

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: P399357

Luminaire Tested: **ARCH-L-PA3-130-740-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399357
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-PA3-130-740-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 4000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21061 lumens
Efficiency: N/A
Efficacy: 158.4 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

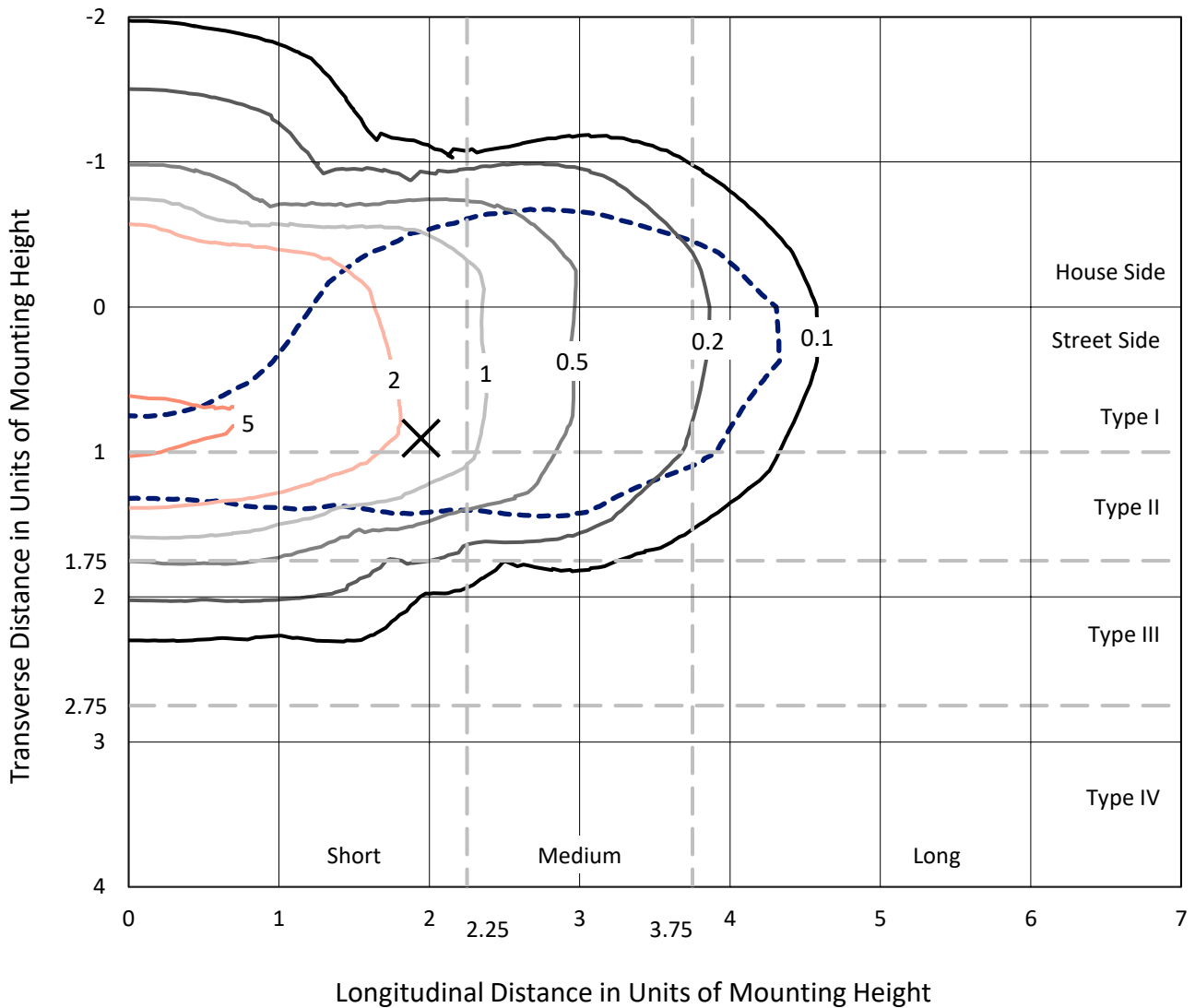
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

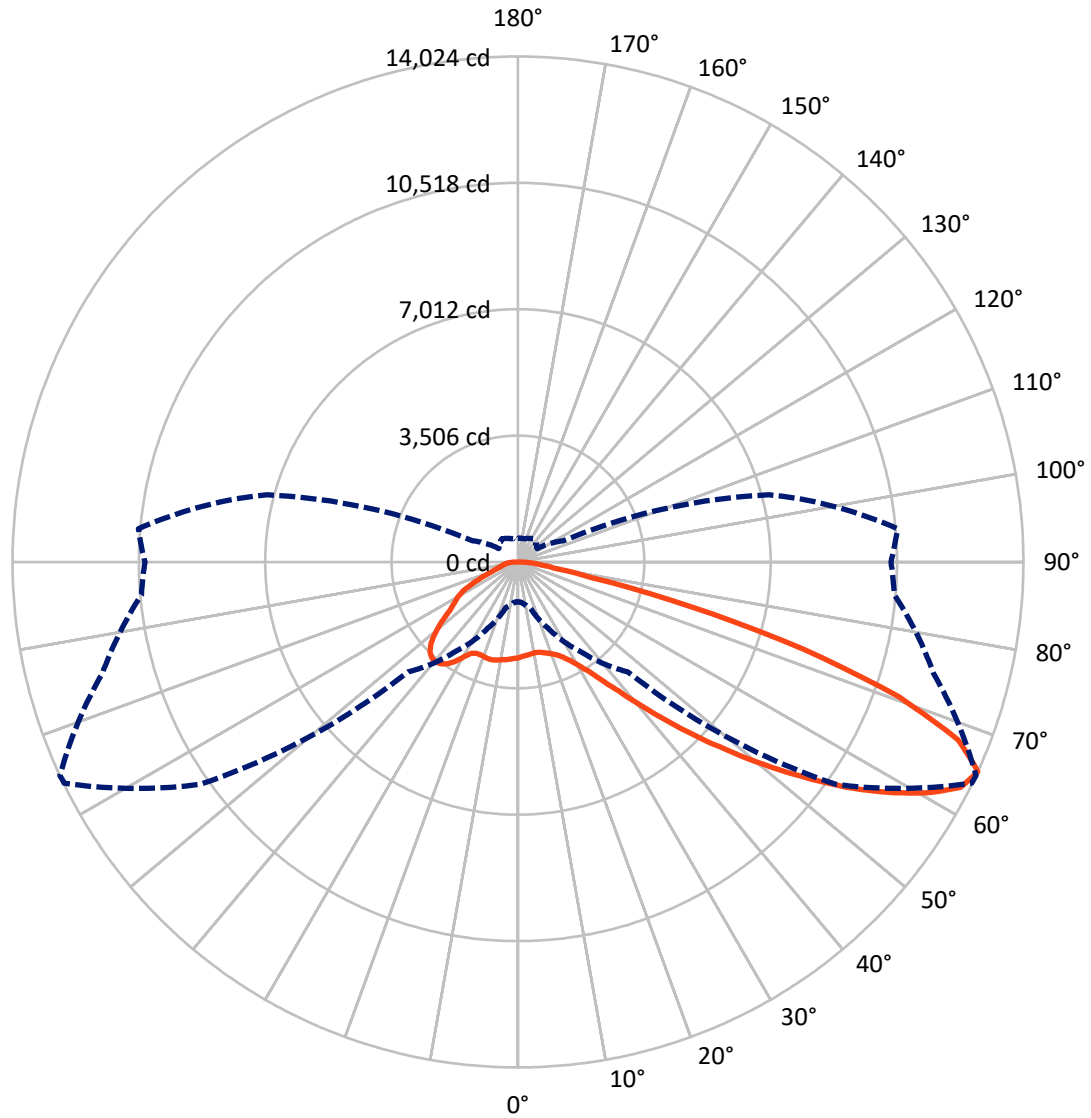
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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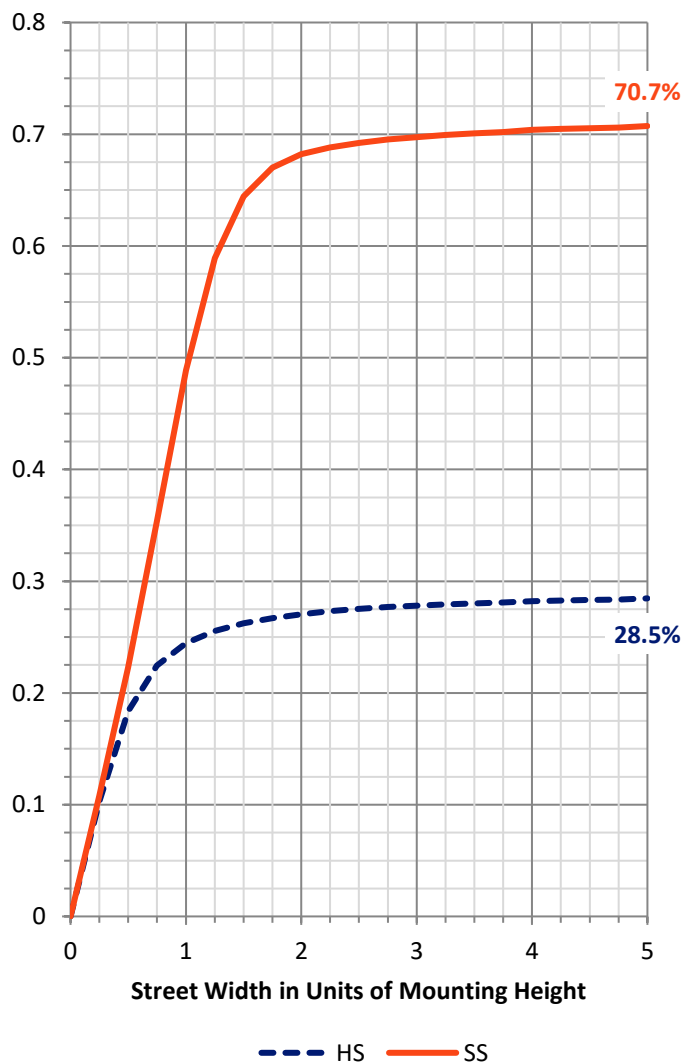
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6089.0	0.0	6089.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	14972.0	0.0	14972.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	21061.0	0.0	21061.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.2
10°-20°	757.0	3.6
20°-30°	1344.6	6.4
30°-40°	2274.7	10.8
40°-50°	3959.9	18.8
50°-60°	5117.4	24.3
60°-70°	4478.0	21.3
70°-80°	2435.7	11.6
80°-90°	440.1	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°	21061.0	100.0
0°-180°	21061.0	100.0

Coefficient of Utilization



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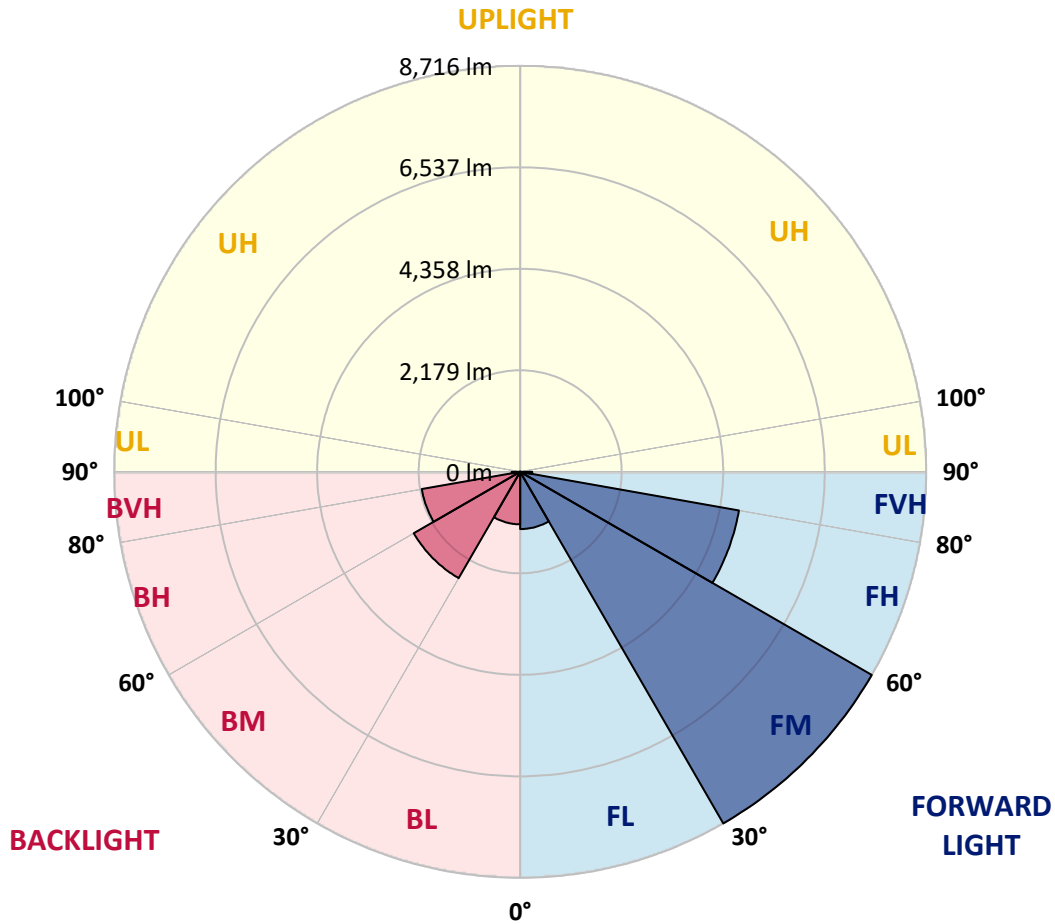
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1228.9	5.8			
FM (30°-60°)	8715.6	41.4			
FH (60°-80°)	4768.5	22.6			G2/5000
FVH (80°-90°)	259.0	1.2			G3/500
BL (0°-30°)	1126.3	5.3	B3/2500		
BM (30°-60°)	2636.4	12.5	B3/5000		
BH (60°-80°)	2145.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	181.1	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3
2.5°	2614.1	2611.4	2605.8	2611.4	2614.1	2619.7	2616.9	2622.5	2619.7	2628.0	2641.9
5°	2547.6	2542.1	2539.3	2553.1	2561.5	2575.3	2580.9	2600.3	2597.5	2611.4	2633.5
7.5°	2472.8	2472.8	2470.0	2486.6	2497.7	2522.7	2542.1	2575.3	2578.1	2603.0	2628.0
10°	2414.5	2417.3	2414.5	2428.4	2445.0	2475.5	2508.8	2555.9	2558.7	2594.7	2619.7
12.5°	2392.4	2392.4	2392.4	2411.8	2433.9	2475.5	2514.3	2564.2	2569.8	2608.6	2630.8
15°	2422.9	2425.6	2420.1	2439.5	2464.4	2514.3	2550.4	2603.0	2608.6	2644.6	2658.5
17.5°	2531.0	2542.1	2528.2	2539.3	2533.7	2572.6	2605.8	2658.5	2661.3	2691.8	2697.3
20°	2744.4	2755.5	2733.3	2719.5	2669.6	2666.8	2680.7	2722.2	2722.2	2741.7	2727.8
22.5°	3074.3	3085.4	3046.6	2993.9	2874.7	2816.5	2786.0	2805.4	2802.6	2811.0	2774.9
25°	3512.3	3509.5	3462.4	3365.4	3174.1	3032.7	2957.9	2927.4	2927.4	2910.8	2866.4
27.5°	4055.6	4014.1	3930.9	3814.5	3548.3	3351.5	3190.7	3113.1	3099.3	3049.4	2966.2
30°	4635.0	4604.5	4485.3	4316.2	4008.5	3756.3	3490.1	3334.9	3326.6	3218.5	3093.7
32.5°	5317.0	5267.1	5134.0	4931.6	4563.0	4208.1	3875.5	3639.8	3626.0	3454.1	3282.2
35°	6193.0	6151.4	5893.6	5691.2	5217.2	4751.5	4357.8	4044.6	4033.5	3822.8	3603.8
37.5°	7243.6	7135.5	6886.0	6506.2	6007.2	5455.6	4956.6	4563.0	4549.1	4316.2	4039.0
40°	8180.6	8083.6	7861.8	7512.5	6977.5	6364.8	5688.4	5211.6	5197.8	4915.0	4565.7
42.5°	8873.6	8807.1	8663.0	8460.6	8078.0	7706.6	6622.7	5996.2	5971.2	5605.3	5170.1
45°	9275.6	9222.9	9139.8	9189.7	9184.1	9114.8	7737.1	6930.4	6850.0	6375.9	5843.7
47.5°	9178.6	9131.4	9164.7	9552.8	10087.8	10489.8	9034.4	7886.8	7778.6	7160.5	6561.7
50°	8477.2	8496.6	8671.3	9414.2	10614.5	11507.2	10473.2	8976.2	8832.1	7950.5	7243.6
52.5°	7199.3	7246.4	7670.5	8710.1	10556.3	12166.9	11773.3	10101.7	9910.4	8721.2	7864.6
55°	5718.9	5838.1	6387.0	7479.3	9796.8	12214.1	12754.6	11232.7	11022.1	9444.7	8405.1
57.5°	4230.3	4407.7	5042.5	6046.1	8341.4	11468.4	13245.3	12313.9	12058.8	10162.7	8976.2
60°	2683.4	2791.6	3523.4	4707.1	6384.3	9644.3	13181.6	13234.2	13012.5	10877.9	9572.2
62.5°	1713.2	1765.9	2134.6	3357.1	4463.2	7141.0	12485.7	13930.0	13780.3	11529.4	10137.7
65°	1100.5	1122.7	1311.2	2065.2	3038.3	4310.7	10753.2	14004.9	14024.3	11936.9	10487.0
67.5°	895.4	906.5	975.8	1275.2	2148.4	2381.3	7490.3	12940.4	13176.0	11831.5	10367.8
70°	815.0	828.9	900.9	1017.4	1663.3	1643.9	3626.0	10828.0	11213.3	11224.4	9838.3
72.5°	687.5	706.9	803.9	961.9	1286.3	1297.4	1535.8	7712.1	8280.4	10032.4	9042.7
75°	573.8	584.9	668.1	848.3	1089.5	1036.8	1078.4	4088.9	4909.5	8044.8	8197.2
77.5°	465.7	476.8	537.8	676.4	967.5	806.7	848.3	1693.8	2093.0	5461.1	6700.3
80°	332.7	343.7	413.0	526.7	731.8	726.3	629.3	934.2	1014.6	2952.3	4352.3
82.5°	238.4	246.7	313.3	377.0	507.3	729.1	474.0	634.8	665.3	1308.5	1754.8
85°	160.8	160.8	216.2	249.5	327.1	460.2	382.6	429.7	449.1	621.0	474.0
87.5°	69.3	69.3	116.4	127.5	171.9	213.5	285.5	216.2	221.8	335.4	194.1
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°	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3	2661.3
2.5°	2650.2	2652.9	2658.5	2675.1	2686.2	2702.8	2711.2	2722.2	2722.2	2716.7	2719.5
5°	2644.6	2652.9	2672.3	2702.8	2722.2	2752.7	2774.9	2791.6	2797.1	2791.6	2794.3
7.5°	2641.9	2655.7	2689.0	2733.3	2761.1	2799.9	2830.4	2849.8	2863.6	2858.1	2860.9
10°	2633.5	2655.7	2697.3	2752.7	2794.3	2833.1	2860.9	2869.2	2877.5	2871.9	2869.2
12.5°	2644.6	2669.6	2713.9	2780.5	2827.6	2858.1	2866.4	2852.5	2833.1	2822.0	2819.3
15°	2666.8	2691.8	2736.1	2805.4	2847.0	2858.1	2838.7	2794.3	2750.0	2725.0	2722.2
17.5°	2697.3	2713.9	2750.0	2811.0	2844.2	2830.4	2791.6	2738.9	2705.6	2686.2	2689.0
20°	2716.7	2716.7	2744.4	2791.6	2819.3	2808.2	2761.1	2702.8	2650.2	2625.2	2616.9
22.5°	2744.4	2730.6	2733.3	2774.9	2813.7	2797.1	2697.3	2594.7	2519.9	2492.2	2489.4
25°	2819.3	2780.5	2755.5	2780.5	2871.9	2736.1	2536.5	2417.3	2348.0	2323.1	2325.8
27.5°	2910.8	2858.1	2805.4	2847.0	2919.1	2597.5	2331.4	2195.5	2154.0	2134.6	2142.9
30°	3002.2	2932.9	2863.6	3013.3	2885.8	2381.3	2068.0	1935.0	1898.9	1885.1	1896.1
32.5°	3171.3	3057.7	2974.5	3235.1	2783.2	2134.6	1782.5	1660.5	1627.2	1610.6	1605.1
35°	3454.1	3309.9	3226.8	3429.1	2639.1	1860.1	1521.9	1436.0	1399.9	1363.9	1358.4
37.5°	3861.6	3687.0	3612.1	3540.0	2436.7	1588.4	1322.3	1264.1	1211.4	1156.0	1153.2
40°	4349.5	4122.2	4066.7	3589.9	2156.7	1333.4	1183.7	1128.3	1061.7	1009.1	1011.8
42.5°	4912.2	4621.2	4502.0	3576.1	1810.2	1197.6	1083.9	1022.9	964.7	917.6	914.8
45°	5513.8	5183.9	4909.5	3479.0	1466.5	1103.3	1022.9	950.8	892.6	840.0	834.4
47.5°	6179.1	5810.4	5286.5	3290.5	1211.4	1036.8	986.9	884.3	831.6	798.4	798.4
50°	6850.0	6409.2	5633.0	3005.0	1061.7	986.9	934.2	848.3	806.7	779.0	779.0
52.5°	7423.8	7032.9	5918.5	2664.0	967.5	945.3	898.2	831.6	787.3	762.3	759.6
55°	7981.0	7612.3	6173.6	2325.8	889.9	889.9	889.9	817.8	767.9	745.7	742.9
57.5°	8535.4	8222.2	6439.7	2104.1	820.6	842.7	873.2	801.2	751.3	731.8	729.1
60°	9161.9	8954.0	6747.4	1948.8	759.6	792.8	851.0	781.7	723.5	706.9	704.1
62.5°	9827.3	9827.3	7027.4	1729.8	704.1	751.3	817.8	756.8	698.6	684.7	681.9
65°	10348.4	10573.0	7207.6	1402.7	648.7	709.7	779.0	723.5	665.3	662.5	657.0
67.5°	10409.4	10761.5	7093.9	1059.0	598.8	665.3	740.2	687.5	632.0	632.0	623.7
70°	9971.4	10329.0	6739.1	792.8	562.7	621.0	690.3	643.1	590.5	596.0	582.2
72.5°	9239.6	9328.3	5857.5	626.5	521.2	573.8	629.3	593.2	546.1	546.1	526.7
75°	8274.9	7781.4	4255.2	523.9	471.3	518.4	568.3	537.8	496.2	482.4	471.3
77.5°	6586.6	5638.5	2472.8	451.9	429.7	465.7	499.0	476.8	440.8	410.3	410.3
80°	4014.1	3304.4	1092.2	390.9	379.8	407.5	429.7	404.7	374.2	343.7	335.4
82.5°	1527.5	1275.2	529.5	335.4	332.7	349.3	365.9	341.0	318.8	304.9	263.4
85°	418.6	385.3	363.2	280.0	274.4	271.7	291.1	280.0	249.5	205.1	183.0
87.5°	158.0	180.2	196.8	171.9	183.0	169.1	194.1	177.4	158.0	102.6	91.5
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)