

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: P399636

Luminaire Tested: **ARCH-L-PA3-170-730-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399636  
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-PA3-170-730-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23714 lumens  
Efficiency: N/A  
Efficacy: 137.1 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

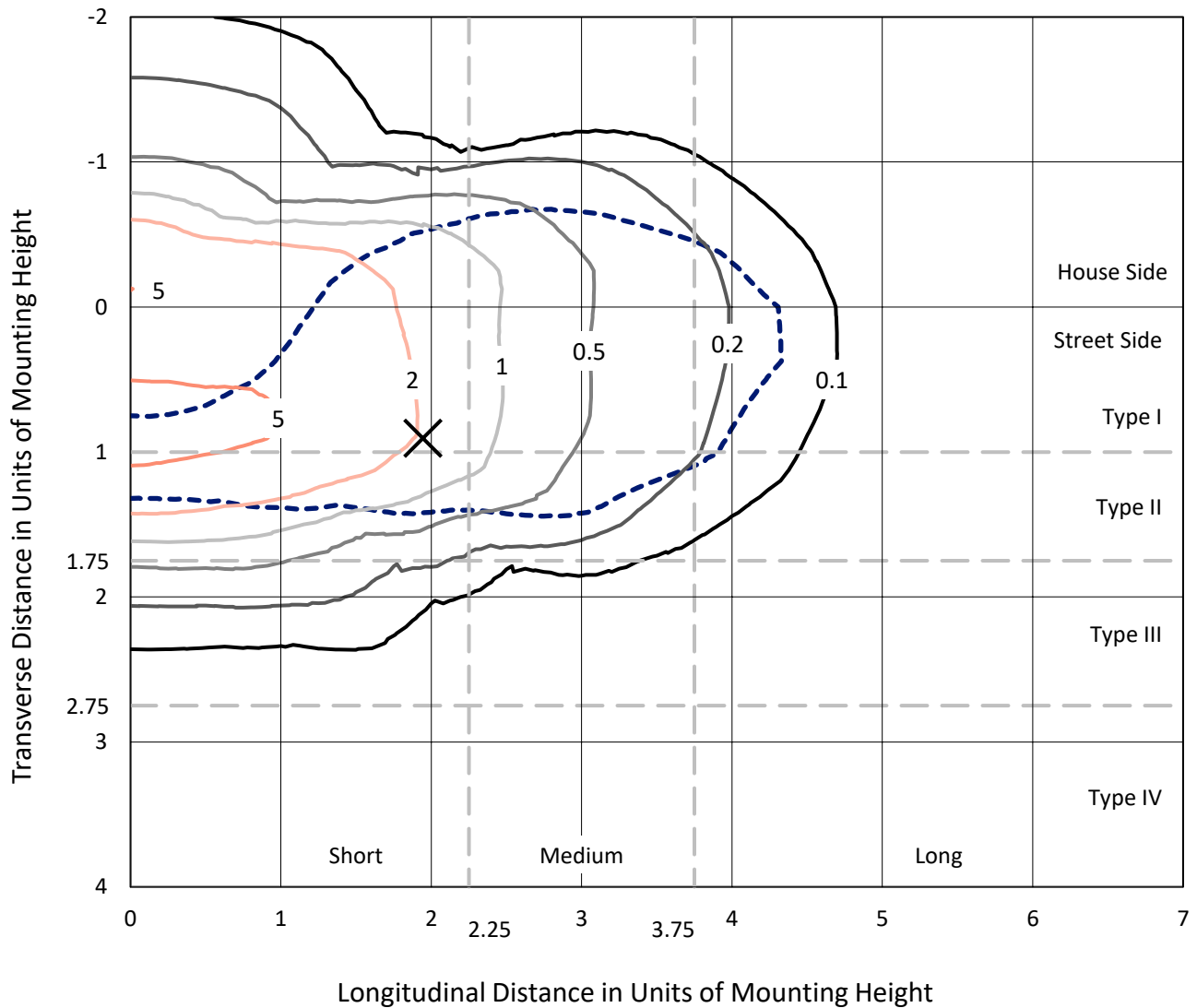
Input Watts (W): 173  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

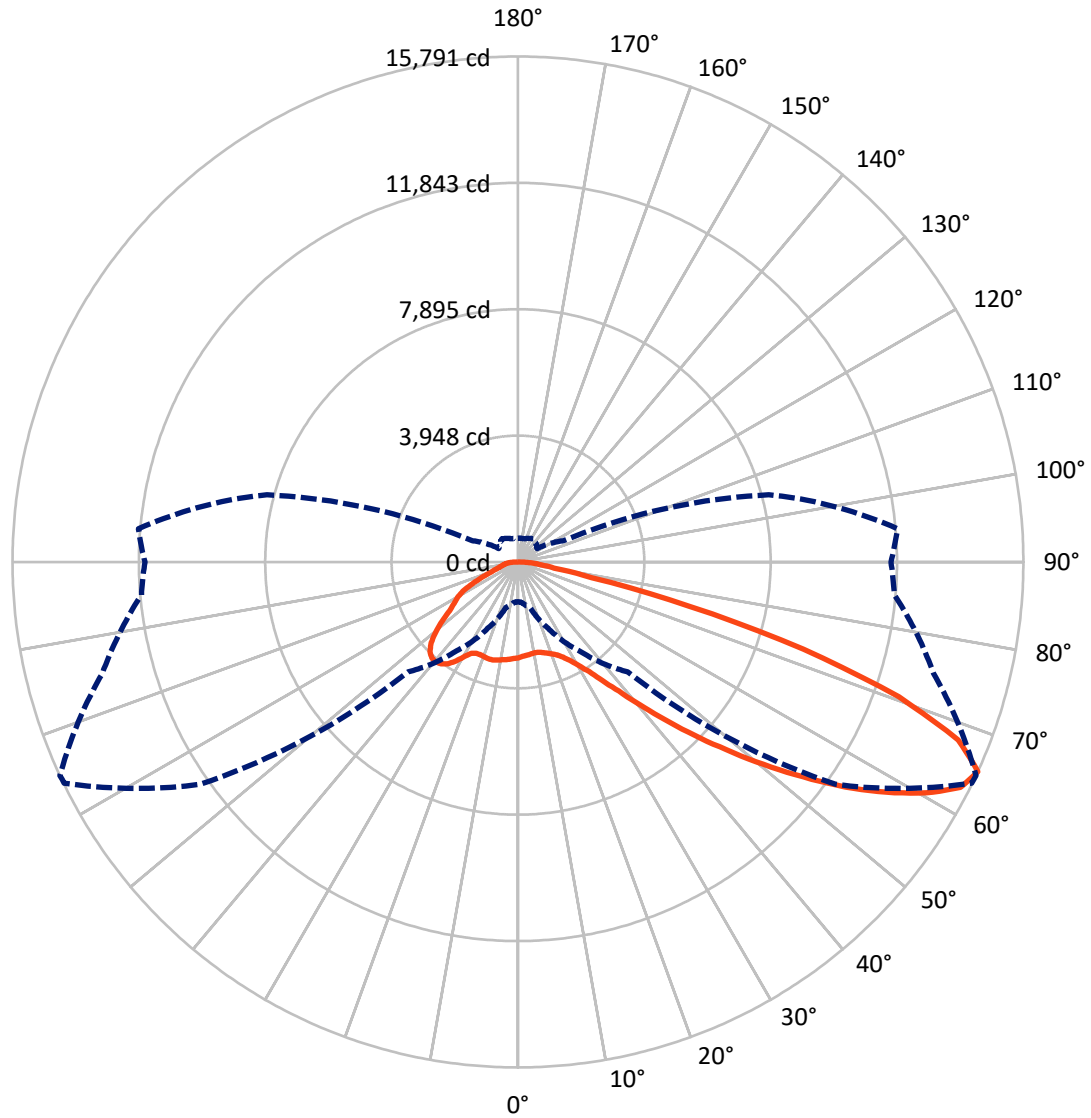
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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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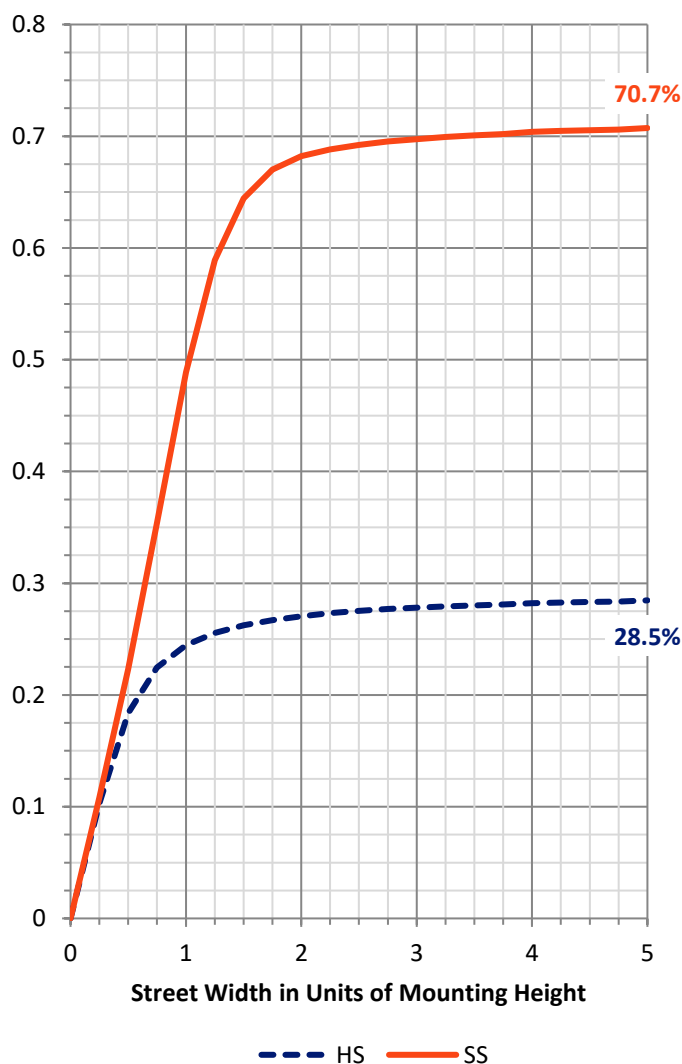
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6856.1	0.0	6856.1
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	16857.9	0.0	16857.9
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	23714.0	0.0	23714.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.5	1.2
10°-20°	852.3	3.6
20°-30°	1514.0	6.4
30°-40°	2561.3	10.8
40°-50°	4458.7	18.8
50°-60°	5762.1	24.3
60°-70°	5042.1	21.3
70°-80°	2742.5	11.6
80°-90°	495.5	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°	23714.0	100.0
0°-180°	23714.0	100.0

**Coefficient of Utilization**



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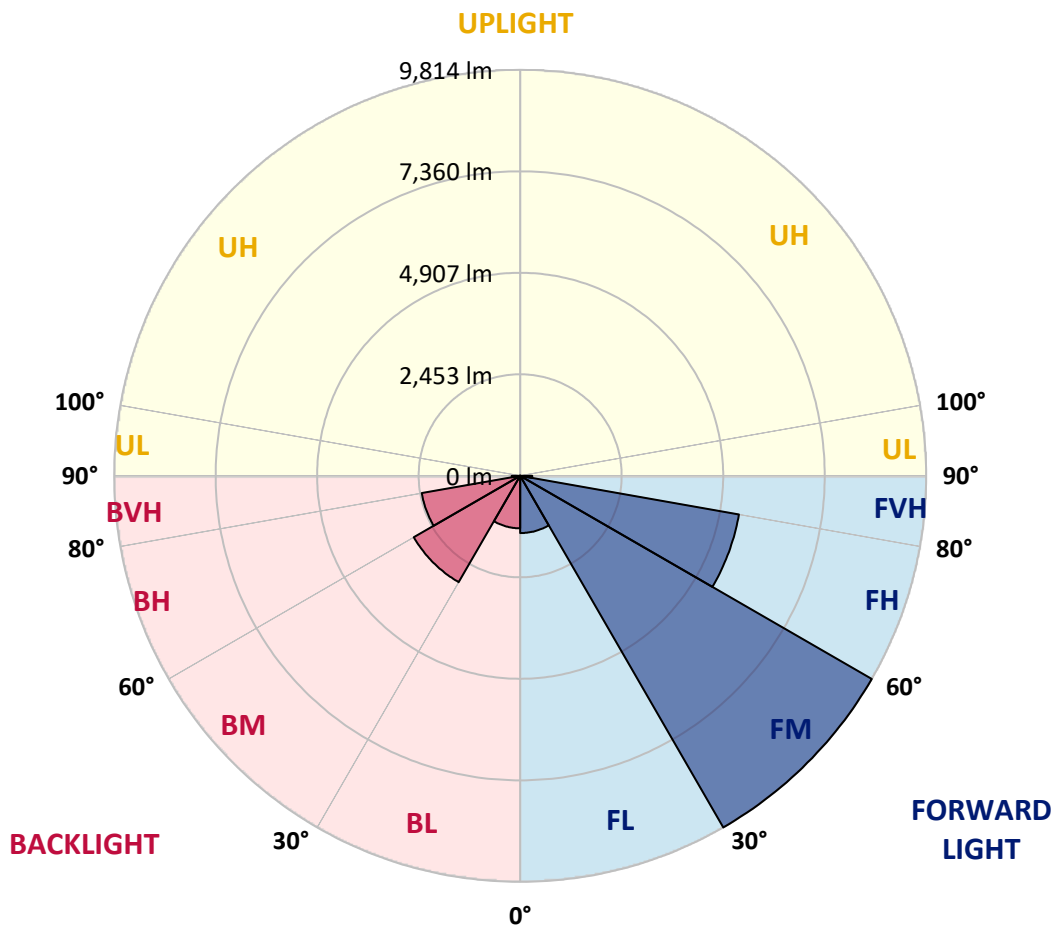
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1383.6	5.8			
FM (30°-60°)	9813.5	41.4			
FH (60°-80°)	5369.2	22.6			G3/7500
FVH (80°-90°)	291.6	1.2			G3/500
BL (0°-30°)	1268.1	5.3	B3/2500		
BM (30°-60°)	2968.5	12.5	B3/5000		
BH (60°-80°)	2415.5	10.2	B3/2500		G3/2500
BVH (80°-90°)	203.9	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°	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5
2.5°	2943.4	2940.3	2934.1	2940.3	2943.4	2949.7	2946.6	2952.8	2949.7	2959.0	2974.6
5°	2868.5	2862.3	2859.2	2874.8	2884.1	2899.7	2906.0	2927.8	2924.7	2940.3	2965.3
7.5°	2784.2	2784.2	2781.1	2799.8	2812.3	2840.4	2862.3	2899.7	2902.9	2930.9	2959.0
10°	2718.7	2721.8	2718.7	2734.3	2753.0	2787.4	2824.8	2877.9	2881.0	2921.6	2949.7
12.5°	2693.7	2693.7	2693.7	2715.6	2740.5	2787.4	2831.1	2887.2	2893.5	2937.2	2962.2
15°	2728.1	2731.2	2724.9	2746.8	2774.9	2831.1	2871.6	2930.9	2937.2	2977.8	2993.4
17.5°	2849.8	2862.3	2846.7	2859.2	2852.9	2896.6	2934.1	2993.4	2996.5	3030.8	3037.1
20°	3090.1	3102.6	3077.6	3062.0	3005.9	3002.7	3018.3	3065.2	3065.2	3087.0	3071.4
22.5°	3461.6	3474.1	3430.4	3371.1	3236.8	3171.3	3137.0	3158.8	3155.7	3165.0	3124.5
25°	3954.7	3951.6	3898.6	3789.3	3573.9	3414.8	3330.5	3296.1	3296.1	3277.4	3227.5
27.5°	4566.5	4519.7	4426.1	4295.0	3995.3	3773.7	3592.7	3505.3	3489.7	3433.5	3339.8
30°	5218.9	5184.6	5050.3	4859.9	4513.5	4229.4	3929.8	3755.0	3745.6	3623.9	3483.4
32.5°	5986.7	5930.6	5780.7	5552.9	5137.7	4738.2	4363.6	4098.3	4082.7	3889.2	3695.7
35°	6973.1	6926.3	6636.0	6408.1	5874.4	5350.0	4906.8	4554.0	4541.6	4304.3	4057.8
37.5°	8156.1	8034.3	7753.4	7325.8	6764.0	6142.8	5581.0	5137.7	5122.1	4859.9	4547.8
40°	9211.1	9101.8	8852.1	8458.8	7856.4	7166.6	6405.0	5868.1	5852.5	5534.1	5140.9
42.5°	9991.4	9916.5	9754.2	9526.3	9095.6	8677.3	7456.9	6751.5	6723.4	6311.4	5821.3
45°	10444.0	10384.7	10291.1	10347.3	10341.0	10263.0	8711.7	7803.4	7712.8	7179.1	6579.8
47.5°	10334.8	10281.7	10319.2	10756.2	11358.6	11811.2	10172.5	8880.2	8758.5	8062.4	7388.2
50°	9545.1	9566.9	9763.6	10600.1	11951.6	12956.7	11792.4	10106.9	9944.6	8952.0	8156.1
52.5°	8106.1	8159.2	8636.8	9807.3	11886.1	13699.6	13256.4	11374.2	11158.8	9819.8	8855.3
55°	6439.3	6573.6	7191.6	8421.4	11030.8	13752.7	14361.3	12647.7	12410.5	10634.4	9463.9
57.5°	4763.2	4962.9	5677.7	6807.7	9392.1	12913.0	14913.8	13865.0	13577.9	11442.9	10106.9
60°	3021.5	3143.2	3967.2	5300.0	7188.5	10859.2	14842.0	14901.3	14651.6	12248.2	10778.0
62.5°	1929.0	1988.3	2403.4	3780.0	5025.4	8040.6	14058.5	15684.8	15516.2	12981.7	11414.8
65°	1239.2	1264.1	1476.4	2325.4	3421.0	4853.7	12107.7	15769.0	15790.9	13440.5	11808.1
67.5°	1008.2	1020.7	1098.7	1435.8	2419.0	2681.2	8433.9	14570.4	14835.8	13321.9	11673.8
70°	917.7	933.3	1014.4	1145.5	1872.8	1851.0	4082.7	12192.0	12625.8	12638.3	11077.7
72.5°	774.1	795.9	905.2	1083.1	1448.3	1460.8	1729.2	8683.6	9323.5	11296.2	10181.8
75°	646.1	658.6	752.2	955.1	1226.7	1167.4	1214.2	4604.0	5527.9	9058.1	9229.8
77.5°	524.4	536.9	605.5	761.6	1089.3	908.3	955.1	1907.1	2356.6	6149.1	7544.3
80°	374.6	387.0	465.1	593.1	824.0	817.8	708.5	1051.9	1142.4	3324.2	4900.5
82.5°	268.4	277.8	352.7	424.5	571.2	820.9	533.8	714.8	749.1	1473.3	1975.8
85°	181.0	181.0	243.5	280.9	368.3	518.1	430.7	483.8	505.7	699.2	533.8
87.5°	78.0	78.0	131.1	143.6	193.5	240.3	321.5	243.5	249.7	377.7	218.5
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°	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5	2996.5
2.5°	2984.0	2987.1	2993.4	3012.1	3024.6	3043.3	3052.7	3065.2	3065.2	3058.9	3062.0
5°	2977.8	2987.1	3009.0	3043.3	3065.2	3099.5	3124.5	3143.2	3149.4	3143.2	3146.3
7.5°	2974.6	2990.2	3027.7	3077.6	3108.9	3152.6	3186.9	3208.7	3224.4	3218.1	3221.2
10°	2965.3	2990.2	3037.1	3099.5	3146.3	3190.0	3221.2	3230.6	3240.0	3233.7	3230.6
12.5°	2977.8	3005.9	3055.8	3130.7	3183.8	3218.1	3227.5	3211.9	3190.0	3177.5	3174.4
15°	3002.7	3030.8	3080.8	3158.8	3205.6	3218.1	3196.3	3146.3	3096.4	3068.3	3065.2
17.5°	3037.1	3055.8	3096.4	3165.0	3202.5	3186.9	3143.2	3083.9	3046.4	3024.6	3027.7
20°	3058.9	3058.9	3090.1	3143.2	3174.4	3161.9	3108.9	3043.3	2984.0	2955.9	2946.6
22.5°	3090.1	3074.5	3077.6	3124.5	3168.2	3149.4	3037.1	2921.6	2837.3	2806.1	2803.0
25°	3174.4	3130.7	3102.6	3130.7	3233.7	3080.8	2856.0	2721.8	2643.8	2615.7	2618.8
27.5°	3277.4	3218.1	3158.8	3205.6	3286.8	2924.7	2625.1	2472.1	2425.3	2403.4	2412.8
30°	3380.4	3302.4	3224.4	3392.9	3249.3	2681.2	2328.5	2178.7	2138.1	2122.5	2135.0
32.5°	3570.8	3442.8	3349.2	3642.6	3133.8	2403.4	2007.0	1869.7	1832.2	1813.5	1807.3
35°	3889.2	3726.9	3633.2	3861.1	2971.5	2094.4	1713.6	1616.9	1576.3	1535.7	1529.5
37.5°	4348.0	4151.4	4067.1	3986.0	2743.7	1788.5	1488.9	1423.3	1364.0	1301.6	1298.5
40°	4897.4	4641.4	4579.0	4042.1	2428.4	1501.4	1332.8	1270.4	1195.5	1136.2	1139.3
42.5°	5531.0	5203.3	5069.1	4026.5	2038.2	1348.4	1220.4	1151.8	1086.2	1033.2	1030.0
45°	6208.4	5836.9	5527.9	3917.3	1651.2	1242.3	1151.8	1070.6	1005.1	945.8	939.5
47.5°	6957.5	6542.3	5952.4	3705.0	1364.0	1167.4	1111.2	995.7	936.4	898.9	898.9
50°	7712.8	7216.6	6342.6	3383.5	1195.5	1111.2	1051.9	955.1	908.3	877.1	877.1
52.5°	8359.0	7918.9	6664.1	2999.6	1089.3	1064.4	1011.3	936.4	886.5	858.4	855.2
55°	8986.4	8571.2	6951.2	2618.8	1002.0	1002.0	1002.0	920.8	864.6	839.6	836.5
57.5°	9610.6	9257.9	7250.9	2369.1	923.9	948.9	983.2	902.1	845.9	824.0	820.9
60°	10316.0	10081.9	7597.4	2194.3	855.2	892.7	958.3	880.2	814.7	795.9	792.8
62.5°	11065.2	11065.2	7912.6	1947.7	792.8	845.9	920.8	852.1	786.6	771.0	767.9
65°	11652.0	11904.8	8115.5	1579.4	730.4	799.1	877.1	814.7	749.1	746.0	739.8
67.5°	11720.7	12117.1	7987.5	1192.4	674.2	749.1	833.4	774.1	711.7	711.7	702.3
70°	11227.5	11630.1	7588.0	892.7	633.6	699.2	777.2	724.2	664.8	671.1	655.5
72.5°	10403.4	10503.3	6595.4	705.4	586.8	646.1	708.5	668.0	614.9	614.9	593.1
75°	9317.2	8761.6	4791.3	589.9	530.6	583.7	639.9	605.5	558.7	543.1	530.6
77.5°	7416.3	6348.8	2784.2	508.8	483.8	524.4	561.8	536.9	496.3	462.0	462.0
80°	4519.7	3720.6	1229.8	440.1	427.6	458.8	483.8	455.7	421.4	387.0	377.7
82.5°	1719.9	1435.8	596.2	377.7	374.6	393.3	412.0	383.9	359.0	343.3	296.5
85°	471.3	433.9	408.9	315.3	309.0	305.9	327.7	315.3	280.9	231.0	206.0
87.5°	177.9	202.9	221.6	193.5	206.0	190.4	218.5	199.8	177.9	115.5	103.0
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)