

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: P399773

Luminaire Tested: **ARCH-L-PA3-190-727-U-T3**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399773  
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-PA3-190-727-U-T3  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23146 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

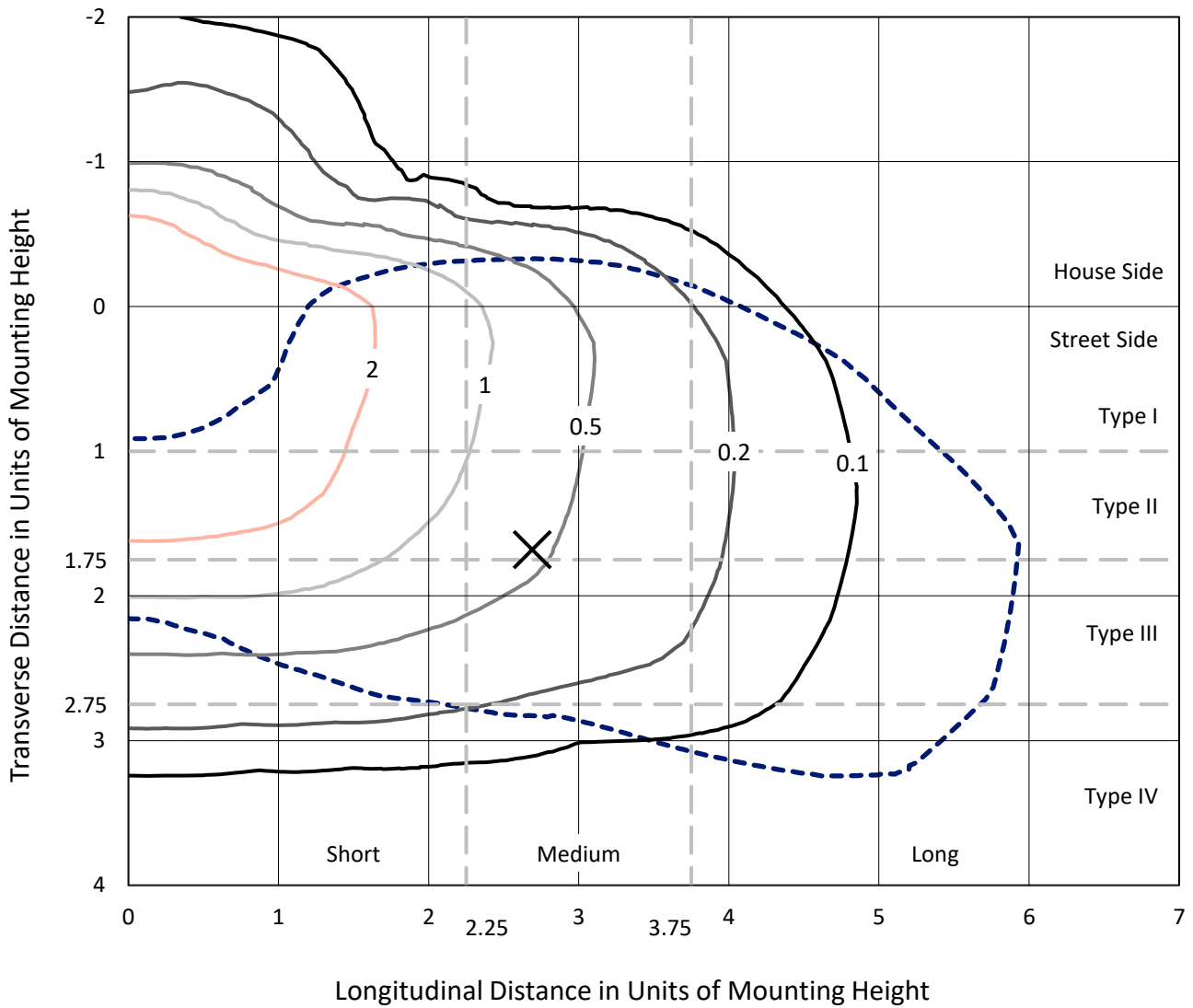
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

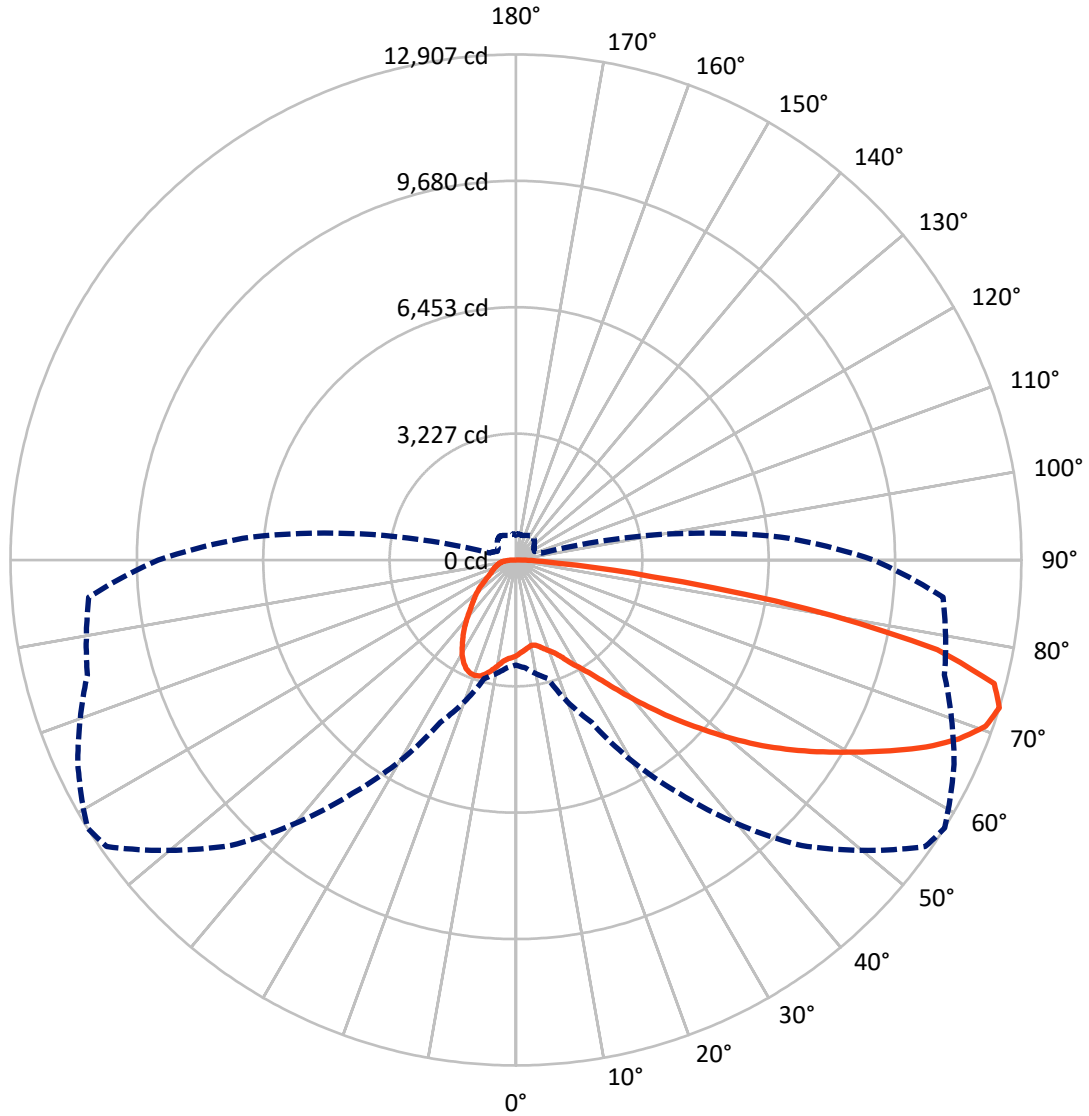
✕ Max cd  
 - - - 1/2 Max cd



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

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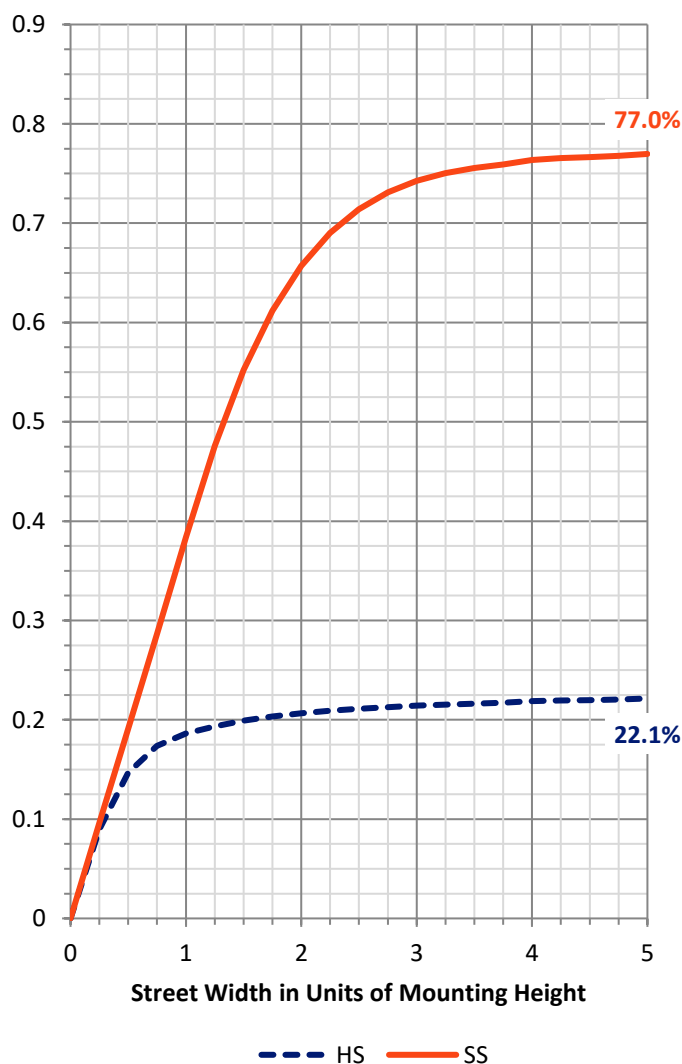
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5249.2	0.0	5249.2
	% Fixture	22.7	0.0	22.7
<b>Street Side</b>	Lumens	17896.8	0.0	17896.8
	% Fixture	77.3	0.0	77.3
<b>Total</b>	Lumens	23146.0	0.0	23146.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.2	1.0
10°-20°	746.9	3.2
20°-30°	1337.9	5.8
30°-40°	2012.6	8.7
40°-50°	3259.1	14.1
50°-60°	4906.0	21.2
60°-70°	5773.9	24.9
70°-80°	4094.2	17.7
80°-90°	780.1	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°	23146.0	100.0
0°-180°	23146.0	100.0

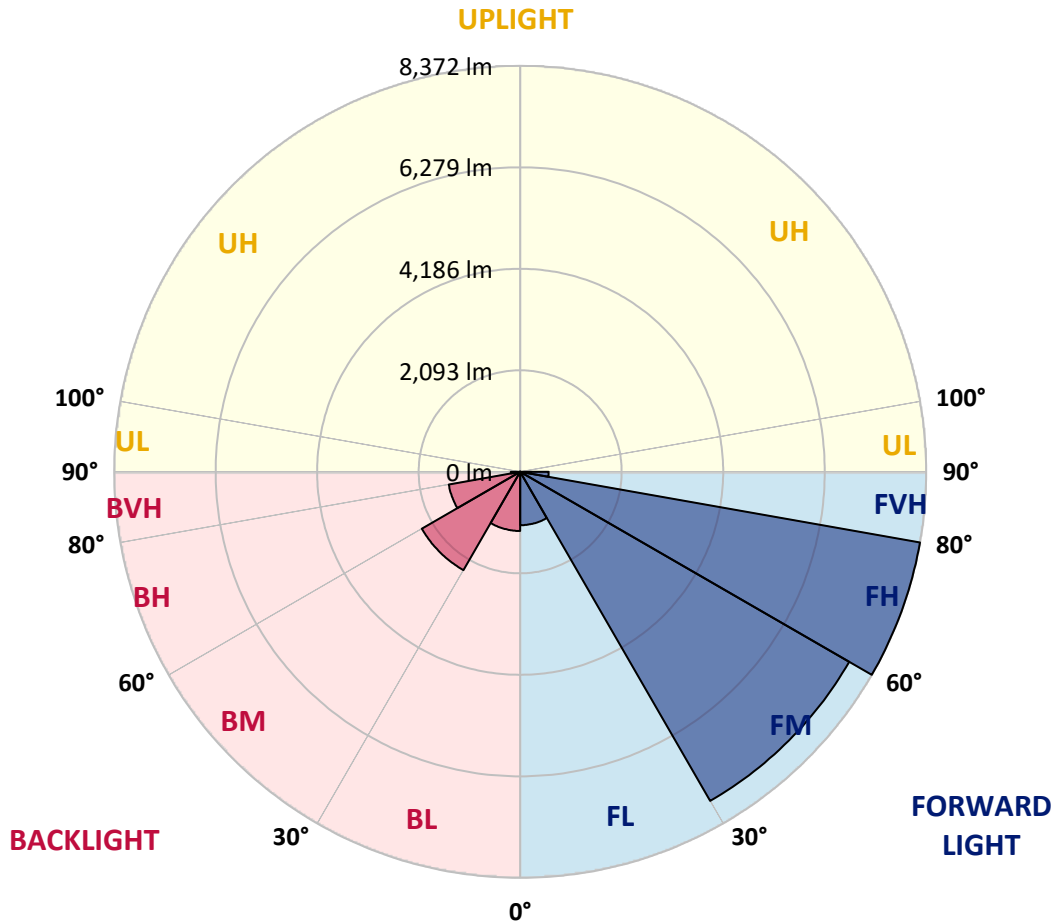


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.7	4.8			
FM (30°-60°)	7835.6	33.9			
FH (60°-80°)	8372.0	36.2			G4/12000
FVH (80°-90°)	588.5	2.5			G4/750
BL (0°-30°)	1219.3	5.3	B3/2500		
BM (30°-60°)	2342.2	10.1	B2/2500		
BH (60°-80°)	1496.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	191.7	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°	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4
2.5°	2349.7	2337.5	2340.6	2340.6	2352.8	2358.9	2362.0	2371.1	2377.2	2392.5	2413.9
5°	2239.7	2230.6	2233.6	2236.7	2258.1	2279.5	2297.8	2310.0	2328.4	2352.8	2383.4
7.5°	2160.3	2154.2	2157.2	2163.4	2181.7	2206.1	2236.7	2255.0	2282.5	2328.4	2380.3
10°	2102.2	2102.2	2105.3	2117.5	2135.9	2166.4	2190.9	2212.2	2267.2	2349.7	2429.2
12.5°	2056.4	2056.4	2065.6	2090.0	2120.6	2151.1	2209.2	2233.6	2307.0	2420.0	2514.7
15°	2053.4	2056.4	2059.5	2080.9	2114.5	2181.7	2267.2	2303.9	2392.5	2527.0	2637.0
17.5°	2102.2	2105.3	2093.1	2099.2	2138.9	2233.6	2346.7	2389.5	2502.5	2649.2	2762.2
20°	2252.0	2252.0	2215.3	2181.7	2209.2	2313.1	2441.4	2484.2	2609.5	2771.4	2884.5
22.5°	2557.5	2572.8	2487.2	2413.9	2371.1	2429.2	2545.3	2591.1	2731.7	2905.9	3018.9
25°	2927.2	2942.5	2826.4	2722.5	2643.1	2633.9	2710.3	2759.2	2875.3	3055.6	3150.3
27.5°	3284.8	3257.3	3150.3	3052.5	2951.7	2869.2	2927.2	2970.0	3104.5	3242.0	3300.0
30°	3565.9	3544.5	3440.6	3370.3	3275.6	3168.6	3135.0	3180.9	3290.9	3419.2	3449.8
32.5°	3877.5	3862.3	3758.4	3666.7	3587.3	3486.4	3413.1	3434.5	3495.6	3587.3	3605.6
35°	4274.8	4308.4	4198.4	4012.0	3923.4	3825.6	3773.6	3779.8	3825.6	3883.6	3853.1
37.5°	4693.4	4733.1	4739.2	4445.9	4326.7	4238.1	4183.1	4204.5	4259.5	4299.2	4204.5
40°	5469.5	5429.8	5270.9	5053.9	4870.6	4785.0	4708.7	4705.6	4745.3	4815.6	4644.5
42.5°	6499.2	6462.6	6141.7	5860.6	5570.3	5472.5	5322.8	5258.7	5277.0	5365.6	5127.3
45°	7486.2	7470.9	7214.2	6887.3	6538.9	6349.5	6007.3	5851.4	5836.2	5906.4	5622.3
47.5°	8363.1	8295.9	8109.5	7855.9	7819.2	7324.2	6694.8	6483.9	6410.6	6450.3	6132.6
50°	9301.2	9072.0	8815.4	8659.5	8925.4	8464.0	7388.4	7168.4	6988.1	7015.6	6685.6
52.5°	9799.3	9414.3	9246.2	9292.0	9649.5	9472.3	8143.1	7874.2	7584.0	7623.7	7235.6
55°	9371.5	9368.4	9441.8	9725.9	10224.0	10019.3	8861.2	8558.7	8240.9	8250.1	7868.1
57.5°	8784.8	8904.0	9282.9	9909.3	10935.9	10593.7	9567.0	9246.2	8955.9	8910.1	8586.2
60°	8250.1	8381.5	8931.5	9878.7	11183.4	11119.3	10239.3	9958.1	9722.9	9588.4	9340.9
62.5°	7437.3	7535.1	8314.2	9683.1	10975.7	11498.2	10920.7	10728.2	10550.9	10272.9	10153.7
65°	6480.9	6514.5	7336.5	9038.4	10715.9	11644.8	11599.0	11513.4	11342.3	10932.9	10957.3
67.5°	5445.0	5512.3	6233.4	8008.7	10147.6	11577.6	12124.6	12194.8	11993.2	11379.0	11470.7
70°	4342.0	4424.5	4971.4	6584.8	9182.0	11287.3	12610.4	12723.4	12335.4	11525.7	11565.4
72.5°	2685.9	2765.3	3132.0	4574.2	7278.4	10312.6	12760.1	12906.8	12344.6	11330.1	10948.2
75°	928.9	938.1	1225.3	2193.9	4320.6	7785.6	12271.2	12616.5	11956.5	10618.2	9527.3
77.5°	424.7	440.0	543.9	904.5	1915.9	4201.4	10132.3	10997.0	10777.0	9505.9	7333.4
80°	293.3	299.4	375.8	540.8	1106.1	1478.9	6395.3	7522.8	7907.8	7360.9	4699.5
82.5°	220.0	226.1	290.3	366.7	797.5	718.1	2435.3	3495.6	4345.0	4265.6	1964.7
85°	210.8	207.8	226.1	244.4	531.7	427.8	788.3	1081.7	1695.8	1451.4	495.0
87.5°	91.7	100.8	232.2	137.5	278.1	198.6	342.2	400.3	516.4	449.2	177.2
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°	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4	2441.4
2.5°	2423.1	2429.2	2447.5	2475.0	2490.3	2520.9	2542.2	2554.5	2563.6	2566.7	2566.7
5°	2401.7	2413.9	2453.6	2499.5	2542.2	2606.4	2664.5	2698.1	2722.5	2731.7	2734.7
7.5°	2407.8	2438.4	2496.4	2563.6	2618.6	2701.1	2771.4	2838.6	2893.6	2915.0	2915.0
10°	2465.9	2508.6	2588.1	2676.7	2747.0	2832.5	2905.9	2963.9	3028.1	3064.7	3070.9
12.5°	2554.5	2606.4	2710.3	2808.1	2887.5	2954.7	3022.0	3064.7	3095.3	3122.8	3128.9
15°	2679.7	2743.9	2847.8	2948.6	3018.9	3061.7	3080.0	3080.0	3077.0	3080.0	3086.1
17.5°	2805.0	2866.1	2970.0	3070.9	3104.5	3080.0	3058.6	3052.5	3049.5	3043.4	3046.4
20°	2927.2	2985.3	3073.9	3150.3	3122.8	3037.2	3009.7	3006.7	2997.5	2991.4	2985.3
22.5°	3049.5	3092.3	3165.6	3193.1	3083.1	2960.9	2927.2	2908.9	2896.7	2881.4	2866.1
25°	3190.0	3202.3	3257.3	3214.5	2985.3	2820.3	2771.4	2743.9	2731.7	2716.4	2704.2
27.5°	3321.4	3321.4	3330.6	3180.9	2841.7	2633.9	2560.6	2511.7	2508.6	2505.6	2502.5
30°	3440.6	3425.3	3394.8	3080.0	2655.3	2404.7	2294.7	2245.9	2264.2	2279.5	2282.5
32.5°	3581.1	3550.6	3465.0	2942.5	2432.2	2148.1	2013.6	1992.2	2013.6	2032.0	2019.7
35°	3801.1	3746.1	3538.4	2783.6	2218.4	1912.8	1784.5	1753.9	1747.8	1744.7	1720.3
37.5°	4115.9	4021.1	3596.4	2612.5	2007.5	1705.0	1610.3	1546.1	1488.1	1427.0	1417.8
40°	4500.9	4338.9	3636.1	2417.0	1784.5	1530.8	1430.0	1347.5	1249.7	1142.8	1130.6
42.5°	4922.5	4681.2	3654.5	2200.0	1588.9	1387.2	1262.0	1158.1	1048.1	965.6	950.3
45°	5377.8	5050.9	3639.2	1992.2	1430.0	1265.0	1124.5	1011.4	922.8	864.7	852.5
47.5°	5820.9	5475.6	3596.4	1827.2	1307.8	1161.1	1017.5	913.6	846.4	782.2	767.0
50°	6389.2	5882.0	3544.5	1698.9	1173.3	1057.2	950.3	840.3	763.9	733.3	727.2
52.5°	7018.7	6288.4	3483.4	1537.0	1042.0	974.7	907.5	809.7	785.3	727.2	718.1
55°	7700.1	6771.2	3471.1	1332.2	925.8	916.7	864.7	837.2	843.3	727.2	712.0
57.5°	8418.1	7287.6	3498.6	1127.5	831.1	864.7	883.1	861.7	852.5	742.5	712.0
60°	9166.7	7785.6	3416.1	938.1	757.8	822.0	904.5	849.5	782.2	736.4	715.0
62.5°	9894.0	8204.2	3058.6	803.6	702.8	809.7	892.2	803.6	727.2	727.2	718.1
65°	10422.6	8390.6	2392.5	705.8	666.1	794.5	870.8	773.1	712.0	733.3	721.1
67.5°	10483.7	8198.1	1607.2	629.5	635.6	767.0	822.0	745.6	696.7	751.7	733.3
70°	10107.9	7697.0	983.9	571.4	595.8	718.1	779.2	718.1	675.3	736.4	708.9
72.5°	9133.1	6762.0	693.6	522.5	553.1	672.2	739.5	693.6	644.7	666.1	638.6
75°	7492.3	5240.3	550.0	476.7	510.3	629.5	705.8	657.0	608.1	598.9	580.6
77.5°	5307.5	3358.1	443.1	440.0	464.4	577.5	660.0	614.2	565.3	546.9	534.7
80°	3052.5	1647.0	381.9	397.2	421.7	525.6	605.0	565.3	519.4	491.9	473.6
82.5°	1167.2	574.4	336.1	345.3	372.8	470.6	550.0	516.4	470.6	495.0	415.6
85°	378.9	314.7	275.0	284.2	311.7	391.1	485.8	458.3	406.4	360.6	333.1
87.5°	168.1	171.1	146.7	161.9	195.6	259.7	354.4	336.1	296.4	247.5	238.3
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)