

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: P399888

Luminaire Tested: **ARCH-L-PA3-200-827-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399888  
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-PA3-200-827-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21266 lumens  
Efficiency: N/A  
Efficacy: 105.8 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

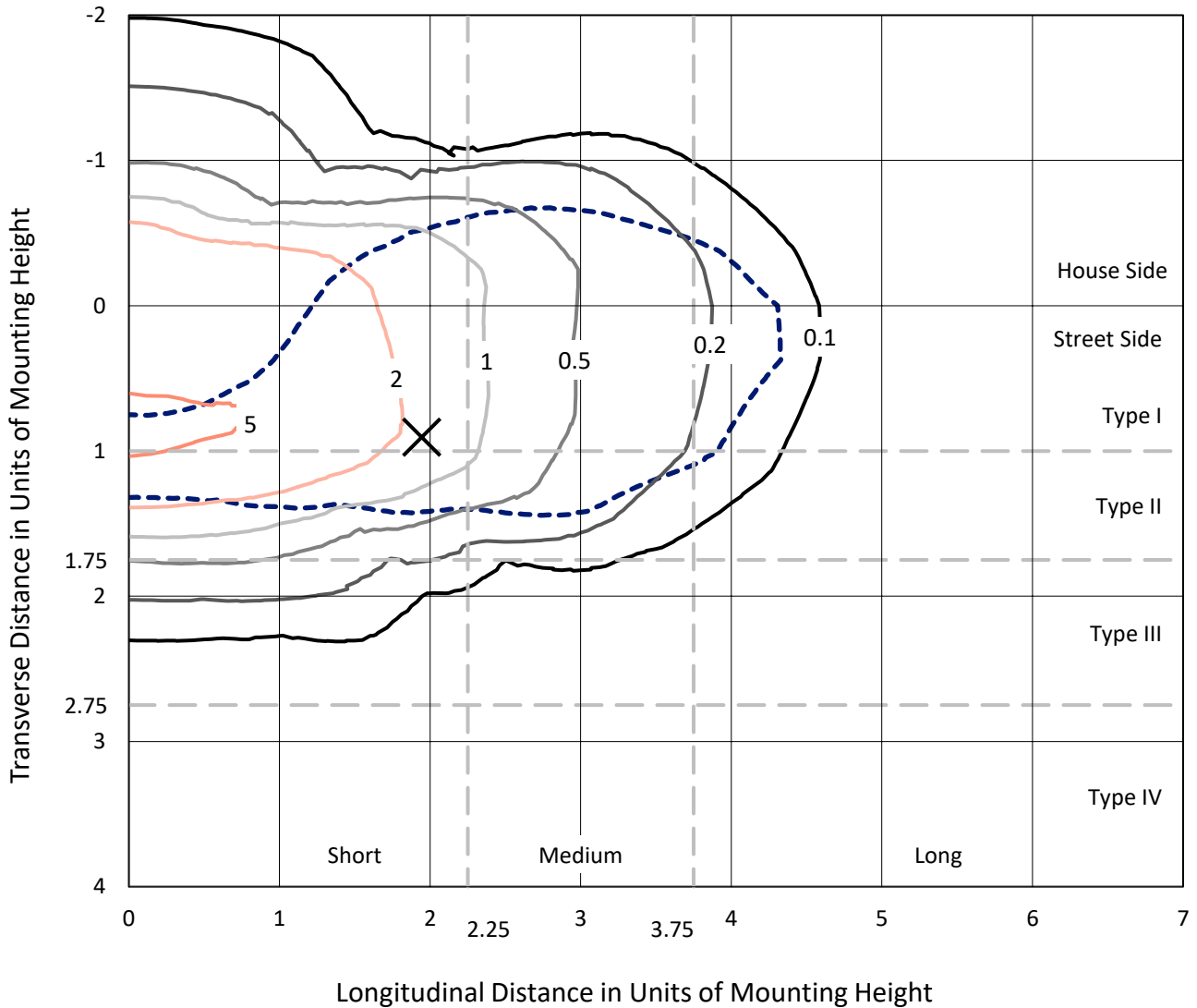
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

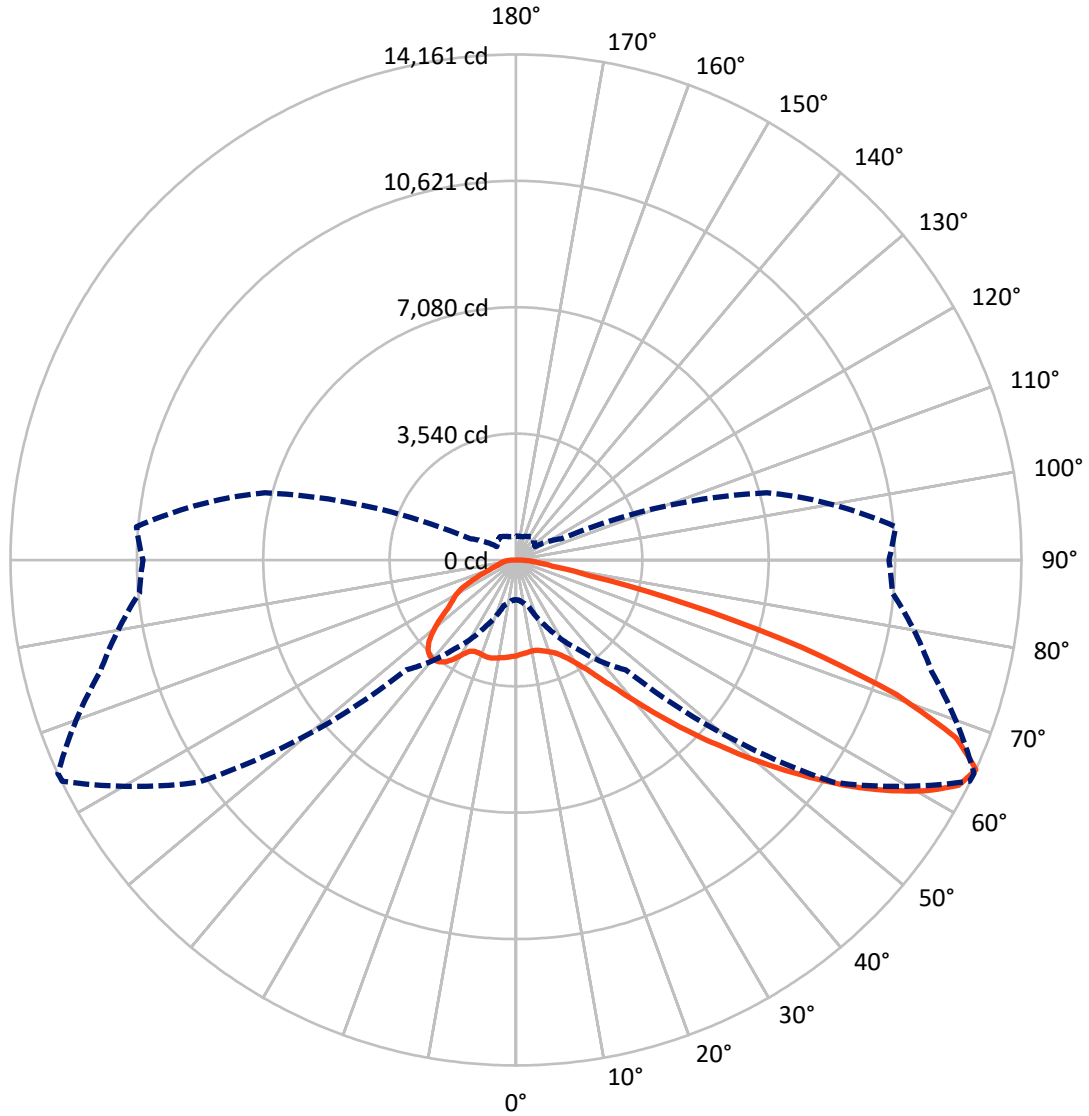
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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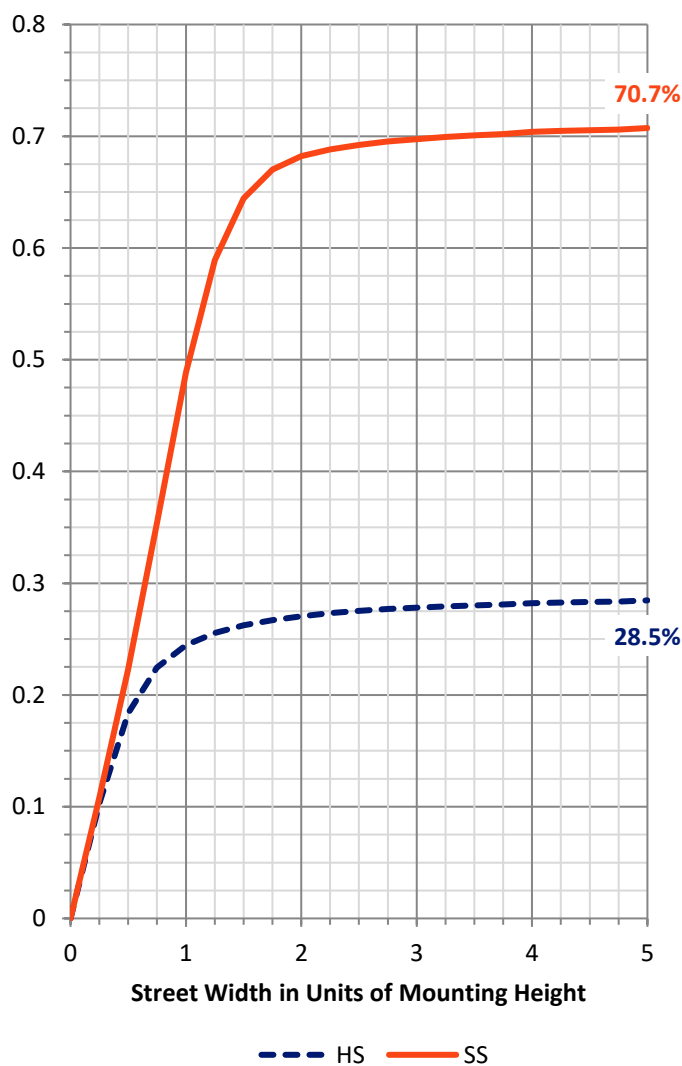
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6148.3	0.0	6148.3
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	15117.7	0.0	15117.7
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	21266.0	0.0	21266.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.0	1.2
10°-20°	764.3	3.6
20°-30°	1357.7	6.4
30°-40°	2296.9	10.8
40°-50°	3998.4	18.8
50°-60°	5167.2	24.3
60°-70°	4521.6	21.3
70°-80°	2459.4	11.6
80°-90°	444.4	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°	21266.0	100.0
0°-180°	21266.0	100.0

**Coefficient of Utilization**



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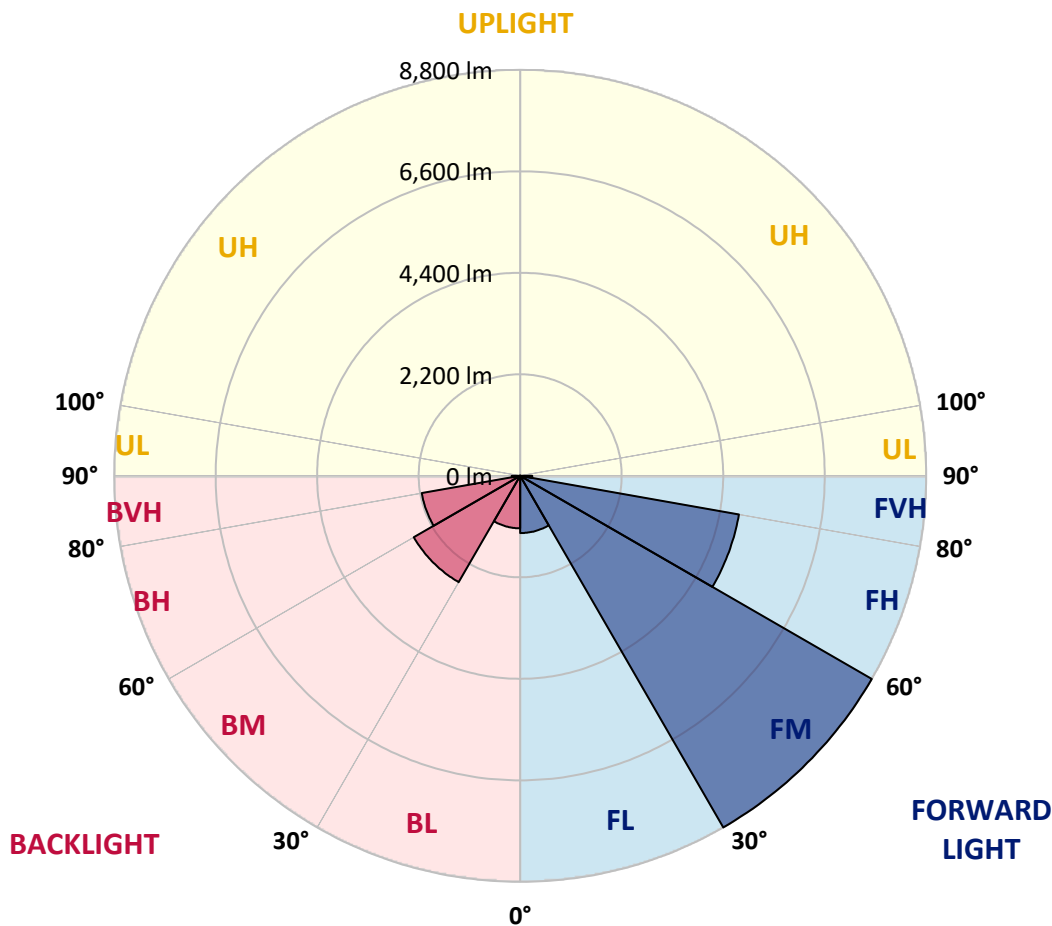
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1240.8	5.8			
FM (30°-60°)	8800.5	41.4			
FH (60°-80°)	4814.9	22.6			G2/5000
FVH (80°-90°)	261.5	1.2			G3/500
BL (0°-30°)	1137.2	5.3	B3/2500		
BM (30°-60°)	2662.1	12.5	B3/5000		
BH (60°-80°)	2166.1	10.2	B3/2500		G3/2500
BVH (80°-90°)	182.9	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°	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2
2.5°	2639.6	2636.8	2631.2	2636.8	2639.6	2645.2	2642.4	2648.0	2645.2	2653.6	2667.6
5°	2572.4	2566.8	2564.0	2578.0	2586.4	2600.4	2606.0	2625.6	2622.8	2636.8	2659.2
7.5°	2496.8	2496.8	2494.0	2510.8	2522.0	2547.2	2566.8	2600.4	2603.2	2628.4	2653.6
10°	2438.0	2440.8	2438.0	2452.0	2468.8	2499.6	2533.2	2580.8	2583.6	2620.0	2645.2
12.5°	2415.6	2415.6	2415.6	2435.2	2457.6	2499.6	2538.8	2589.2	2594.8	2634.0	2656.4
15°	2446.4	2449.2	2443.6	2463.2	2488.4	2538.8	2575.2	2628.4	2634.0	2670.4	2684.4
17.5°	2555.6	2566.8	2552.8	2564.0	2558.4	2597.6	2631.2	2684.4	2687.2	2718.0	2723.6
20°	2771.1	2782.3	2759.9	2745.9	2695.6	2692.8	2706.8	2748.7	2748.7	2768.3	2754.3
22.5°	3104.2	3115.4	3076.2	3023.1	2902.7	2843.9	2813.1	2832.7	2829.9	2838.3	2801.9
25°	3546.5	3543.7	3496.1	3398.1	3205.0	3062.2	2986.7	2955.9	2955.9	2939.1	2894.3
27.5°	4095.1	4053.1	3969.2	3851.6	3582.9	3384.1	3221.8	3143.4	3129.4	3079.0	2995.1
30°	4680.1	4649.4	4529.0	4358.2	4047.5	3792.8	3524.1	3367.4	3359.0	3249.8	3123.8
32.5°	5368.7	5318.3	5184.0	4979.7	4607.4	4249.1	3913.2	3675.3	3661.3	3487.7	3314.2
35°	6253.3	6211.3	5950.9	5746.6	5268.0	4797.7	4400.2	4083.9	4072.7	3860.0	3638.9
37.5°	7314.1	7205.0	6953.0	6569.6	6065.7	5508.7	5004.8	4607.4	4593.4	4358.2	4078.3
40°	8260.2	8162.3	7938.3	7585.6	7045.4	6426.8	5743.8	5262.4	5248.4	4962.9	4610.2
42.5°	8960.0	8892.8	8747.3	8542.9	8156.7	7781.6	6687.1	6054.5	6029.3	5659.8	5220.4
45°	9365.9	9312.7	9228.7	9279.1	9273.5	9203.5	7812.4	6997.8	6916.6	6438.0	5900.6
47.5°	9267.9	9220.3	9253.9	9645.8	10186.0	10591.9	9122.4	7963.5	7854.4	7230.2	6625.5
50°	8559.7	8579.3	8755.7	9505.8	10717.9	11619.2	10575.1	9063.6	8918.0	8027.9	7314.1
52.5°	7269.3	7316.9	7745.2	8794.9	10659.1	12285.4	11887.9	10200.0	10006.9	8806.1	7941.1
55°	5774.6	5895.0	6449.2	7552.1	9892.1	12333.0	12878.8	11342.1	11129.3	9536.6	8487.0
57.5°	4271.5	4450.6	5091.6	6104.9	8422.6	11580.0	13374.2	12433.7	12176.2	10261.6	9063.6
60°	2709.6	2818.7	3557.7	4752.9	6446.4	9738.2	13309.9	13363.0	13139.1	10983.8	9665.4
62.5°	1729.9	1783.0	2155.3	3389.7	4506.6	7210.6	12607.3	14065.6	13914.5	11641.6	10236.4
65°	1111.3	1133.6	1324.0	2085.4	3067.8	4352.6	10857.8	14141.2	14160.8	12053.0	10589.1
67.5°	904.1	915.3	985.3	1287.6	2169.3	2404.5	7563.2	13066.3	13304.3	11946.7	10468.7
70°	822.9	836.9	909.7	1027.3	1679.5	1659.9	3661.3	10933.4	11322.5	11333.7	9934.1
72.5°	694.2	713.8	811.7	971.3	1298.8	1310.0	1550.7	7787.2	8361.0	10130.0	9130.8
75°	579.4	590.6	674.6	856.5	1100.1	1046.9	1088.9	4128.7	4957.3	8123.1	8277.0
77.5°	470.3	481.5	543.0	683.0	976.9	814.5	856.5	1710.3	2113.3	5514.3	6765.5
80°	335.9	347.1	417.1	531.8	739.0	733.4	635.4	943.3	1024.5	2981.1	4394.6
82.5°	240.7	249.1	316.3	380.7	512.2	736.2	478.7	641.0	671.8	1321.2	1771.8
85°	162.3	162.3	218.3	251.9	330.3	464.7	386.3	433.9	453.5	627.0	478.7
87.5°	70.0	70.0	117.6	128.8	173.5	215.5	288.3	218.3	223.9	338.7	195.9
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°	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2	2687.2
2.5°	2676.0	2678.8	2684.4	2701.2	2712.4	2729.2	2737.5	2748.7	2748.7	2743.1	2745.9
5°	2670.4	2678.8	2698.4	2729.2	2748.7	2779.5	2801.9	2818.7	2824.3	2818.7	2821.5
7.5°	2667.6	2681.6	2715.2	2759.9	2787.9	2827.1	2857.9	2877.5	2891.5	2885.9	2888.7
10°	2659.2	2681.6	2723.6	2779.5	2821.5	2860.7	2888.7	2897.1	2905.5	2899.9	2897.1
12.5°	2670.4	2695.6	2740.3	2807.5	2855.1	2885.9	2894.3	2880.3	2860.7	2849.5	2846.7
15°	2692.8	2718.0	2762.7	2832.7	2874.7	2885.9	2866.3	2821.5	2776.7	2751.5	2748.7
17.5°	2723.6	2740.3	2776.7	2838.3	2871.9	2857.9	2818.7	2765.5	2732.0	2712.4	2715.2
20°	2743.1	2743.1	2771.1	2818.7	2846.7	2835.5	2787.9	2729.2	2676.0	2650.8	2642.4
22.5°	2771.1	2757.1	2759.9	2801.9	2841.1	2824.3	2723.6	2620.0	2544.4	2516.4	2513.6
25°	2846.7	2807.5	2782.3	2807.5	2899.9	2762.7	2561.2	2440.8	2370.9	2345.7	2348.5
27.5°	2939.1	2885.9	2832.7	2874.7	2947.5	2622.8	2354.1	2216.9	2174.9	2155.3	2163.7
30°	3031.5	2961.5	2891.5	3042.7	2913.9	2404.5	2088.2	1953.8	1917.4	1903.4	1914.6
32.5°	3202.2	3087.4	3003.5	3266.6	2810.3	2155.3	1799.8	1676.7	1643.1	1626.3	1620.7
35°	3487.7	3342.2	3258.2	3462.5	2664.8	1878.2	1536.7	1449.9	1413.6	1377.2	1371.6
37.5°	3899.2	3722.8	3647.3	3574.5	2460.4	1603.9	1335.2	1276.4	1223.2	1167.2	1164.4
40°	4391.8	4162.3	4106.3	3624.9	2177.7	1346.4	1195.2	1139.2	1072.1	1018.9	1021.7
42.5°	4960.1	4666.1	4545.8	3610.9	1827.8	1209.2	1094.5	1032.9	974.1	926.5	923.7
45°	5567.5	5234.4	4957.3	3512.9	1480.7	1114.1	1032.9	960.1	901.3	848.1	842.5
47.5°	6239.3	5867.0	5337.9	3322.6	1223.2	1046.9	996.5	892.9	839.7	806.1	806.1
50°	6916.6	6471.6	5687.8	3034.3	1072.1	996.5	943.3	856.5	814.5	786.6	786.6
52.5°	7496.1	7101.4	5976.1	2690.0	976.9	954.5	906.9	839.7	795.0	769.8	767.0
55°	8058.7	7686.4	6233.7	2348.5	898.5	898.5	898.5	825.7	775.4	753.0	750.2
57.5°	8618.5	8302.2	6502.4	2124.5	828.5	850.9	881.7	808.9	758.6	739.0	736.2
60°	9251.1	9041.2	6813.1	1967.8	767.0	800.6	859.3	789.4	730.6	713.8	711.0
62.5°	9922.9	9922.9	7095.8	1746.7	711.0	758.6	825.7	764.2	705.4	691.4	688.6
65°	10449.1	10675.9	7277.7	1416.4	655.0	716.6	786.6	730.6	671.8	669.0	663.4
67.5°	10510.7	10866.2	7163.0	1069.3	604.6	671.8	747.4	694.2	638.2	638.2	629.8
70°	10068.5	10429.6	6804.7	800.6	568.2	627.0	697.0	649.4	596.2	601.8	587.8
72.5°	9329.5	9419.1	5914.6	632.6	526.2	579.4	635.4	599.0	551.4	551.4	531.8
75°	8355.4	7857.2	4296.7	529.0	475.9	523.4	573.8	543.0	501.0	487.0	475.9
77.5°	6650.7	5693.4	2496.8	456.3	433.9	470.3	503.8	481.5	445.1	414.3	414.3
80°	4053.1	3336.6	1102.9	394.7	383.5	411.5	433.9	408.7	377.9	347.1	338.7
82.5°	1542.3	1287.6	534.6	338.7	335.9	352.7	369.5	344.3	321.9	307.9	265.9
85°	422.7	389.1	366.7	282.7	277.1	274.3	293.9	282.7	251.9	207.1	184.7
87.5°	159.6	181.9	198.7	173.5	184.7	170.7	195.9	179.1	159.6	103.6	92.4
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)