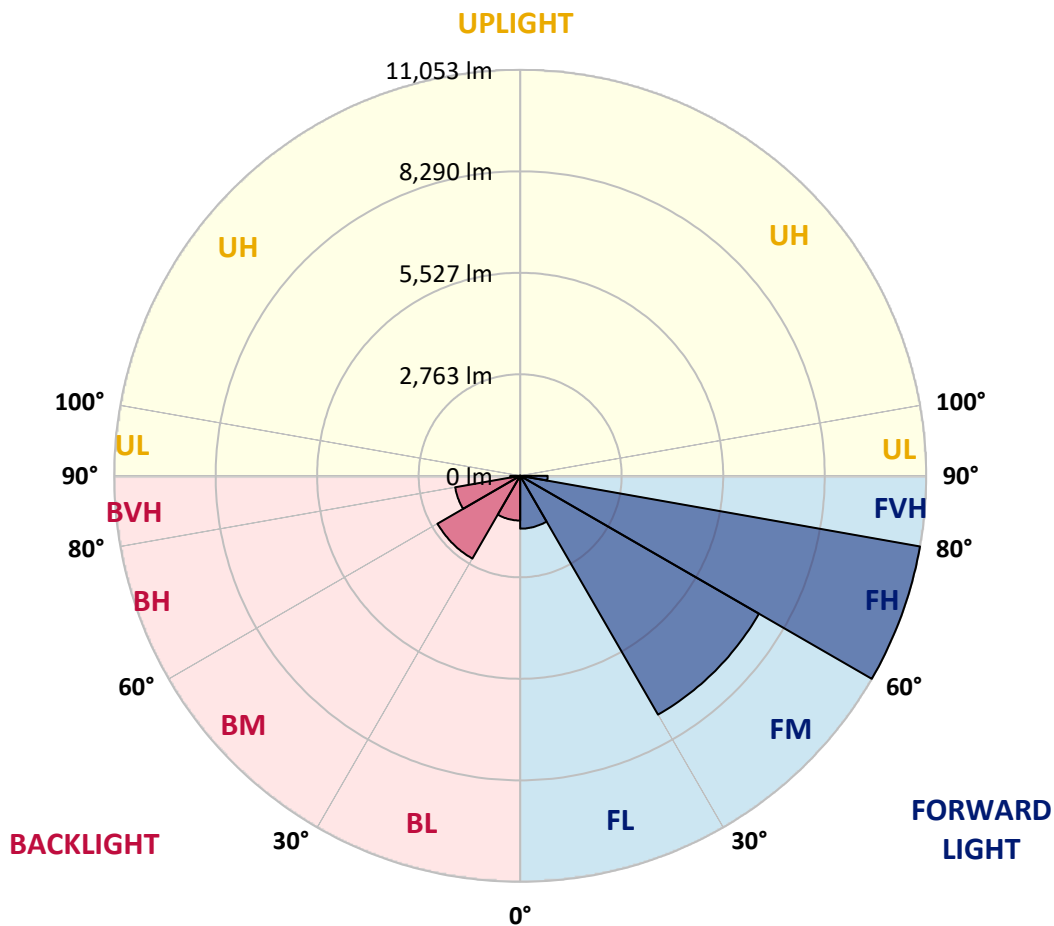
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1439.7	5.4			
FM (30°-60°)	7507.0	28.2			
FH (60°-80°)	11053.4	41.5			G4/12000
FVH (80°-90°)	747.2	2.8			G4/750
BL (0°-30°)	1218.1	4.6	B3/2500		
BM (30°-60°)	2601.8	9.8	B3/5000		
BH (60°-80°)	1796.7	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°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2957.2	2942.9	2935.8	2935.8	2907.4	2889.6	2886.0	2861.1	2839.8	2818.4	2800.6
5°	3128.0	3117.3	3096.0	3078.2	3039.0	2989.2	2982.1	2928.7	2875.3	2825.5	2782.8
7.5°	3284.6	3263.2	3238.3	3202.7	3138.7	3071.1	3060.4	2985.7	2910.9	2836.2	2779.3
10°	3416.2	3394.9	3359.3	3309.5	3227.6	3145.8	3135.1	3056.8	2978.5	2889.6	2807.7
12.5°	3540.8	3523.0	3469.6	3402.0	3305.9	3231.2	3220.5	3152.9	3071.1	2971.4	2864.7
15°	3647.5	3629.8	3572.8	3494.5	3384.2	3327.3	3313.0	3249.0	3167.1	3060.4	2950.1
17.5°	3700.9	3700.9	3640.4	3555.0	3451.8	3409.1	3398.4	3320.2	3245.4	3142.2	3031.9
20°	3718.7	3725.8	3683.1	3579.9	3491.0	3473.2	3462.5	3398.4	3313.0	3213.4	3110.2
22.5°	3729.4	3743.6	3708.0	3590.6	3515.9	3505.2	3498.1	3455.4	3387.8	3291.7	3188.5
25°	3765.0	3765.0	3740.1	3608.4	3547.9	3544.4	3544.4	3519.4	3473.2	3391.3	3288.1
27.5°	3818.4	3814.8	3782.8	3647.5	3619.1	3629.8	3626.2	3622.6	3590.6	3508.8	3398.4
30°	3907.3	3907.3	3871.7	3725.8	3708.0	3754.3	3757.9	3765.0	3715.2	3587.1	3498.1
32.5°	4042.6	4028.3	3992.7	3804.1	3775.7	3818.4	3825.5	3821.9	3779.2	3658.2	3615.5
35°	4458.9	4426.9	4298.8	3978.5	3836.2	3861.1	3864.6	3882.4	3889.5	3793.5	3772.1
37.5°	5188.4	5145.7	4950.0	4391.3	4028.3	3967.8	3964.3	4010.5	4049.7	3964.3	3964.3
40°	5982.0	5946.4	5832.5	5103.0	4384.2	4184.9	4170.7	4213.4	4263.2	4202.7	4220.5
42.5°	6665.2	6693.7	6704.4	5857.4	4918.0	4590.6	4551.4	4490.9	4569.2	4515.8	4587.0
45°	7177.7	7163.4	7359.2	6629.6	5608.3	5099.5	5046.1	4882.4	4982.0	4978.5	5135.0
47.5°	7722.1	7697.2	7779.1	7355.6	6394.8	5722.2	5640.4	5398.4	5547.8	5651.0	5910.8
50°	8238.1	8245.2	8273.7	7928.5	7248.8	6480.2	6377.0	6053.2	6266.7	6483.7	6850.3
52.5°	8910.7	8860.9	8825.3	8597.5	8206.1	7270.2	7202.6	6832.5	7131.4	7387.6	7875.1
55°	9497.9	9465.8	9444.5	9433.8	9006.8	8142.0	8070.9	7686.5	8117.1	8298.6	9017.5
57.5°	10124.2	10106.4	10220.3	10401.7	10230.9	9028.1	8953.4	8583.3	9063.7	9191.8	10255.8
60°	10583.2	10593.9	10907.1	11369.7	11252.2	9988.9	9900.0	9572.6	9985.4	10099.3	11494.2
62.5°	10586.8	10693.5	11419.5	12248.6	12383.9	11095.7	10992.5	10636.6	10932.0	10932.0	12604.5
65°	9576.2	9697.1	11327.0	12465.7	13529.7	12412.3	12312.7	11754.0	11864.3	11714.9	13647.2
67.5°	8569.1	8711.4	10245.2	12483.5	14334.0	13821.5	13704.1	12871.4	12682.8	12305.6	14376.7
70°	7900.1	7999.7	9280.8	12252.2	14817.9	15294.8	15205.8	13931.9	13326.9	12800.2	14223.7
72.5°	6651.0	6615.4	7839.6	11152.6	15088.4	16967.3	16892.6	15084.8	13885.6	12565.4	12131.2
75°	3861.1	3903.8	4864.6	8170.5	13600.9	17839.2	17832.1	16070.6	13640.1	11099.2	8359.1
77.5°	1113.8	1145.9	1597.8	3590.6	8601.1	15216.5	15704.0	14697.0	11529.8	7910.7	4334.4
80°	487.5	512.4	693.9	1195.7	3704.5	9939.1	10366.2	9939.1	6953.5	3629.8	1701.0
82.5°	288.2	306.0	451.9	740.2	1775.7	4729.4	5305.9	4633.3	2999.9	1540.9	704.6
85°	163.7	170.8	259.8	469.7	1117.4	1654.7	1857.6	1740.1	1462.6	875.4	370.1
87.5°	74.7	78.3	128.1	220.6	626.3	558.7	580.0	768.7	846.9	533.8	185.0
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°	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0	2797.0
2.5°	2793.5	2782.8	2761.5	2754.3	2743.7	2747.2	2750.8	2750.8	2754.3	2743.7	2743.7
5°	2765.0	2747.2	2725.9	2725.9	2725.9	2754.3	2779.3	2793.5	2800.6	2800.6	2793.5
7.5°	2754.3	2733.0	2708.1	2715.2	2722.3	2757.9	2804.2	2850.4	2864.7	2864.7	2857.5
10°	2775.7	2754.3	2736.6	2747.2	2765.0	2793.5	2829.1	2871.8	2907.4	2910.9	2907.4
12.5°	2825.5	2800.6	2782.8	2804.2	2825.5	2843.3	2861.1	2878.9	2925.2	2932.3	2932.3
15°	2907.4	2882.5	2861.1	2878.9	2886.0	2886.0	2886.0	2886.0	2932.3	2939.4	2939.4
17.5°	2989.2	2967.9	2946.5	2950.1	2928.7	2900.2	2889.6	2886.0	2910.9	2932.3	2935.8
20°	3067.5	3049.7	3028.4	2992.8	2939.4	2886.0	2868.2	2868.2	2882.5	2914.5	2914.5
22.5°	3152.9	3131.6	3096.0	3014.1	2925.2	2850.4	2832.6	2843.3	2861.1	2903.8	2900.2
25°	3249.0	3220.5	3160.0	3007.0	2878.9	2789.9	2793.5	2825.5	2857.5	2903.8	2903.8
27.5°	3355.7	3316.6	3195.6	2950.1	2775.7	2690.3	2722.3	2797.0	2843.3	2893.1	2900.2
30°	3473.2	3437.6	3224.1	2850.4	2608.4	2530.2	2608.4	2729.4	2800.6	2846.9	2857.5
32.5°	3615.5	3587.1	3249.0	2722.3	2391.4	2323.8	2437.6	2587.1	2701.0	2754.3	2765.0
35°	3793.5	3765.0	3281.0	2576.4	2188.5	2117.4	2220.6	2373.6	2523.0	2590.6	2612.0
37.5°	4024.8	3982.1	3309.5	2419.8	2017.7	1935.9	1985.7	2124.5	2259.7	2352.2	2377.1
40°	4320.1	4252.5	3334.4	2241.9	1868.3	1775.7	1793.5	1861.1	1939.4	2021.3	2053.3
42.5°	4736.5	4601.3	3338.0	2053.3	1715.2	1629.8	1622.7	1644.1	1644.1	1644.1	1654.7
45°	5316.5	5060.3	3345.1	1875.4	1558.7	1469.7	1448.3	1441.2	1387.8	1284.6	1277.5
47.5°	6049.6	5661.7	3377.1	1725.9	1395.0	1316.7	1288.2	1259.7	1160.1	1053.3	1032.0
50°	6989.1	6359.2	3441.2	1583.6	1256.2	1202.8	1167.2	1099.6	989.3	907.4	886.1
52.5°	8070.9	7188.3	3501.6	1434.1	1153.0	1117.4	1074.7	992.8	875.4	825.6	818.5
55°	9312.8	8113.6	3622.6	1302.4	1064.0	1039.1	1000.0	921.7	832.7	797.1	793.6
57.5°	10583.2	9149.1	3793.5	1185.0	978.6	964.4	964.4	896.8	839.8	825.6	825.6
60°	11807.4	10038.8	3661.8	1074.7	900.3	907.4	975.1	957.3	914.6	932.3	943.0
62.5°	12757.5	10561.9	2971.4	985.7	843.4	907.4	1081.8	1081.8	1032.0	1024.9	1024.9
65°	13163.2	10554.8	2088.9	918.1	822.0	996.4	1206.4	1149.4	1017.8	967.9	957.3
67.5°	13060.0	10092.1	1441.2	871.9	814.9	1088.9	1263.3	1103.2	953.7	911.0	879.0
70°	12152.6	9113.5	1110.3	829.2	804.2	1049.8	1245.5	1049.8	903.9	864.7	836.3
72.5°	9803.9	7309.3	921.7	786.4	761.5	971.5	1185.0	1000.0	864.7	822.0	793.6
75°	6252.4	4597.7	779.3	729.5	679.7	871.9	1103.2	950.1	822.0	765.1	743.7
77.5°	3007.0	1982.1	679.7	661.9	612.1	807.8	1021.3	886.1	765.1	718.8	704.6
80°	1217.0	907.4	590.7	594.3	562.3	768.7	964.4	825.6	708.2	658.3	633.4
82.5°	633.4	526.7	498.2	512.4	512.4	733.1	921.7	775.8	658.3	637.0	555.1
85°	341.6	327.4	384.3	412.8	444.8	661.9	857.6	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	409.2
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)