

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: P400187

Luminaire Tested: **ARCH-L-PA3-240-830-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400187
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-240-830-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 3000K, 1030mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26067 lumens
Efficiency: N/A
Efficacy: 107.7 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

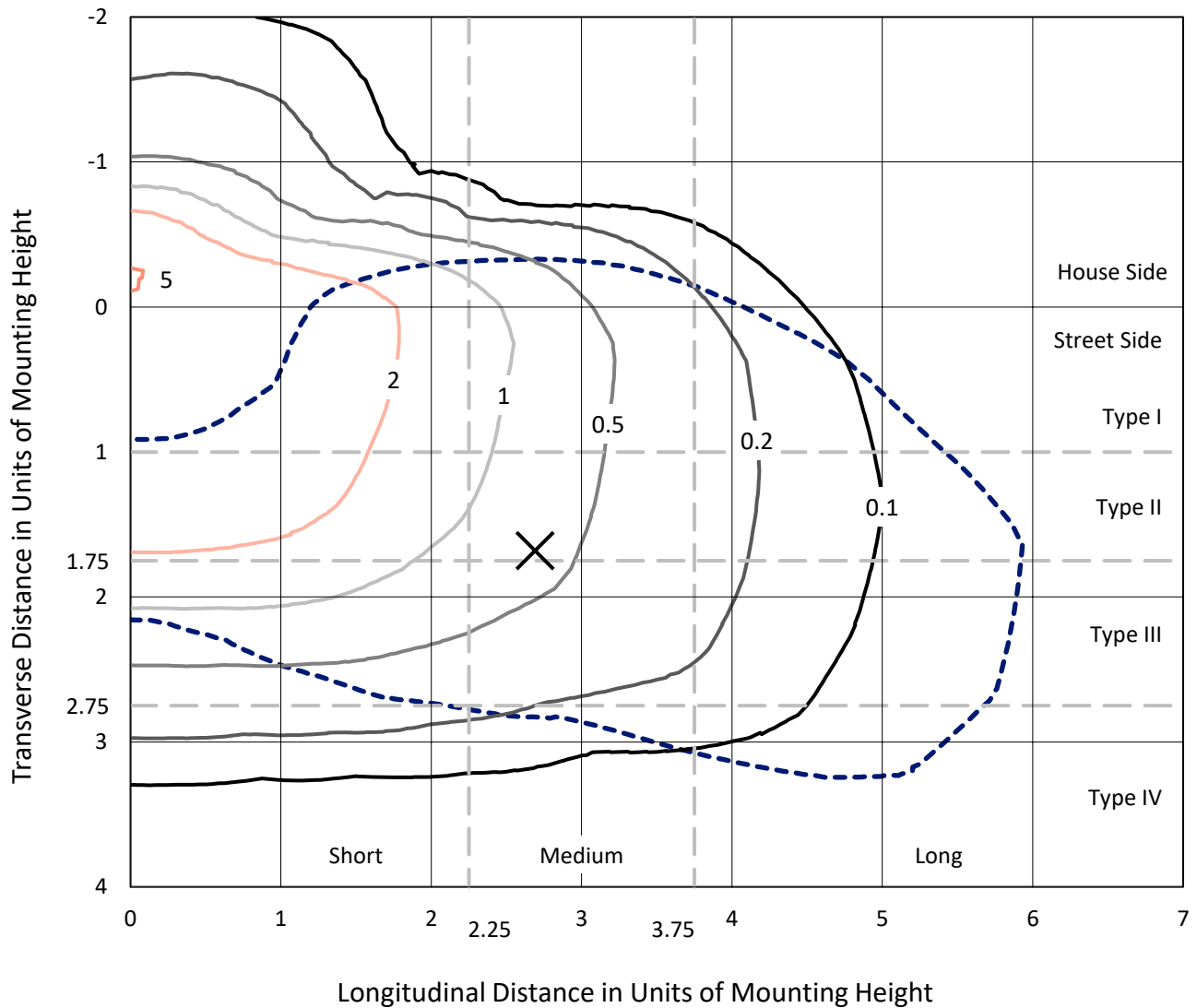
Input Watts (W): 242
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

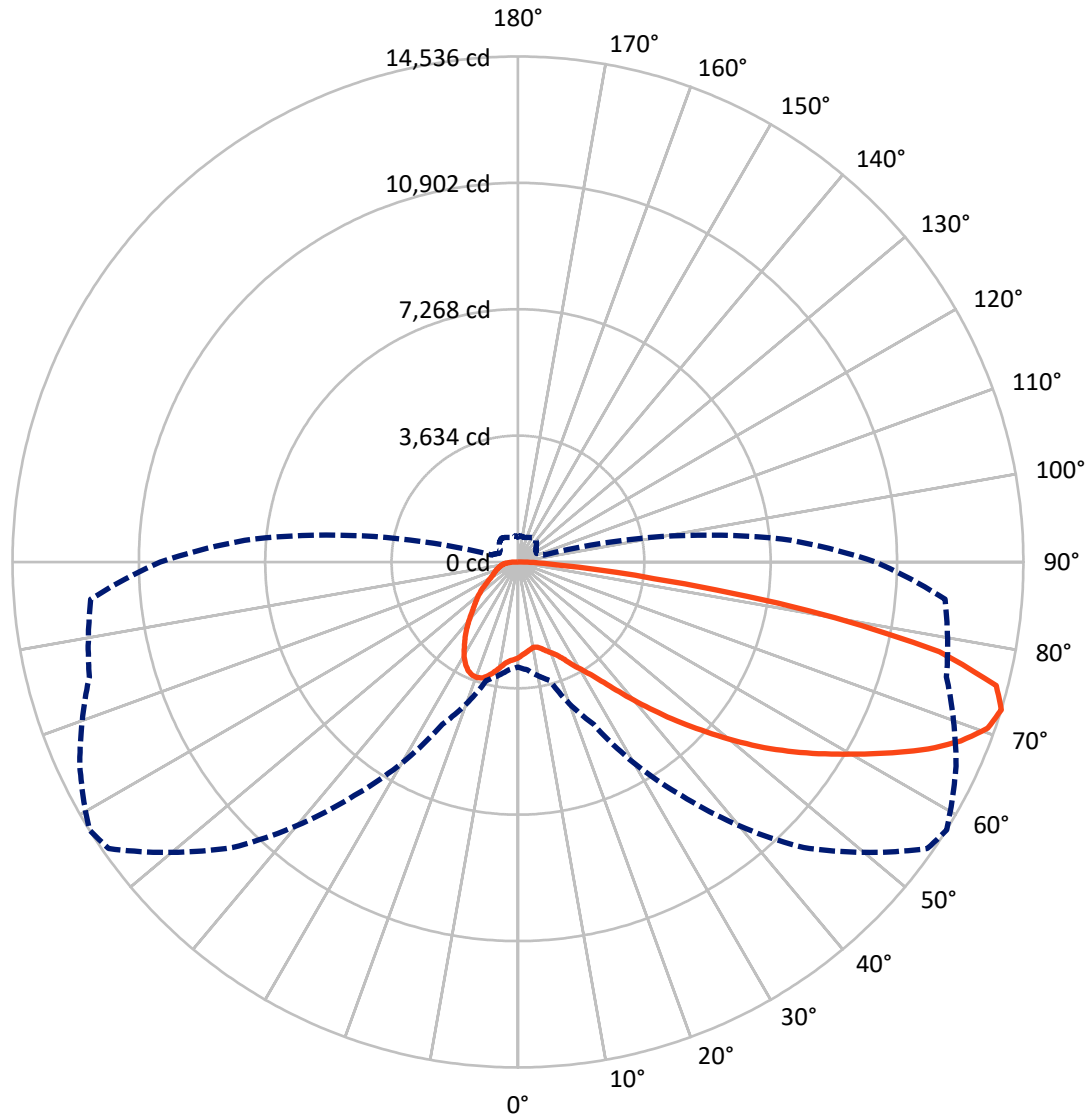
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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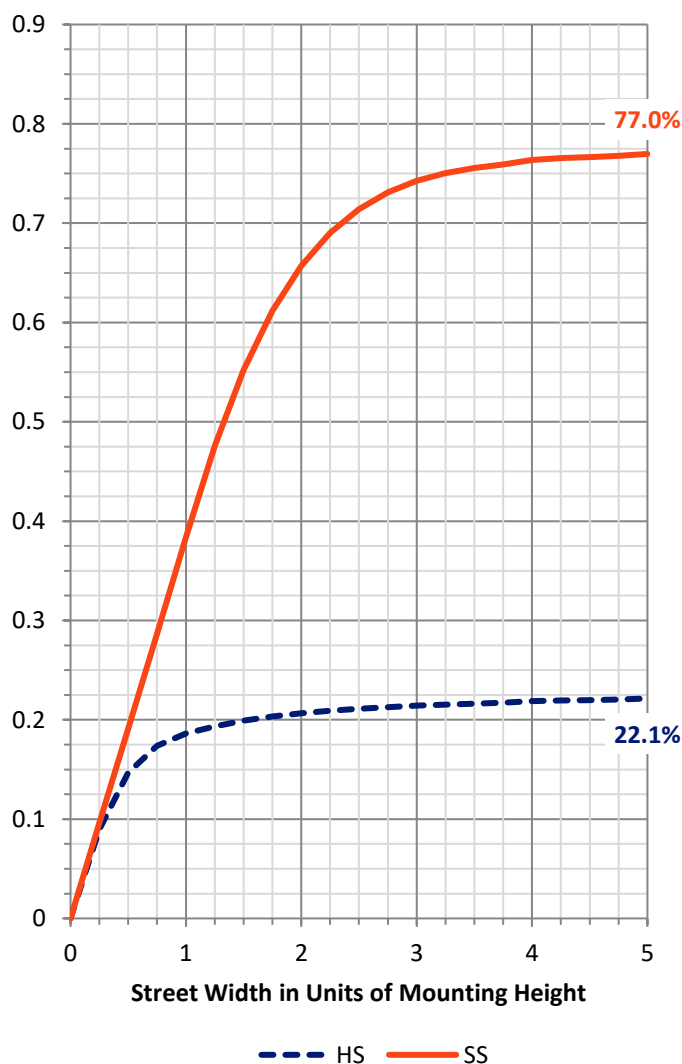
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5911.7	0.0	5911.7
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	20155.3	0.0	20155.3
	% Fixture	77.3	0.0	77.3
Total	Lumens	26067.0	0.0	26067.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.9	1.0
10°-20°	841.1	3.2
20°-30°	1506.8	5.8
30°-40°	2266.6	8.7
40°-50°	3670.4	14.1
50°-60°	5525.2	21.2
60°-70°	6502.5	24.9
70°-80°	4610.9	17.7
80°-90°	878.6	3.4
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°	26067.0	100.0
0°-180°	26067.0	100.0



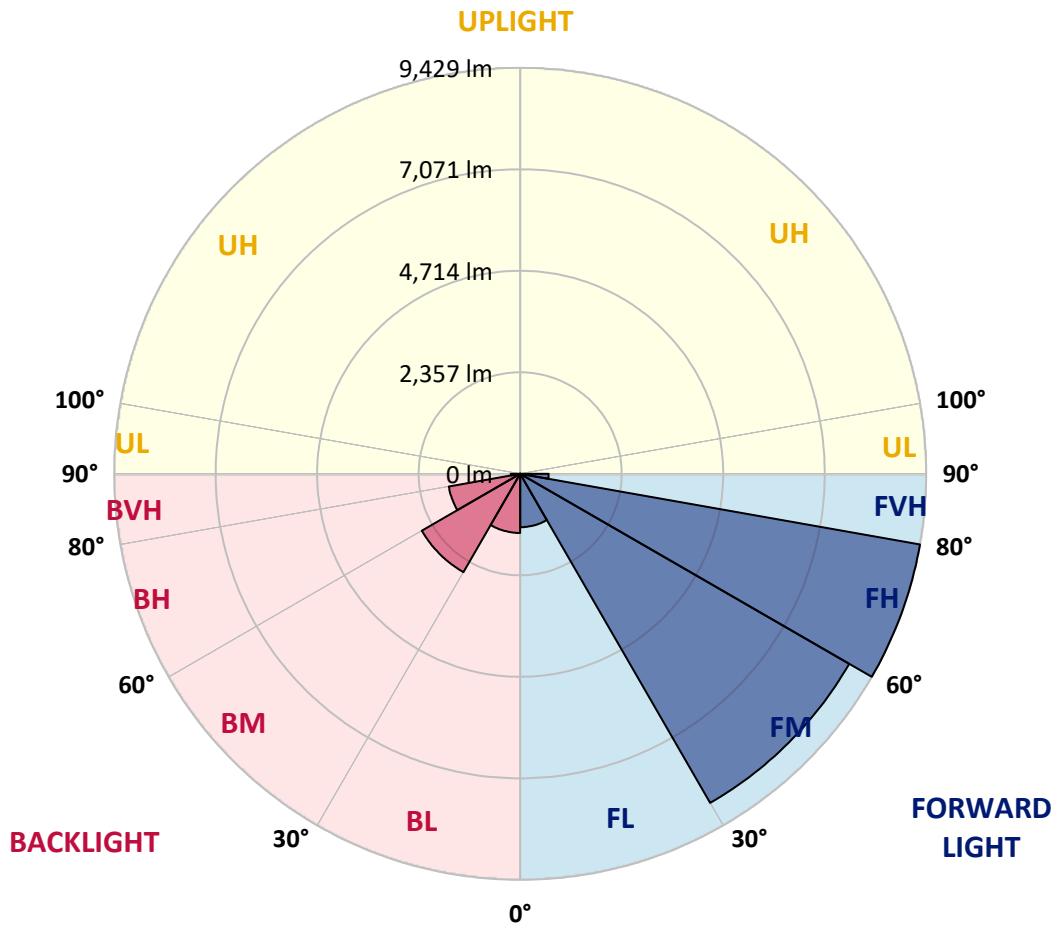
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.6	4.8			
FM (30°-60°)	8824.4	33.9			
FH (60°-80°)	9428.5	36.2			G4/12000
FVH (80°-90°)	662.7	2.5			G4/750
BL (0°-30°)	1373.2	5.3	B3/2500		
BM (30°-60°)	2637.8	10.1	B3/5000		
BH (60°-80°)	1684.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	215.9	0.8			G2/225
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°	55°	58°	65°	75°	85°
0°	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5
2.5°	2646.3	2632.5	2636.0	2636.0	2649.7	2656.6	2660.0	2670.4	2677.2	2694.5	2718.5
5°	2522.4	2512.1	2515.5	2519.0	2543.0	2567.1	2587.8	2601.5	2622.2	2649.7	2684.1
7.5°	2432.9	2426.0	2429.5	2436.4	2457.0	2484.5	2519.0	2539.6	2570.6	2622.2	2680.7
10°	2367.5	2367.5	2371.0	2384.7	2405.4	2439.8	2467.3	2491.4	2553.4	2646.3	2735.7
12.5°	2315.9	2315.9	2326.2	2353.8	2388.2	2422.6	2488.0	2515.5	2598.1	2725.4	2832.1
15°	2312.5	2315.9	2319.4	2343.5	2381.3	2457.0	2553.4	2594.7	2694.5	2845.9	2969.8
17.5°	2367.5	2371.0	2357.2	2364.1	2408.8	2515.5	2642.8	2691.0	2818.3	2983.5	3110.8
20°	2536.2	2536.2	2494.9	2457.0	2488.0	2605.0	2749.5	2797.7	2938.8	3121.2	3248.5
22.5°	2880.3	2897.5	2801.1	2718.5	2670.4	2735.7	2866.5	2918.1	3076.4	3272.6	3399.9
25°	3296.7	3313.9	3183.1	3066.1	2976.6	2966.3	3052.3	3107.4	3238.2	3441.2	3547.9
27.5°	3699.3	3668.3	3547.9	3437.8	3324.2	3231.3	3296.7	3344.8	3496.3	3651.1	3716.5
30°	4015.9	3991.8	3874.8	3795.6	3689.0	3568.5	3530.7	3582.3	3706.2	3850.7	3885.1
32.5°	4366.9	4349.7	4232.7	4129.4	4040.0	3926.4	3843.8	3867.9	3936.7	4040.0	4060.6
35°	4814.2	4852.1	4728.2	4518.3	4418.5	4308.4	4249.9	4256.8	4308.4	4373.8	4339.3
37.5°	5285.7	5330.4	5337.3	5006.9	4872.7	4772.9	4711.0	4735.1	4797.0	4841.8	4735.1
40°	6159.7	6115.0	5936.1	5691.7	5485.3	5388.9	5302.9	5299.4	5344.2	5423.3	5230.6
42.5°	7319.4	7278.1	6916.8	6600.2	6273.3	6163.2	5994.6	5922.3	5942.9	6042.7	5774.3
45°	8430.9	8413.7	8124.7	7756.5	7364.2	7150.8	6765.4	6589.9	6572.7	6651.8	6331.8
47.5°	9418.5	9342.8	9132.9	8847.3	8806.0	8248.5	7539.7	7302.2	7219.6	7264.4	6906.5
50°	10475.0	10216.9	9927.8	9752.3	10051.7	9532.1	8320.8	8073.0	7870.0	7901.0	7529.3
52.5°	11035.9	10602.3	10413.1	10464.7	10867.3	10667.7	9170.8	8868.0	8541.0	8585.8	8148.7
55°	10554.1	10550.7	10633.3	10953.3	11514.2	11283.7	9979.5	9638.8	9280.9	9291.2	8861.1
57.5°	9893.4	10027.6	10454.3	11159.8	12316.0	11930.6	10774.4	10413.1	10086.1	10034.5	9669.8
60°	9291.2	9439.2	10058.6	11125.4	12594.8	12522.5	11531.4	11214.9	10949.9	10798.5	10519.7
62.5°	8375.9	8486.0	9363.5	10905.1	12360.8	12949.2	12298.8	12082.0	11882.4	11569.3	11435.1
65°	7298.8	7336.6	8262.3	10179.1	12068.3	13114.4	13062.8	12966.4	12773.7	12312.6	12340.1
67.5°	6132.2	6207.9	7020.0	9019.4	11428.2	13038.7	13654.7	13733.8	13506.7	12815.0	12918.2
70°	4889.9	4982.8	5598.8	7415.8	10340.8	12711.8	14201.8	14329.1	13892.1	12980.2	13024.9
72.5°	3024.8	3114.3	3527.2	5151.5	8196.9	11614.0	14370.4	14535.6	13902.4	12759.9	12329.8
75°	1046.1	1056.4	1379.9	2470.8	4865.8	8768.2	13819.8	14208.7	13465.4	11958.2	10729.6
77.5°	478.3	495.5	612.5	1018.6	2157.6	4731.6	11411.0	12384.9	12137.1	10705.6	8258.9
80°	330.4	337.2	423.3	609.1	1245.7	1665.5	7202.4	8472.2	8905.8	8289.8	5292.6
82.5°	247.8	254.6	326.9	412.9	898.2	808.7	2742.6	3936.7	4893.4	4803.9	2212.7
85°	237.4	234.0	254.6	275.3	598.8	481.8	887.8	1218.2	1909.9	1634.6	557.5
87.5°	103.2	113.6	261.5	154.9	313.1	223.7	385.4	450.8	581.6	505.9	199.6
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°	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5	2749.5
2.5°	2728.9	2735.7	2756.4	2787.4	2804.6	2839.0	2863.1	2876.8	2887.2	2890.6	2890.6
5°	2704.8	2718.5	2763.3	2814.9	2863.1	2935.3	3000.7	3038.6	3066.1	3076.4	3079.9
7.5°	2711.7	2746.1	2811.5	2887.2	2949.1	3042.0	3121.2	3196.9	3258.8	3282.9	3282.9
10°	2777.0	2825.2	2914.7	3014.5	3093.6	3190.0	3272.6	3338.0	3410.2	3451.5	3458.4
12.5°	2876.8	2935.3	3052.3	3162.5	3251.9	3327.6	3403.3	3451.5	3485.9	3516.9	3523.8
15°	3017.9	3090.2	3207.2	3320.8	3399.9	3448.1	3468.7	3468.7	3465.3	3468.7	3475.6
17.5°	3159.0	3227.8	3344.8	3458.4	3496.3	3468.7	3444.6	3437.8	3434.3	3427.4	3430.9
20°	3296.7	3362.0	3461.8	3547.9	3516.9	3420.5	3389.6	3386.1	3375.8	3368.9	3362.0
22.5°	3434.3	3482.5	3565.1	3596.0	3472.2	3334.5	3296.7	3276.0	3262.3	3245.0	3227.8
25°	3592.6	3606.4	3668.3	3620.1	3362.0	3176.2	3121.2	3090.2	3076.4	3059.2	3045.5
27.5°	3740.6	3740.6	3750.9	3582.3	3200.3	2966.3	2883.7	2828.7	2825.2	2821.8	2818.3
30°	3874.8	3857.6	3823.2	3468.7	2990.4	2708.2	2584.3	2529.3	2549.9	2567.1	2570.6
32.5°	4033.1	3998.7	3902.3	3313.9	2739.2	2419.2	2267.7	2243.7	2267.7	2288.4	2274.6
35°	4280.8	4218.9	3984.9	3134.9	2498.3	2154.2	2009.7	1975.2	1968.4	1964.9	1937.4
37.5°	4635.3	4528.6	4050.3	2942.2	2260.9	1920.2	1813.5	1741.2	1675.9	1607.0	1596.7
40°	5068.9	4886.5	4095.0	2722.0	2009.7	1724.0	1610.5	1517.6	1407.4	1287.0	1273.2
42.5°	5543.8	5271.9	4115.7	2477.7	1789.4	1562.3	1421.2	1304.2	1180.3	1087.4	1070.2
45°	6056.5	5688.3	4098.5	2243.7	1610.5	1424.7	1266.4	1139.0	1039.2	973.9	960.1
47.5°	6555.5	6166.6	4050.3	2057.8	1472.8	1307.7	1145.9	1028.9	953.2	880.9	863.7
50°	7195.5	6624.3	3991.8	1913.3	1321.4	1190.7	1070.2	946.3	860.3	825.9	819.0
52.5°	7904.4	7082.0	3923.0	1730.9	1173.4	1097.7	1022.0	911.9	884.4	819.0	808.7
55°	8671.8	7625.7	3909.2	1500.4	1042.7	1032.4	973.9	942.9	949.8	819.0	801.8
57.5°	9480.5	8207.2	3940.2	1269.8	936.0	973.9	994.5	970.4	960.1	836.2	801.8
60°	10323.6	8768.2	3847.3	1056.4	853.4	925.7	1018.6	956.7	880.9	829.3	805.2
62.5°	11142.6	9239.6	3444.6	905.0	791.5	911.9	1004.8	905.0	819.0	819.0	808.7
65°	11737.9	9449.5	2694.5	794.9	750.2	894.7	980.7	870.6	801.8	825.9	812.1
67.5°	11806.7	9232.7	1810.1	708.9	715.8	863.7	925.7	839.7	784.6	846.5	825.9
70°	11383.5	8668.4	1108.1	643.5	671.0	808.7	877.5	808.7	760.5	829.3	798.4
72.5°	10285.7	7615.4	781.2	588.4	622.9	757.1	832.8	781.2	726.1	750.2	719.2
75°	8437.8	5901.6	619.4	536.8	574.7	708.9	794.9	739.9	684.8	674.5	653.8
77.5°	5977.4	3781.9	499.0	495.5	523.1	650.4	743.3	691.7	636.6	616.0	602.2
80°	3437.8	1854.8	430.1	447.4	474.9	591.9	681.4	636.6	585.0	554.0	533.4
82.5°	1314.5	646.9	378.5	388.9	419.8	529.9	619.4	581.6	529.9	557.5	468.0
85°	426.7	354.4	309.7	320.0	351.0	440.5	547.1	516.2	457.7	406.1	375.1
87.5°	189.3	192.7	165.2	182.4	220.2	292.5	399.2	378.5	333.8	278.7	268.4
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)