

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: P399503

Luminaire Tested: **ARCH-L-PA3-150-740-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399503  
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-PA3-150-740-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 4000K, 665mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23812 lumens  
Efficiency: N/A  
Efficacy: 155.6 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

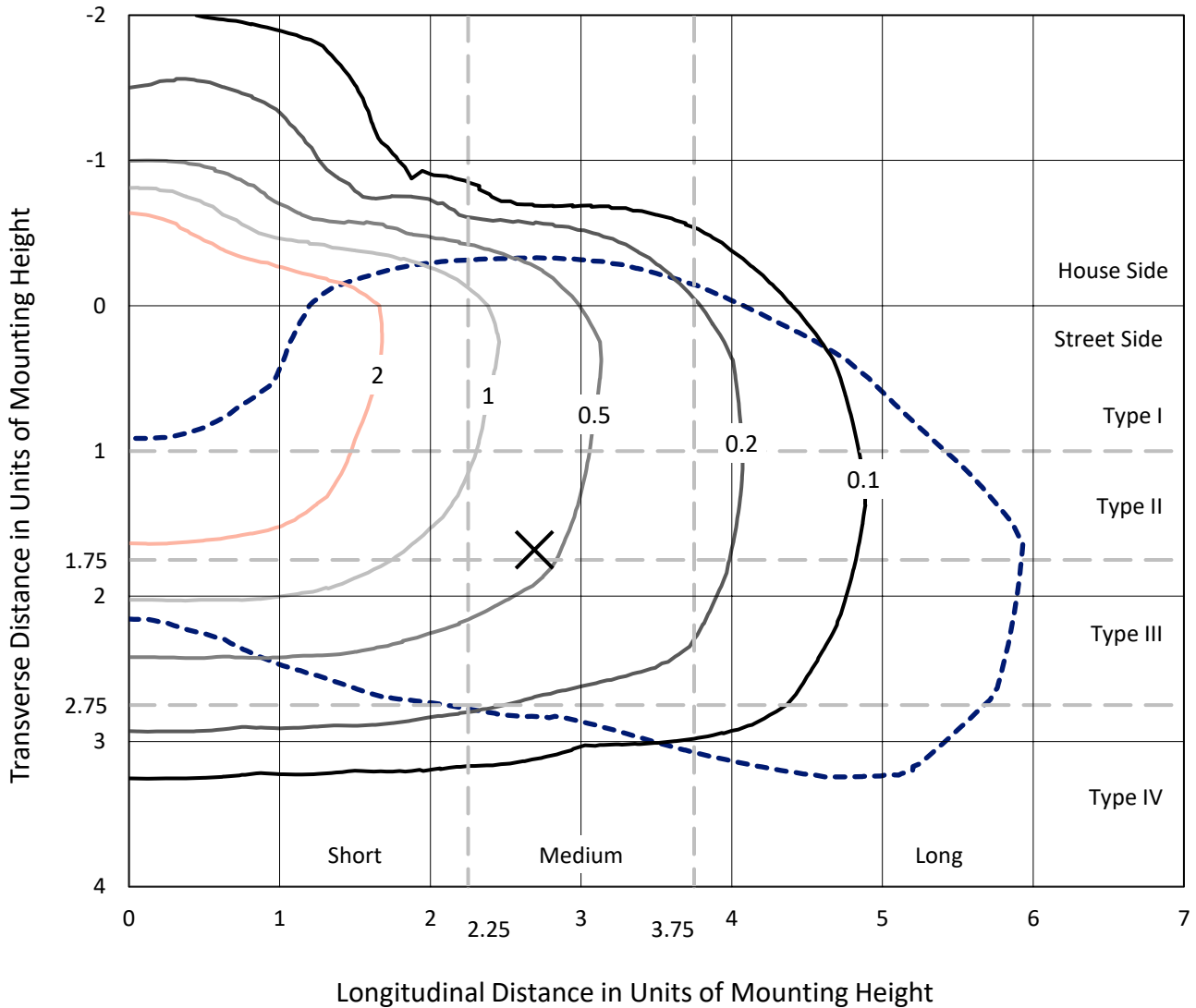
Input Watts (W): 153  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

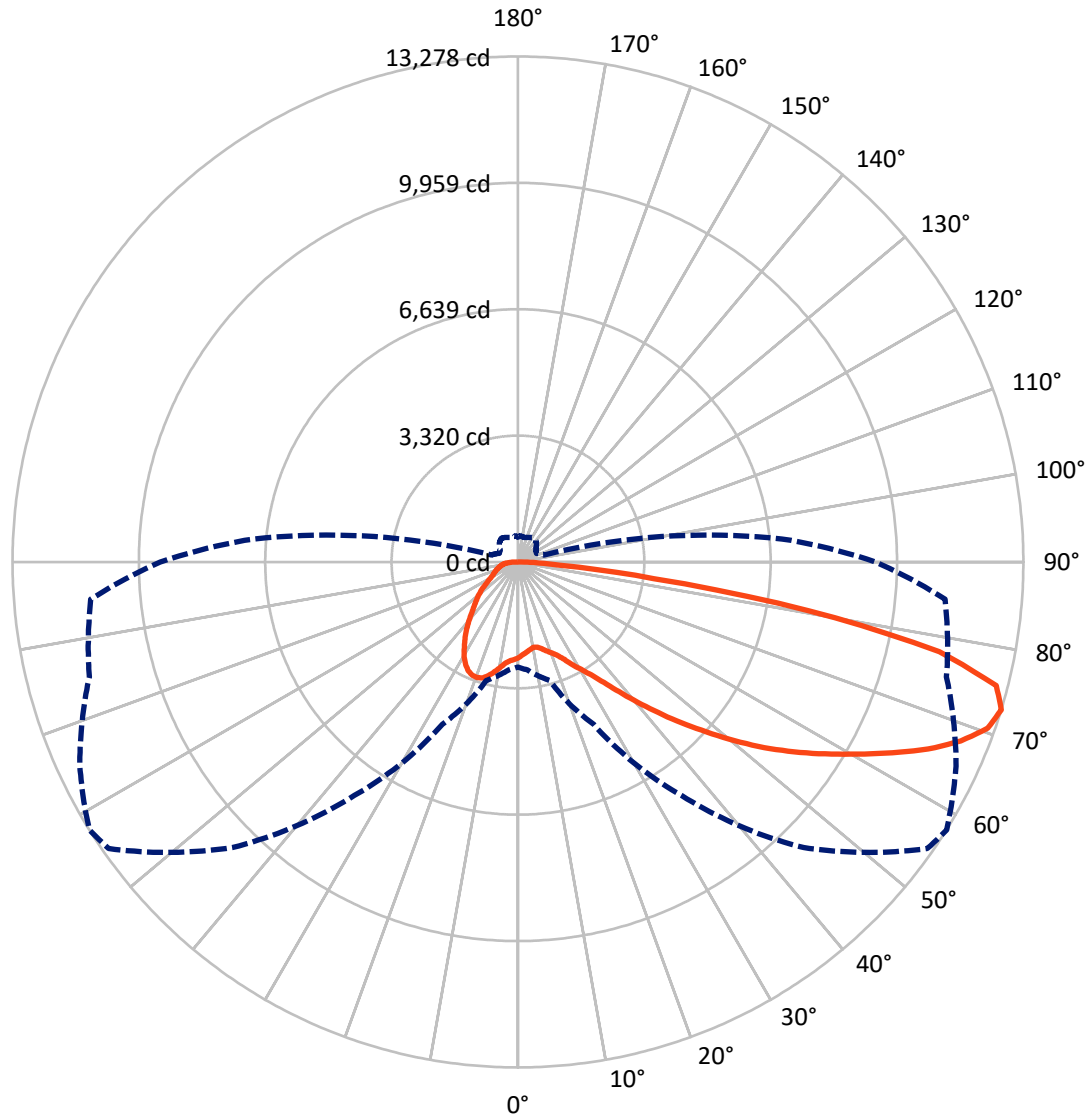
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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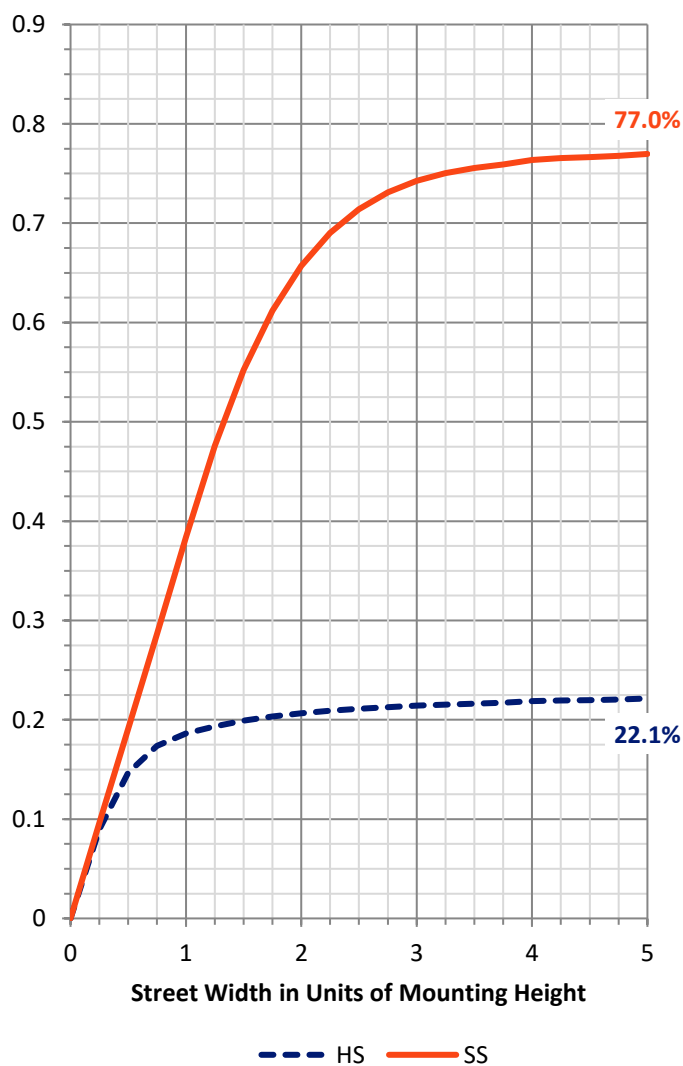
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5400.3	0.0	5400.3
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	18411.7	0.0	18411.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	23812.0	0.0	23812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	242.0	1.0
10°-20°	768.4	3.2
20°-30°	1376.4	5.8
30°-40°	2070.5	8.7
40°-50°	3352.9	14.1
50°-60°	5047.2	21.2
60°-70°	5940.0	24.9
70°-80°	4212.0	17.7
80°-90°	802.6	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°	23812.0	100.0
0°-180°	23812.0	100.0

**Coefficient of Utilization**

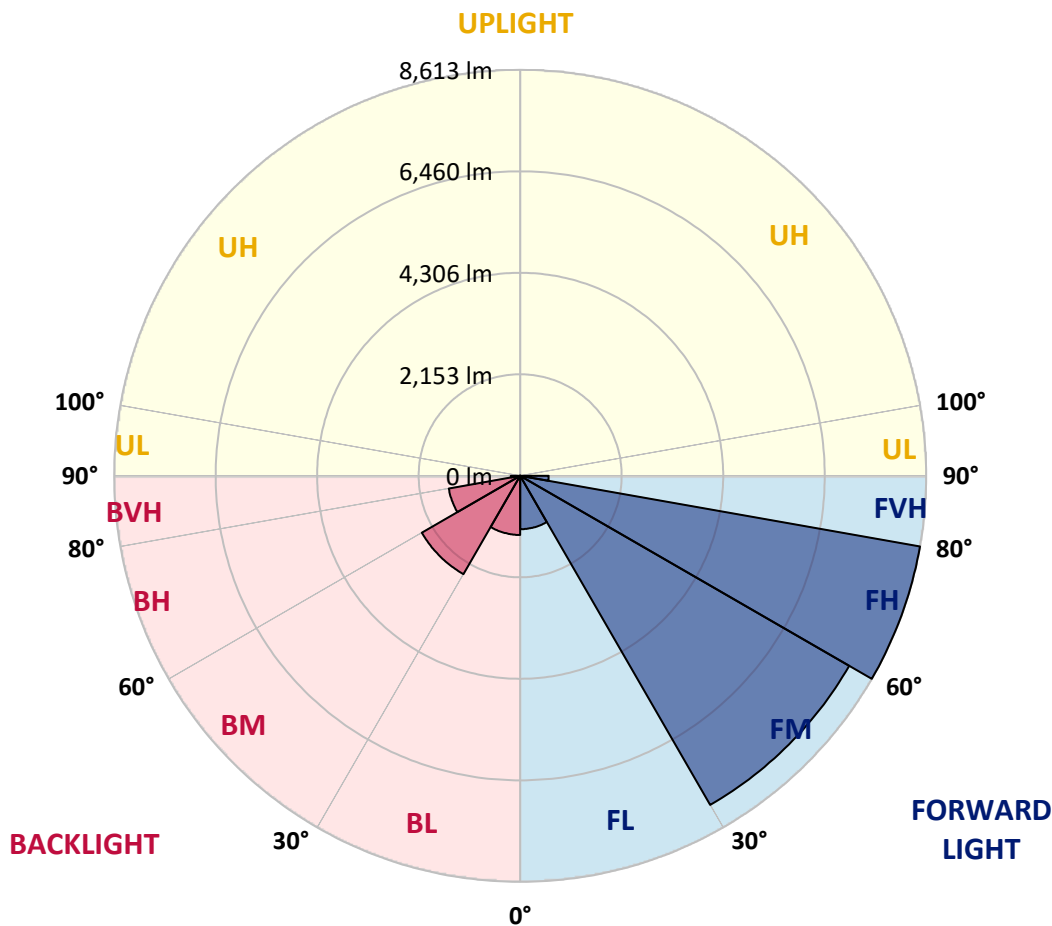


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1132.4	4.8			
FM (30°-60°)	8061.0	33.9			
FH (60°-80°)	8612.9	36.2			G4/12000
FVH (80°-90°)	605.4	2.5			G4/750
BL (0°-30°)	1254.4	5.3	B3/2500		
BM (30°-60°)	2409.6	10.1	B2/2500		
BH (60°-80°)	1539.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	197.2	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°	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7
2.5°	2417.4	2404.8	2407.9	2407.9	2420.5	2426.8	2429.9	2439.4	2445.6	2461.4	2483.4
5°	2304.2	2294.8	2297.9	2301.0	2323.0	2345.1	2363.9	2376.5	2395.4	2420.5	2451.9
7.5°	2222.5	2216.2	2219.3	2225.6	2244.5	2269.6	2301.0	2319.9	2348.2	2395.4	2448.8
10°	2162.7	2162.7	2165.9	2178.4	2197.3	2228.7	2253.9	2275.9	2332.5	2417.4	2499.1
12.5°	2115.6	2115.6	2125.0	2150.2	2181.6	2213.0	2272.8	2297.9	2373.3	2489.7	2587.1
15°	2112.4	2115.6	2118.7	2140.7	2175.3	2244.5	2332.5	2370.2	2461.4	2599.7	2712.8
17.5°	2162.7	2165.9	2153.3	2159.6	2200.5	2297.9	2414.2	2458.2	2574.5	2725.4	2841.7
20°	2316.8	2316.8	2279.0	2244.5	2272.8	2379.6	2511.7	2555.7	2684.6	2851.2	2967.5
22.5°	2631.1	2646.8	2558.8	2483.4	2439.4	2499.1	2618.5	2665.7	2810.3	2989.5	3105.8
25°	3011.5	3027.2	2907.7	2800.9	2719.1	2709.7	2788.3	2838.6	2958.0	3143.5	3241.0
27.5°	3379.3	3351.0	3241.0	3140.4	3036.6	2951.8	3011.5	3055.5	3193.8	3335.3	3395.0
30°	3668.5	3646.5	3539.6	3467.3	3369.8	3259.8	3225.2	3272.4	3385.6	3517.6	3549.0
32.5°	3989.1	3973.4	3866.5	3772.2	3690.5	3586.7	3511.3	3533.3	3596.2	3690.5	3709.3
35°	4397.8	4432.3	4319.2	4127.4	4036.3	3935.7	3882.2	3888.5	3935.7	3995.4	3964.0
37.5°	4828.4	4869.3	4875.6	4573.8	4451.2	4360.0	4303.5	4325.5	4382.0	4422.9	4325.5
40°	5626.9	5586.0	5422.5	5199.4	5010.7	4922.7	4844.1	4841.0	4881.9	4954.2	4778.1
42.5°	6686.2	6648.5	6318.4	6029.2	5730.6	5630.0	5476.0	5410.0	5428.8	5520.0	5274.8
45°	7701.6	7685.9	7421.8	7085.5	6727.1	6532.2	6180.1	6019.8	6004.1	6076.4	5784.0
47.5°	8603.8	8534.6	8342.9	8081.9	8044.2	7535.0	6887.4	6670.5	6595.1	6635.9	6309.0
50°	9568.8	9333.1	9069.0	8908.7	9182.2	8707.5	7601.0	7374.7	7189.2	7217.5	6878.0
52.5°	10081.2	9685.1	9512.2	9559.4	9927.2	9744.9	8377.4	8100.8	7802.2	7843.0	7443.8
55°	9641.1	9638.0	9713.4	10005.8	10518.2	10307.5	9116.2	8805.0	8478.0	8487.5	8094.5
57.5°	9037.6	9160.2	9550.0	10194.4	11250.6	10898.5	9842.3	9512.2	9213.6	9166.5	8833.2
60°	8487.5	8622.6	9188.5	10162.9	11505.2	11439.2	10533.9	10244.7	10002.6	9864.3	9609.7
62.5°	7651.3	7751.9	8553.5	9961.8	11291.5	11829.0	11234.9	11036.8	10854.5	10568.5	10445.9
65°	6667.4	6702.0	7547.6	9298.5	11024.3	11979.9	11932.7	11844.7	11668.7	11247.5	11272.6
67.5°	5601.7	5670.9	6412.7	8239.1	10439.6	11910.7	12473.4	12545.7	12338.3	11706.4	11800.7
70°	4466.9	4551.8	5114.5	6774.3	9446.2	11612.1	12973.2	13089.6	12690.3	11857.3	11898.2
72.5°	2763.1	2844.9	3222.1	4705.8	7487.8	10609.3	13127.3	13278.2	12699.8	11656.1	11263.2
75°	955.6	965.1	1260.5	2257.0	4444.9	8009.6	12624.3	12979.5	12300.5	10923.7	9801.4
77.5°	436.9	452.7	559.5	930.5	1971.0	4322.3	10423.9	11313.5	11087.1	9779.4	7544.4
80°	301.8	308.1	386.7	556.4	1137.9	1521.5	6579.4	7739.3	8135.4	7572.7	4834.7
82.5°	226.3	232.6	298.6	377.2	820.5	738.7	2505.4	3596.2	4470.1	4388.3	2021.3
85°	216.9	213.8	232.6	251.5	547.0	440.1	811.0	1112.8	1744.6	1493.2	509.2
87.5°	94.3	103.7	238.9	141.5	286.1	204.3	352.1	411.8	531.3	462.1	182.3
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°	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7	2511.7
2.5°	2492.8	2499.1	2517.9	2546.2	2562.0	2593.4	2615.4	2628.0	2637.4	2640.5	2640.5
5°	2470.8	2483.4	2524.2	2571.4	2615.4	2681.4	2741.1	2775.7	2800.9	2810.3	2813.4
7.5°	2477.1	2508.5	2568.2	2637.4	2694.0	2778.9	2851.2	2920.3	2976.9	2998.9	2998.9
10°	2536.8	2580.8	2662.5	2753.7	2826.0	2914.0	2989.5	3049.2	3115.2	3152.9	3159.2
12.5°	2628.0	2681.4	2788.3	2888.9	2970.6	3039.8	3108.9	3152.9	3184.4	3212.7	3218.9
15°	2756.9	2822.9	2929.7	3033.5	3105.8	3149.8	3168.7	3168.7	3165.5	3168.7	3174.9
17.5°	2885.7	2948.6	3055.5	3159.2	3193.8	3168.7	3146.6	3140.4	3137.2	3130.9	3134.1
20°	3011.5	3071.2	3162.4	3241.0	3212.7	3124.6	3096.4	3093.2	3083.8	3077.5	3071.2
22.5°	3137.2	3181.2	3256.7	3285.0	3171.8	3046.1	3011.5	2992.6	2980.0	2964.3	2948.6
25°	3281.8	3294.4	3351.0	3307.0	3071.2	2901.5	2851.2	2822.9	2810.3	2794.6	2782.0
27.5°	3417.0	3417.0	3426.4	3272.4	2923.5	2709.7	2634.3	2584.0	2580.8	2577.7	2574.5
30°	3539.6	3523.9	3492.4	3168.7	2731.7	2473.9	2360.8	2310.5	2329.3	2345.1	2348.2
32.5°	3684.2	3652.8	3564.7	3027.2	2502.2	2209.9	2071.6	2049.6	2071.6	2090.4	2077.9
35°	3910.5	3853.9	3640.2	2863.7	2282.2	1967.8	1835.8	1804.4	1798.1	1794.9	1769.8
37.5°	4234.3	4136.9	3699.9	2687.7	2065.3	1754.1	1656.6	1590.6	1530.9	1468.0	1458.6
40°	4630.4	4463.8	3740.8	2486.5	1835.8	1574.9	1471.2	1386.3	1285.7	1175.7	1163.1
42.5°	5064.2	4815.8	3759.6	2263.3	1634.6	1427.2	1298.3	1191.4	1078.2	993.3	977.6
45°	5532.6	5196.2	3743.9	2049.6	1471.2	1301.4	1156.8	1040.5	949.3	889.6	877.0
47.5°	5988.4	5633.2	3699.9	1879.8	1345.4	1194.5	1046.8	939.9	870.8	804.7	789.0
50°	6573.1	6051.2	3646.5	1747.8	1207.1	1087.7	977.6	864.5	785.9	754.4	748.2
52.5°	7220.6	6469.3	3583.6	1581.2	1071.9	1002.8	933.6	833.0	807.9	748.2	738.7
55°	7921.6	6966.0	3571.0	1370.6	952.5	943.1	889.6	861.3	867.6	748.2	732.4
57.5°	8660.4	7497.3	3599.3	1160.0	855.0	889.6	908.5	886.5	877.0	763.9	732.4
60°	9430.5	8009.6	3514.4	965.1	779.6	845.6	930.5	873.9	804.7	757.6	735.6
62.5°	10178.7	8440.3	3146.6	826.7	723.0	833.0	917.9	826.7	748.2	748.2	738.7
65°	10722.5	8632.1	2461.4	726.1	685.3	817.3	895.9	795.3	732.4	754.4	741.9
67.5°	10785.4	8434.0	1653.5	647.6	653.8	789.0	845.6	767.0	716.7	773.3	754.4
70°	10398.7	7918.5	1012.2	587.8	613.0	738.7	801.6	738.7	694.7	757.6	729.3
72.5°	9395.9	6956.6	713.6	537.5	569.0	691.6	760.7	713.6	663.3	685.3	657.0
75°	7707.9	5391.1	565.8	490.4	525.0	647.6	726.1	675.9	625.6	616.1	597.3
77.5°	5460.3	3454.7	455.8	452.7	477.8	594.1	679.0	631.8	581.5	562.7	550.1
80°	3140.4	1694.3	392.9	408.7	433.8	540.7	622.4	581.5	534.4	506.1	487.2
82.5°	1200.8	591.0	345.8	355.2	383.5	484.1	565.8	531.3	484.1	509.2	427.5
85°	389.8	323.8	282.9	292.3	320.6	402.4	499.8	471.5	418.1	370.9	342.6
87.5°	172.9	176.0	150.9	166.6	201.2	267.2	364.6	345.8	304.9	254.6	245.2
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)