

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: P399701

Luminaire Tested: **ARCH-L-PA3-180-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399701  
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-PA3-180-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22366 lumens  
Efficiency: N/A  
Efficacy: 123.6 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

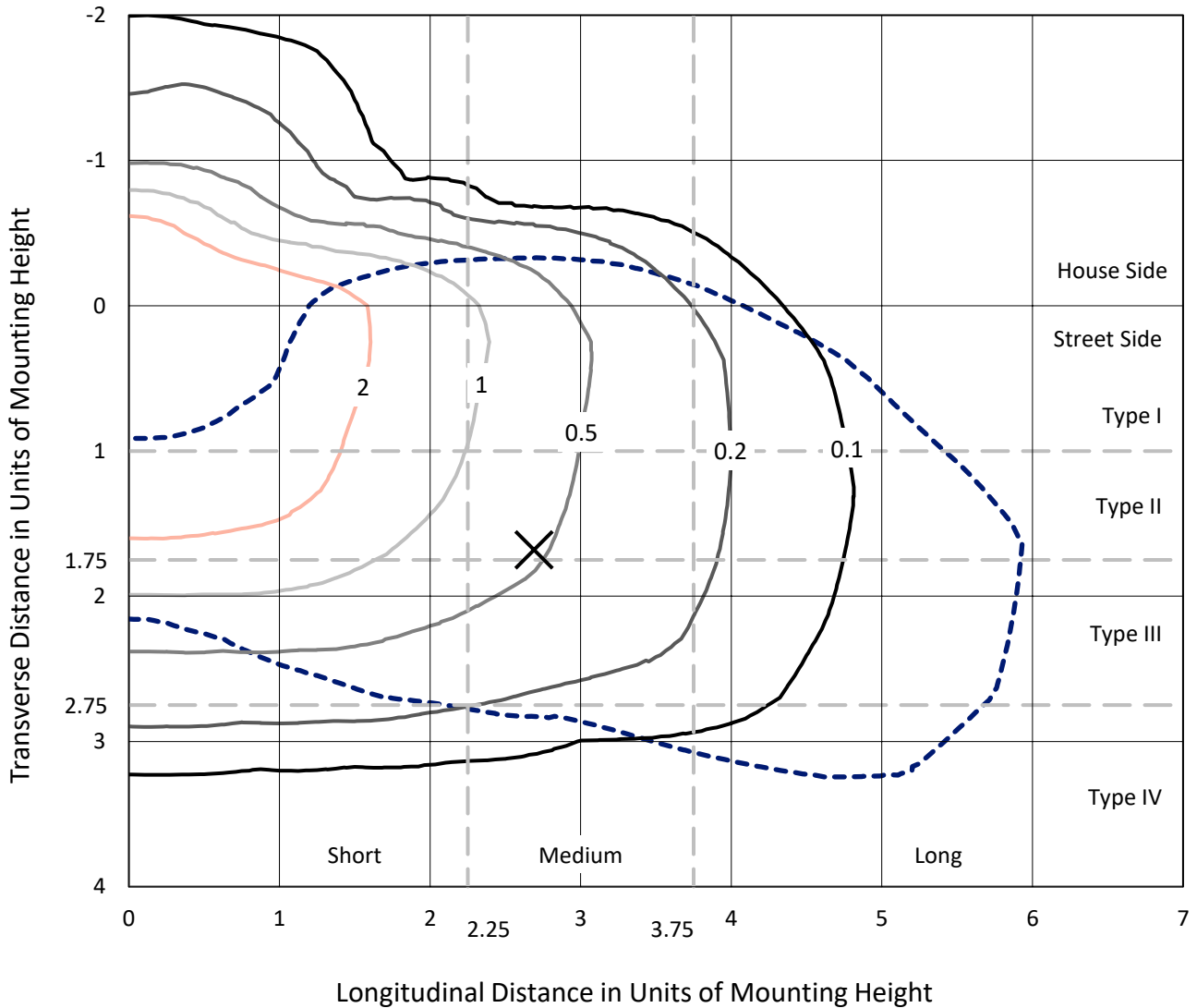
Input Watts (W): 181  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

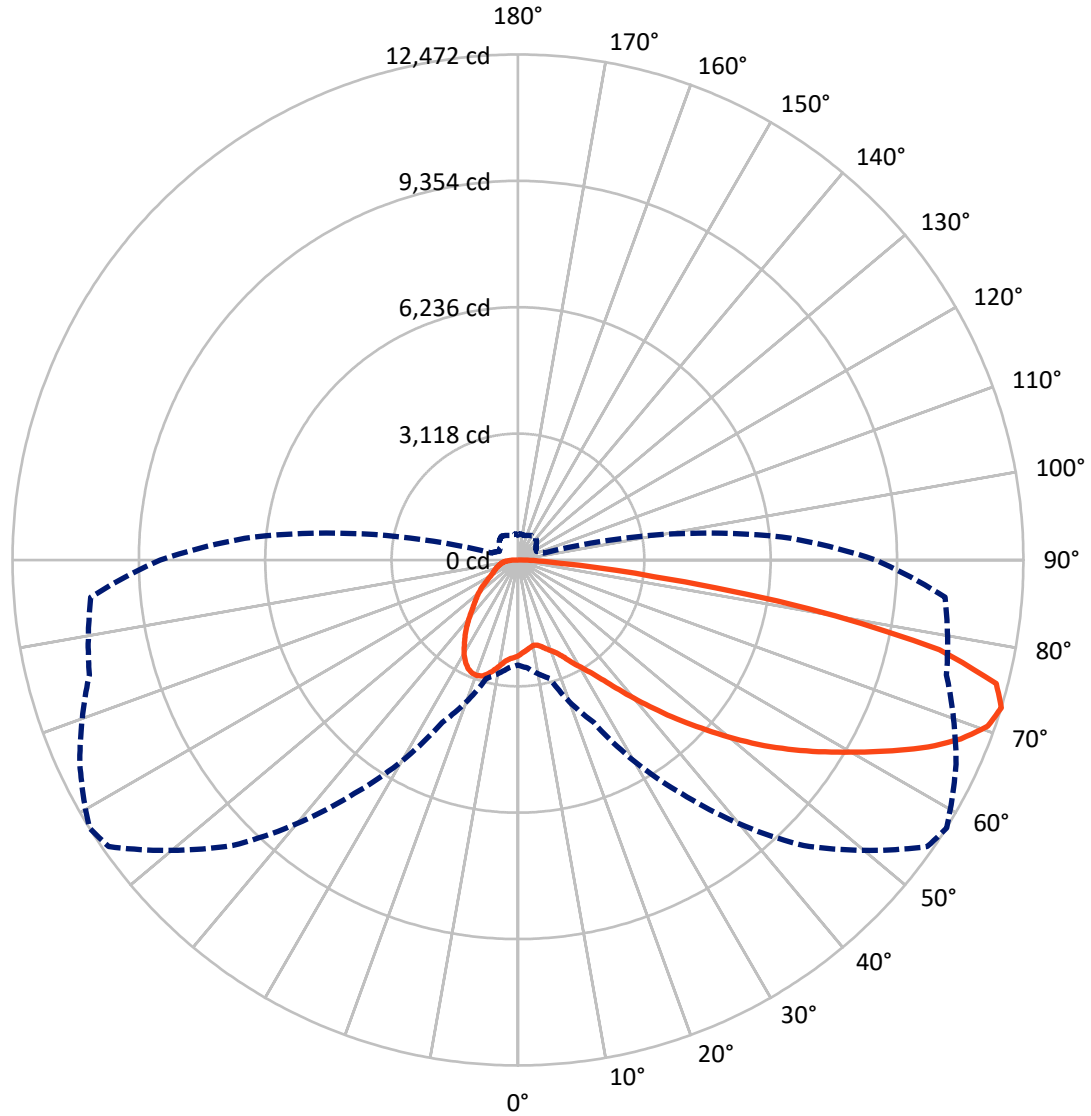
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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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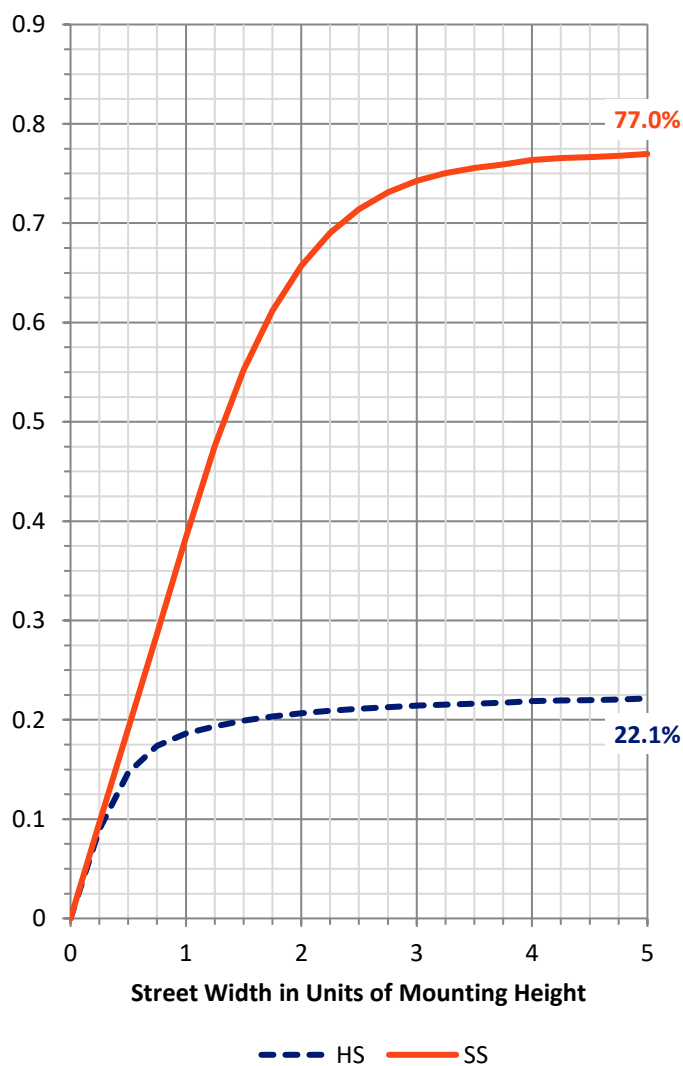
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5072.4	0.0	5072.4
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17293.7	0.0	17293.7
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	22366.0	0.0	22366.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.3	1.0
10°-20°	721.7	3.2
20°-30°	1292.8	5.8
30°-40°	1944.8	8.7
40°-50°	3149.3	14.1
50°-60°	4740.7	21.2
60°-70°	5579.3	24.9
70°-80°	3956.2	17.7
80°-90°	753.9	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°	22366.0	100.0
0°-180°	22366.0	100.0

**Coefficient of Utilization**

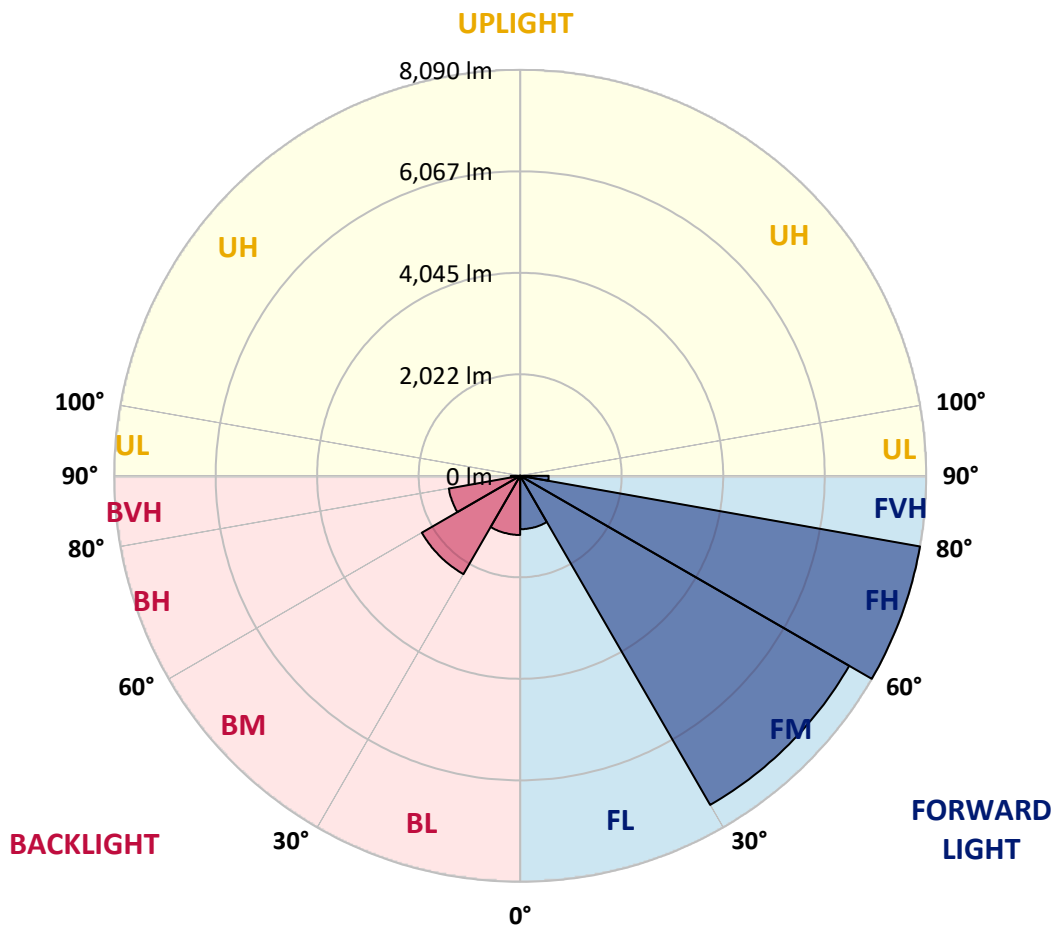


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1063.6	4.8			
FM (30°-60°)	7571.5	33.9			
FH (60°-80°)	8089.9	36.2			G4/12000
FVH (80°-90°)	568.6	2.5			G4/750
BL (0°-30°)	1178.2	5.3	B3/2500		
BM (30°-60°)	2263.2	10.1	B2/2500		
BH (60°-80°)	1445.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	185.2	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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2270.6	2258.7	2261.7	2261.7	2273.5	2279.4	2282.4	2291.2	2297.1	2311.9	2332.6
5°	2164.3	2155.4	2158.4	2161.3	2182.0	2202.6	2220.4	2232.2	2249.9	2273.5	2303.0
7.5°	2087.5	2081.6	2084.5	2090.4	2108.2	2131.8	2161.3	2179.0	2205.6	2249.9	2300.1
10°	2031.4	2031.4	2034.4	2046.2	2063.9	2093.4	2117.0	2137.7	2190.8	2270.6	2347.3
12.5°	1987.1	1987.1	1996.0	2019.6	2049.1	2078.6	2134.7	2158.4	2229.2	2338.5	2430.0
15°	1984.2	1987.1	1990.1	2010.7	2043.2	2108.2	2190.8	2226.3	2311.9	2441.8	2548.1
17.5°	2031.4	2034.4	2022.5	2028.4	2066.8	2158.4	2267.6	2308.9	2418.2	2559.9	2669.2
20°	2176.1	2176.1	2140.6	2108.2	2134.7	2235.1	2359.1	2400.5	2521.5	2678.0	2787.3
22.5°	2471.3	2486.1	2403.4	2332.6	2291.2	2347.3	2459.5	2503.8	2639.6	2807.9	2917.2
25°	2828.6	2843.4	2731.2	2630.8	2554.0	2545.2	2619.0	2666.2	2778.4	2952.6	3044.1
27.5°	3174.1	3147.5	3044.1	2949.7	2852.2	2772.5	2828.6	2869.9	2999.9	3132.7	3188.8
30°	3445.7	3425.0	3324.6	3256.7	3165.2	3061.9	3029.4	3073.7	3180.0	3304.0	3333.5
32.5°	3746.9	3732.1	3631.7	3543.1	3466.4	3368.9	3298.1	3318.7	3377.8	3466.4	3484.1
35°	4130.7	4163.2	4056.9	3876.8	3791.2	3696.7	3646.5	3652.4	3696.7	3752.8	3723.2
37.5°	4535.2	4573.6	4579.5	4296.1	4180.9	4095.3	4042.1	4062.8	4115.9	4154.3	4062.8
40°	5285.2	5246.8	5093.3	4883.6	4706.5	4623.8	4550.0	4547.0	4585.4	4653.3	4488.0
42.5°	6280.2	6244.8	5934.8	5663.1	5382.6	5288.1	5143.5	5081.4	5099.2	5184.8	4954.5
45°	7233.9	7219.1	6971.1	6655.2	6318.6	6135.5	5804.8	5654.3	5639.5	5707.4	5432.8
47.5°	8081.3	8016.3	7836.2	7591.2	7555.7	7077.4	6469.2	6265.4	6194.6	6233.0	5925.9
50°	8987.8	8766.3	8518.3	8367.7	8624.6	8178.7	7139.4	6926.8	6752.6	6779.2	6460.3
52.5°	9469.0	9097.0	8934.6	8978.9	9324.4	9153.1	7868.7	7608.9	7328.4	7366.8	6991.8
55°	9055.7	9052.7	9123.6	9398.2	9879.4	9681.6	8562.6	8270.3	7963.2	7972.1	7603.0
57.5°	8488.8	8603.9	8970.0	9575.3	10567.4	10236.7	9244.6	8934.6	8654.1	8609.8	8296.8
60°	7972.1	8099.0	8630.5	9545.8	10806.6	10744.6	9894.2	9622.6	9395.2	9265.3	9026.1
62.5°	7186.7	7281.1	8034.1	9356.8	10605.8	11110.7	10552.6	10366.6	10195.4	9926.7	9811.5
65°	6262.5	6295.0	7089.2	8733.8	10354.8	11252.4	11208.1	11125.4	10960.1	10564.4	10588.1
67.5°	5261.6	5326.5	6023.3	7738.8	9805.6	11187.4	11716.0	11783.9	11589.0	10995.5	11084.1
70°	4195.7	4275.4	4803.9	6362.9	8872.6	10907.0	12185.4	12294.7	11919.7	11137.3	11175.6
72.5°	2595.3	2672.1	3026.4	4420.1	7033.1	9965.1	12330.1	12471.8	11928.6	10948.3	10579.2
75°	897.6	906.5	1184.0	2120.0	4175.0	7523.3	11857.7	12191.3	11553.6	10260.3	9206.2
77.5°	410.4	425.2	525.6	874.0	1851.3	4059.8	9790.9	10626.5	10413.9	9185.6	7086.3
80°	283.5	289.4	363.2	522.6	1068.8	1429.1	6179.8	7269.3	7641.4	7112.8	4541.1
82.5°	212.6	218.5	280.5	354.3	770.6	693.9	2353.2	3377.8	4198.6	4121.8	1898.5
85°	203.7	200.8	218.5	236.2	513.8	413.4	761.8	1045.2	1638.7	1402.5	478.3
87.5°	88.6	97.4	224.4	132.9	268.7	191.9	330.7	386.8	499.0	434.0	171.3
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°	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1	2359.1
2.5°	2341.4	2347.3	2365.0	2391.6	2406.4	2435.9	2456.6	2468.4	2477.2	2480.2	2480.2
5°	2320.8	2332.6	2370.9	2415.2	2456.6	2518.6	2574.7	2607.2	2630.8	2639.6	2642.6
7.5°	2326.7	2356.2	2412.3	2477.2	2530.4	2610.1	2678.0	2743.0	2796.1	2816.8	2816.8
10°	2382.8	2424.1	2500.9	2586.5	2654.4	2737.1	2807.9	2864.0	2926.0	2961.5	2967.4
12.5°	2468.4	2518.6	2619.0	2713.5	2790.2	2855.2	2920.1	2961.5	2991.0	3017.6	3023.5
15°	2589.4	2651.4	2751.8	2849.3	2917.2	2958.5	2976.2	2976.2	2973.3	2976.2	2982.1
17.5°	2710.5	2769.6	2869.9	2967.4	2999.9	2976.2	2955.6	2949.7	2946.7	2940.8	2943.8
20°	2828.6	2884.7	2970.3	3044.1	3017.6	2934.9	2908.3	2905.4	2896.5	2890.6	2884.7
22.5°	2946.7	2988.0	3058.9	3085.5	2979.2	2861.1	2828.6	2810.9	2799.1	2784.3	2769.6
25°	3082.5	3094.3	3147.5	3106.1	2884.7	2725.3	2678.0	2651.4	2639.6	2624.9	2613.1
27.5°	3209.5	3209.5	3218.3	3073.7	2745.9	2545.2	2474.3	2427.0	2424.1	2421.1	2418.2
30°	3324.6	3309.9	3280.4	2976.2	2565.8	2323.7	2217.4	2170.2	2187.9	2202.6	2205.6
32.5°	3460.5	3430.9	3348.3	2843.4	2350.3	2075.7	1945.8	1925.1	1945.8	1963.5	1951.7
35°	3673.1	3619.9	3419.1	2689.8	2143.6	1848.3	1724.3	1694.8	1688.9	1685.9	1662.3
37.5°	3977.2	3885.6	3475.2	2524.5	1939.9	1647.6	1556.0	1494.0	1437.9	1378.9	1370.0
40°	4349.2	4192.7	3513.6	2335.5	1724.3	1479.3	1381.8	1302.1	1207.6	1104.3	1092.5
42.5°	4756.7	4523.4	3531.3	2125.9	1535.4	1340.5	1219.4	1119.0	1012.7	933.0	918.3
45°	5196.6	4880.7	3516.6	1925.1	1381.8	1222.4	1086.6	977.3	891.7	835.6	823.8
47.5°	5624.7	5291.1	3475.2	1765.7	1263.7	1122.0	983.2	882.8	817.9	755.9	741.1
50°	6173.9	5683.8	3425.0	1641.7	1133.8	1021.6	918.3	812.0	738.2	708.6	702.7
52.5°	6782.2	6076.5	3366.0	1485.2	1006.8	941.9	876.9	782.4	758.8	702.7	693.9
55°	7440.6	6543.0	3354.2	1287.3	894.6	885.8	835.6	809.0	814.9	702.7	688.0
57.5°	8134.4	7042.0	3380.7	1089.5	803.1	835.6	853.3	832.6	823.8	717.5	688.0
60°	8857.8	7523.3	3301.0	906.5	732.2	794.3	874.0	820.8	755.9	711.6	690.9
62.5°	9560.6	7927.8	2955.6	776.5	679.1	782.4	862.2	776.5	702.7	702.7	693.9
65°	10071.4	8107.9	2311.9	682.1	643.7	767.7	841.5	747.0	688.0	708.6	696.8
67.5°	10130.4	7921.9	1553.1	608.2	614.1	741.1	794.3	720.4	673.2	726.3	708.6
70°	9767.2	7437.6	950.7	552.1	575.8	693.9	752.9	693.9	652.5	711.6	685.0
72.5°	8825.4	6534.1	670.2	504.9	534.4	649.6	714.5	670.2	623.0	643.7	617.1
75°	7239.8	5063.7	531.5	460.6	493.1	608.2	682.1	634.8	587.6	578.7	561.0
77.5°	5128.7	3244.9	428.1	425.2	448.8	558.0	637.8	593.5	546.2	528.5	516.7
80°	2949.7	1591.5	369.1	383.8	407.5	507.8	584.6	546.2	501.9	475.4	457.7
82.5°	1127.9	555.1	324.8	333.6	360.2	454.7	531.5	499.0	454.7	478.3	401.6
85°	366.1	304.1	265.7	274.6	301.2	377.9	469.5	442.9	392.7	348.4	321.8
87.5°	162.4	165.3	141.7	156.5	189.0	251.0	342.5	324.8	286.4	239.2	230.3
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)