

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: P399568

Luminaire Tested: **ARCH-L-PA3-160-730-U-T4W**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399568
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-PA3-160-730-U-T4W
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 705mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22604 lumens
Efficiency: N/A
Efficacy: 139.5 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

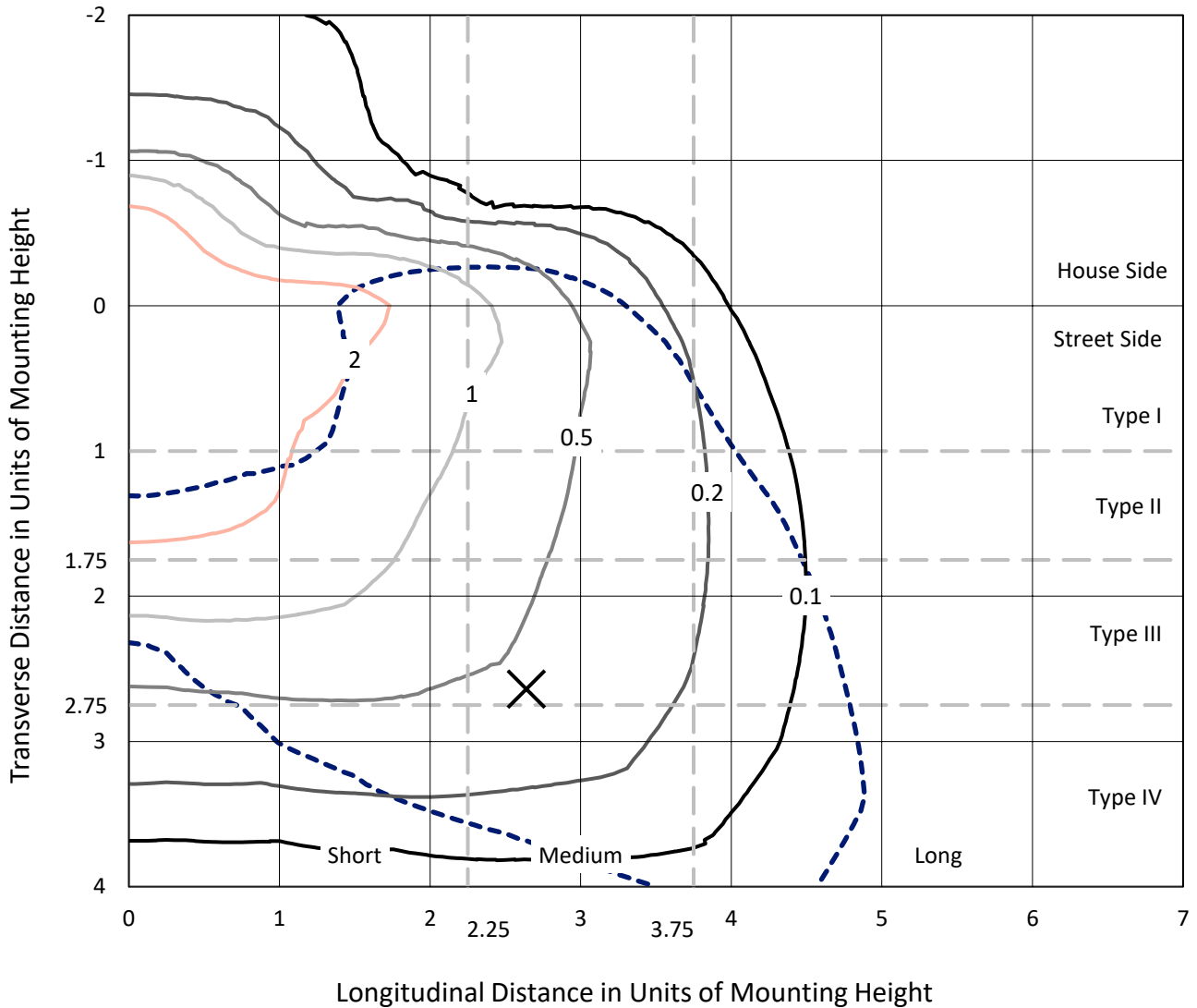
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

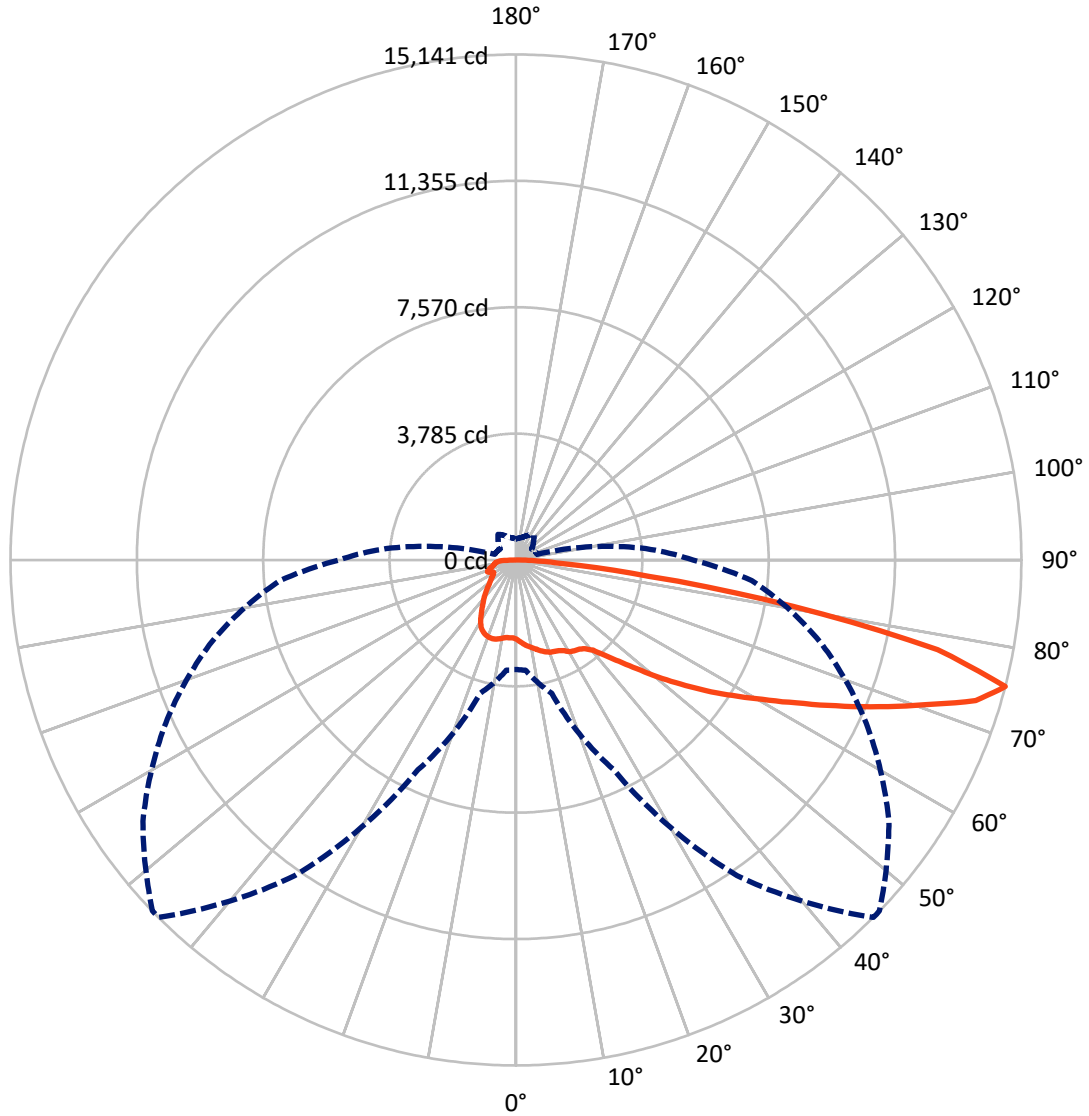
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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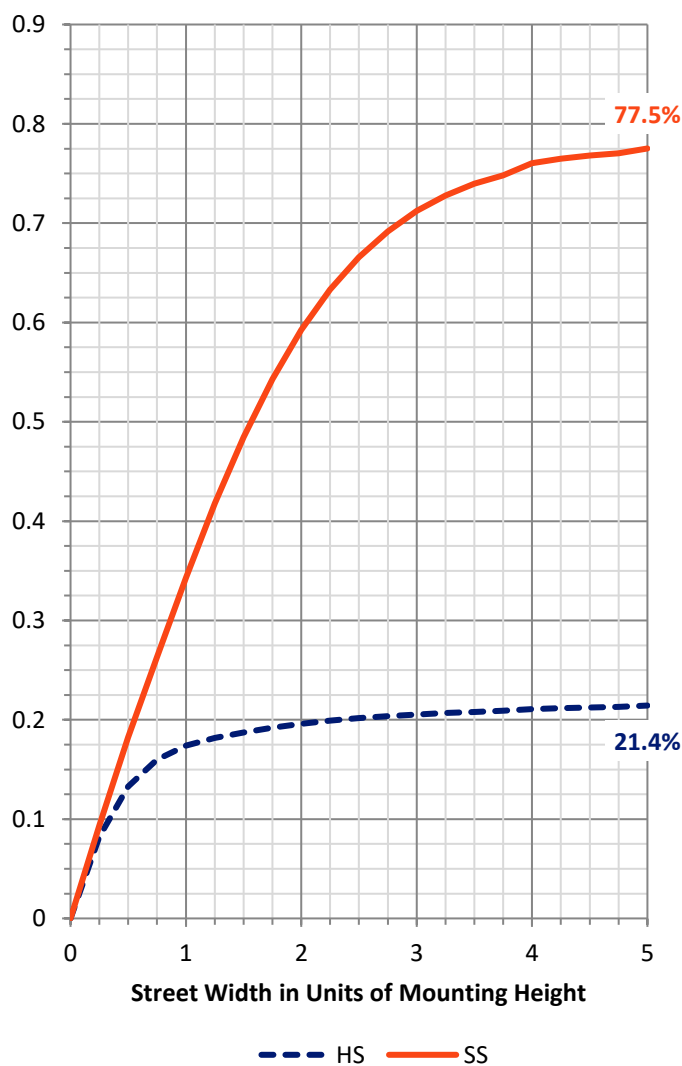
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4995.4	0.0	4995.4
	% Fixture	22.1	0.0	22.1
Street Side	Lumens	17608.6	0.0	17608.6
	% Fixture	77.9	0.0	77.9
Total	Lumens	22604.0	0.0	22604.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.8	1.0
10°-20°	747.1	3.3
20°-30°	1273.8	5.6
30°-40°	1784.7	7.9
40°-50°	2622.0	11.6
50°-60°	4172.9	18.5
60°-70°	5936.0	26.3
70°-80°	4970.2	22.0
80°-90°	862.6	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°	22604.0	100.0
0°-180°	22604.0	100.0

Coefficient of Utilization

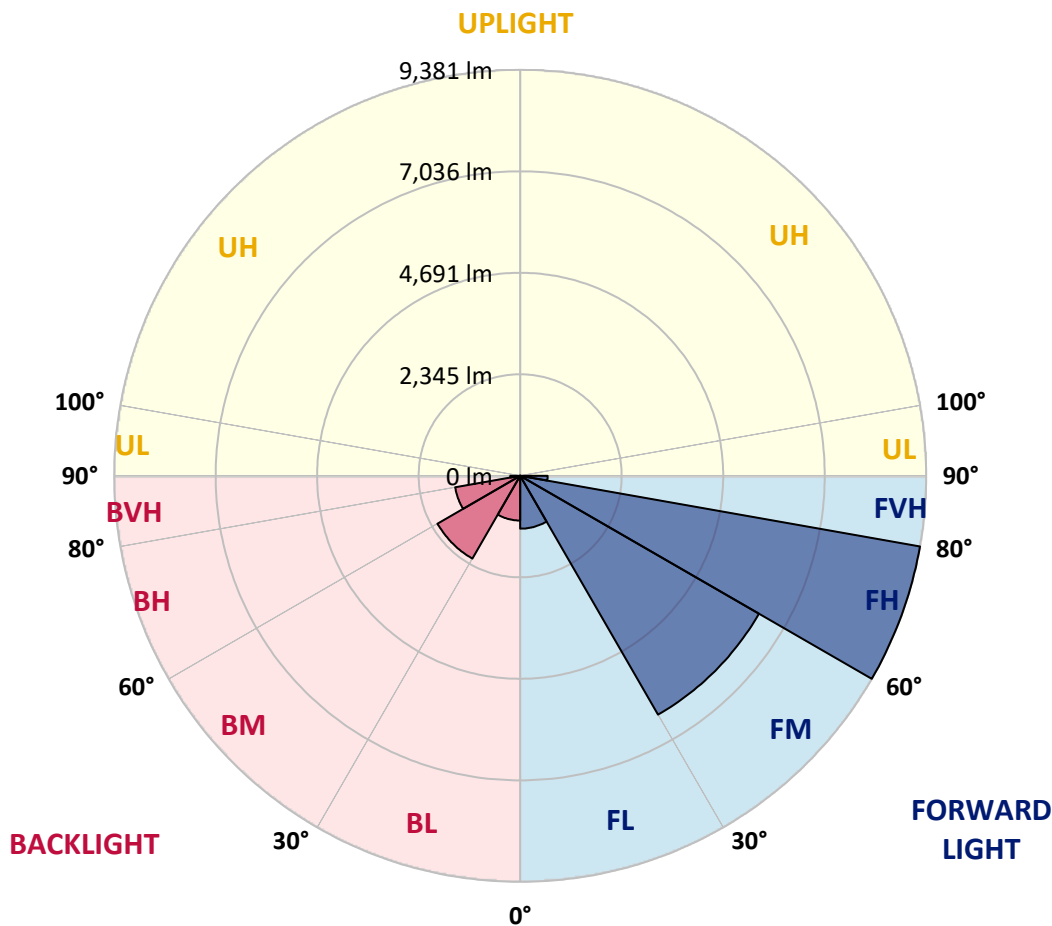


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.9	5.4			
FM (30°-60°)	6371.4	28.2			
FH (60°-80°)	9381.2	41.5			G4/12000
FVH (80°-90°)	634.1	2.8			G4/750
BL (0°-30°)	1033.9	4.6	B3/2500		
BM (30°-60°)	2208.2	9.8	B2/2500		
BH (60°-80°)	1524.9	6.7	B3/2500		G3/2500
BVH (80°-90°)	228.4	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°	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2509.8	2497.7	2491.7	2491.7	2467.5	2452.4	2449.4	2428.3	2410.2	2392.0	2376.9
5°	2654.8	2645.7	2627.6	2612.5	2579.3	2537.0	2531.0	2485.7	2440.4	2398.1	2361.8
7.5°	2787.7	2769.6	2748.4	2718.2	2663.9	2606.5	2597.4	2534.0	2470.6	2407.1	2358.8
10°	2899.4	2881.3	2851.1	2808.8	2739.4	2669.9	2660.8	2594.4	2527.9	2452.4	2383.0
12.5°	3005.1	2990.0	2944.7	2887.4	2805.8	2742.4	2733.3	2675.9	2606.5	2521.9	2431.3
15°	3095.8	3080.7	3032.3	2965.9	2872.3	2823.9	2811.9	2757.5	2688.0	2597.4	2503.8
17.5°	3141.1	3141.1	3089.7	3017.2	2929.6	2893.4	2884.3	2817.9	2754.5	2666.9	2573.3
20°	3156.2	3162.2	3126.0	3038.4	2962.9	2947.8	2938.7	2884.3	2811.9	2727.3	2639.7
22.5°	3165.2	3177.3	3147.1	3047.4	2984.0	2974.9	2968.9	2932.7	2875.3	2793.7	2706.1
25°	3195.4	3195.4	3174.3	3062.5	3011.2	3008.2	3008.2	2987.0	2947.8	2878.3	2790.7
27.5°	3240.7	3237.7	3210.5	3095.8	3071.6	3080.7	3077.6	3074.6	3047.4	2978.0	2884.3
30°	3316.2	3316.2	3286.0	3162.2	3147.1	3186.4	3189.4	3195.4	3153.1	3044.4	2968.9
32.5°	3431.0	3418.9	3388.7	3228.6	3204.5	3240.7	3246.8	3243.7	3207.5	3104.8	3068.6
35°	3784.4	3757.2	3648.5	3376.6	3255.8	3277.0	3280.0	3295.1	3301.1	3219.6	3201.5
37.5°	4403.5	4367.3	4201.2	3727.0	3418.9	3367.6	3364.6	3403.8	3437.0	3364.6	3364.6
40°	5077.0	5046.8	4950.2	4331.0	3720.9	3551.8	3539.7	3576.0	3618.3	3566.9	3582.0
42.5°	5656.9	5681.1	5690.1	4971.3	4174.0	3896.1	3862.9	3811.6	3878.0	3832.7	3893.1
45°	6091.8	6079.8	6245.9	5626.7	4759.9	4328.0	4282.7	4143.8	4228.3	4225.3	4358.2
47.5°	6553.9	6532.8	6602.3	6242.9	5427.4	4856.6	4787.1	4581.7	4708.6	4796.2	5016.6
50°	6991.9	6997.9	7022.1	6729.1	6152.2	5499.9	5412.3	5137.4	5318.7	5502.9	5814.0
52.5°	7562.7	7520.4	7490.2	7296.9	6964.7	6170.4	6113.0	5798.9	6052.6	6270.0	6683.8
55°	8061.0	8033.9	8015.7	8006.7	7644.2	6910.3	6849.9	6523.7	6889.2	7043.2	7653.3
57.5°	8592.6	8577.5	8674.2	8828.2	8683.2	7662.4	7598.9	7284.8	7692.6	7801.3	8704.4
60°	8982.2	8991.3	9257.1	9649.7	9550.0	8477.8	8402.3	8124.5	8474.8	8571.5	9755.4
62.5°	8985.2	9075.8	9692.0	10395.7	10510.5	9417.1	9329.5	9027.5	9278.2	9278.2	10697.7
65°	8127.5	8230.2	9613.4	10579.9	11483.0	10534.6	10450.1	9975.9	10069.5	9942.7	11582.6
67.5°	7272.8	7393.6	8695.3	10595.0	12165.6	11730.6	11631.0	10924.2	10764.2	10444.0	12201.8
70°	6704.9	6789.5	7876.8	10398.7	12576.3	12981.0	12905.5	11824.3	11310.8	10863.8	12071.9
72.5°	5644.8	5614.6	6653.6	9465.5	12805.8	14400.5	14337.1	12802.8	11785.0	10664.5	10296.0
75°	3277.0	3313.2	4128.7	6934.5	11543.4	15140.5	15134.5	13639.4	11576.6	9420.2	7094.6
77.5°	945.3	972.5	1356.1	3047.4	7299.9	12914.6	13328.4	12473.6	9785.6	6714.0	3678.7
80°	413.8	434.9	588.9	1014.8	3144.1	8435.6	8798.0	8435.6	5901.6	3080.7	1443.7
82.5°	244.6	259.7	383.6	628.2	1507.1	4013.9	4503.2	3932.4	2546.1	1307.8	598.0
85°	138.9	145.0	220.5	398.7	948.4	1404.4	1576.6	1476.9	1241.3	743.0	314.1
87.5°	63.4	66.4	108.7	187.3	531.6	474.2	492.3	652.4	718.8	453.0	157.1
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°	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9	2373.9
2.5°	2370.9	2361.8	2343.7	2337.7	2328.6	2331.6	2334.7	2334.7	2337.7	2328.6	2328.6
5°	2346.7	2331.6	2313.5	2313.5	2313.5	2337.7	2358.8	2370.9	2376.9	2376.9	2370.9
7.5°	2337.7	2319.6	2298.4	2304.4	2310.5	2340.7	2380.0	2419.2	2431.3	2431.3	2425.3
10°	2355.8	2337.7	2322.6	2331.6	2346.7	2370.9	2401.1	2437.3	2467.5	2470.6	2467.5
12.5°	2398.1	2376.9	2361.8	2380.0	2398.1	2413.2	2428.3	2443.4	2482.6	2488.7	2488.7
15°	2467.5	2446.4	2428.3	2443.4	2449.4	2449.4	2449.4	2449.4	2488.7	2494.7	2494.7
17.5°	2537.0	2518.9	2500.8	2503.8	2485.7	2461.5	2452.4	2449.4	2470.6	2488.7	2491.7
20°	2603.5	2588.4	2570.2	2540.0	2494.7	2449.4	2434.3	2434.3	2446.4	2473.6	2473.6
22.5°	2675.9	2657.8	2627.6	2558.1	2482.6	2419.2	2404.1	2413.2	2428.3	2464.5	2461.5
25°	2757.5	2733.3	2682.0	2552.1	2443.4	2367.9	2370.9	2398.1	2425.3	2464.5	2464.5
27.5°	2848.1	2814.9	2712.2	2503.8	2355.8	2283.3	2310.5	2373.9	2413.2	2455.5	2461.5
30°	2947.8	2917.6	2736.3	2419.2	2213.8	2147.4	2213.8	2316.5	2376.9	2416.2	2425.3
32.5°	3068.6	3044.4	2757.5	2310.5	2029.6	1972.2	2068.9	2195.7	2292.4	2337.7	2346.7
35°	3219.6	3195.4	2784.7	2186.7	1857.5	1797.0	1884.6	2014.5	2141.4	2198.7	2216.9
37.5°	3415.9	3379.7	2808.8	2053.8	1712.5	1643.0	1685.3	1803.1	1917.9	1996.4	2017.5
40°	3666.6	3609.2	2830.0	1902.8	1585.6	1507.1	1522.2	1579.6	1646.0	1715.5	1742.7
42.5°	4019.9	3905.2	2833.0	1742.7	1455.8	1383.3	1377.2	1395.4	1395.4	1395.4	1404.4
45°	4512.2	4294.8	2839.0	1591.7	1322.9	1247.4	1229.2	1223.2	1177.9	1090.3	1084.3
47.5°	5134.4	4805.2	2866.2	1464.8	1183.9	1117.5	1093.3	1069.2	984.6	894.0	875.9
50°	5931.8	5397.2	2920.6	1344.0	1066.1	1020.8	990.6	933.3	839.6	770.2	752.0
52.5°	6849.9	6100.9	2971.9	1217.2	978.6	948.4	912.1	842.6	743.0	700.7	694.7
55°	7904.0	6886.2	3074.6	1105.4	903.1	881.9	848.7	782.2	706.7	676.5	673.5
57.5°	8982.2	7765.1	3219.6	1005.7	830.6	818.5	818.5	761.1	712.8	700.7	700.7
60°	10021.2	8520.1	3107.8	912.1	764.1	770.2	827.5	812.4	776.2	791.3	800.4
62.5°	10827.6	8964.1	2521.9	836.6	715.8	770.2	918.2	918.2	875.9	869.8	869.8
65°	11171.9	8958.1	1772.9	779.2	697.7	845.7	1023.9	975.5	863.8	821.5	812.4
67.5°	11084.3	8565.4	1223.2	740.0	691.6	924.2	1072.2	936.3	809.4	773.2	746.0
70°	10314.1	7734.9	942.3	703.7	682.6	891.0	1057.1	891.0	767.1	733.9	709.8
72.5°	8320.8	6203.6	782.2	667.5	646.3	824.5	1005.7	848.7	733.9	697.7	673.5
75°	5306.6	3902.2	661.4	619.2	576.9	740.0	936.3	806.4	697.7	649.4	631.2
77.5°	2552.1	1682.3	576.9	561.8	519.5	685.6	866.8	752.0	649.4	610.1	598.0
80°	1032.9	770.2	501.4	504.4	477.2	652.4	818.5	700.7	601.0	558.7	537.6
82.5°	537.6	447.0	422.8	434.9	434.9	622.2	782.2	658.4	558.7	540.6	471.2
85°	289.9	277.9	326.2	350.3	377.5	561.8	727.9	613.1	510.4	437.9	422.8
87.5°	142.0	181.2	184.2	211.4	262.8	450.0	613.1	513.4	425.9	353.4	347.3
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)