

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: P399843

Luminaire Tested: **ARCH-L-PA3-200-727-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/19/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: ARCH-L-PA3-200-727-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24192 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

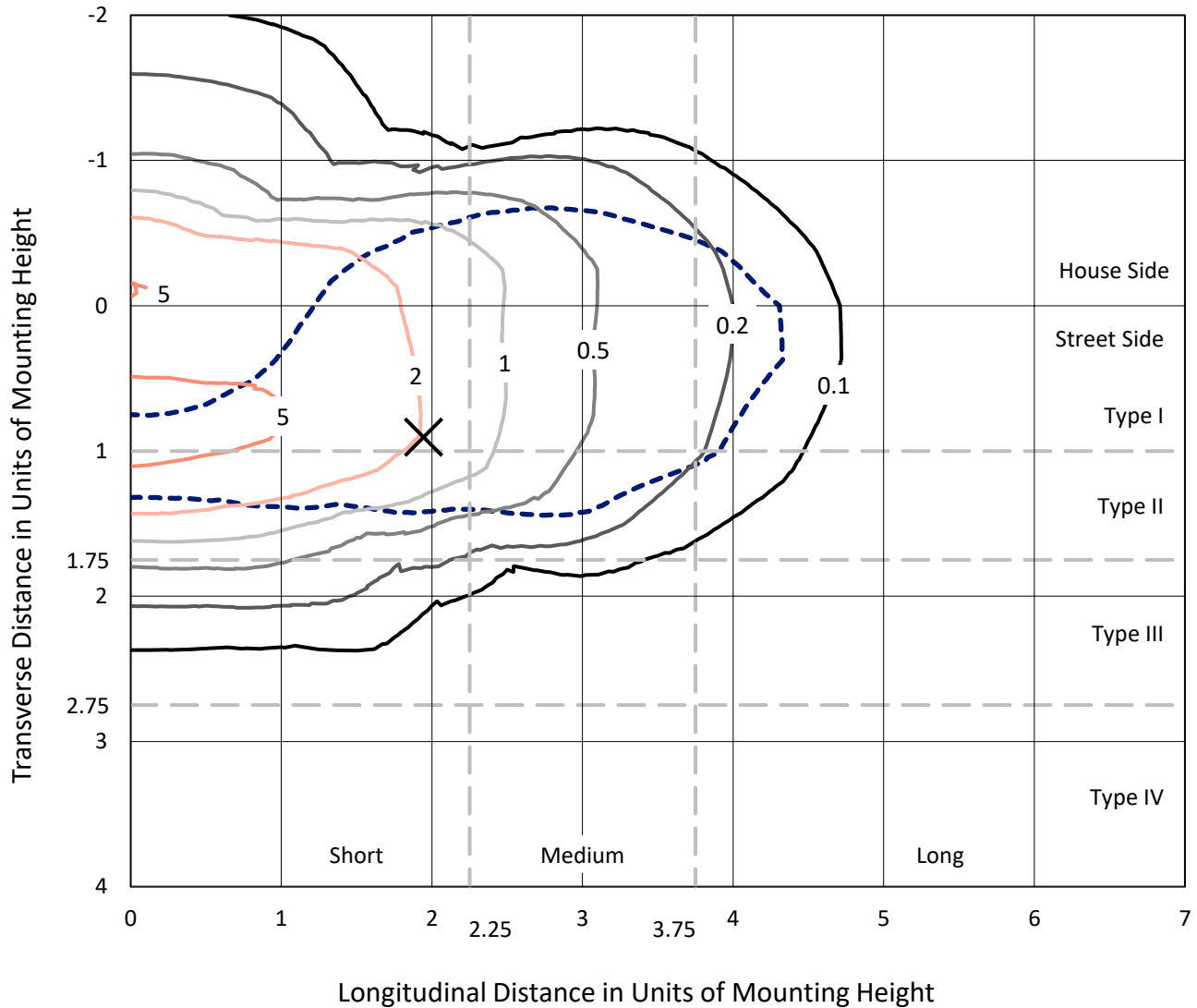
Input Watts (W): 201  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

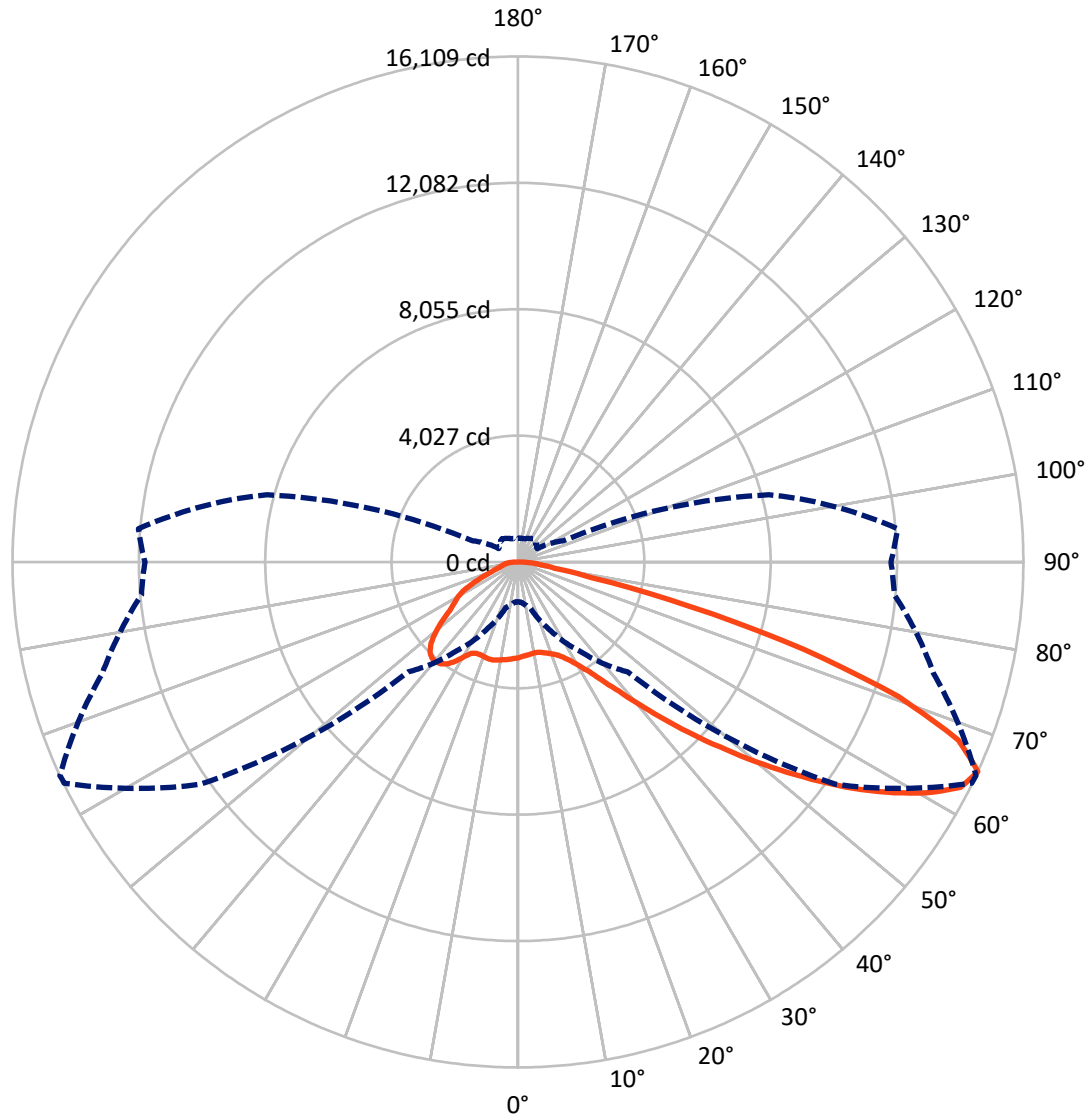
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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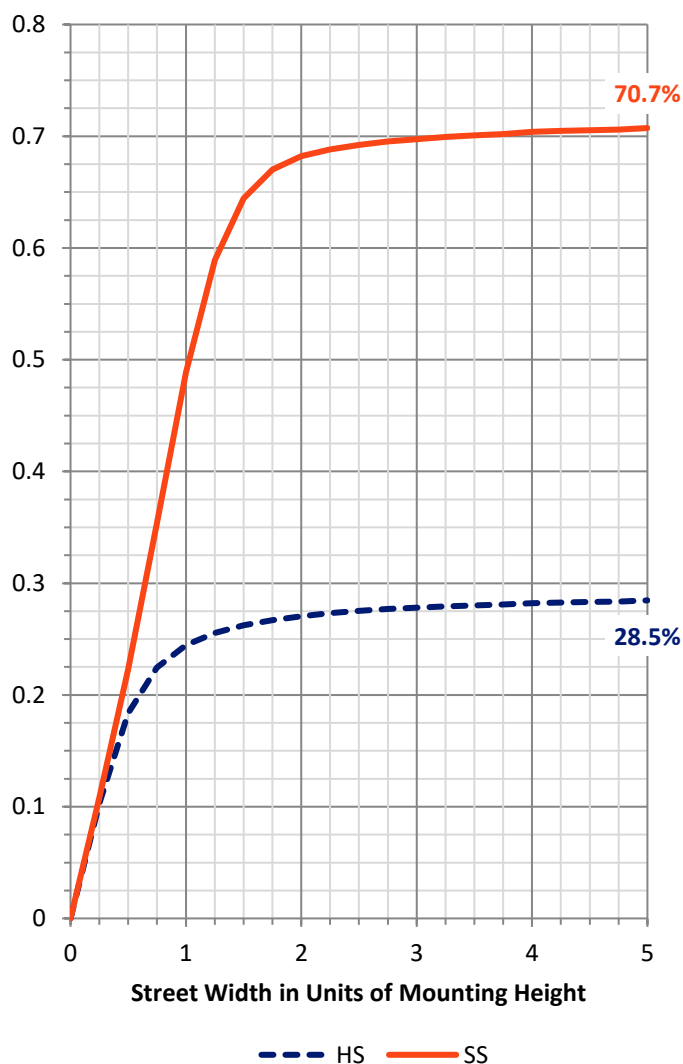
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6994.3	0.0	6994.3
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	17197.7	0.0	17197.7
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	24192.0	0.0	24192.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	291.2	1.2
10°-20°	869.5	3.6
20°-30°	1544.5	6.4
30°-40°	2612.9	10.8
40°-50°	4548.6	18.8
50°-60°	5878.2	24.3
60°-70°	5143.7	21.3
70°-80°	2797.8	11.6
80°-90°	505.5	2.1
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°	24192.0	100.0
0°-180°	24192.0	100.0

**Coefficient of Utilization**



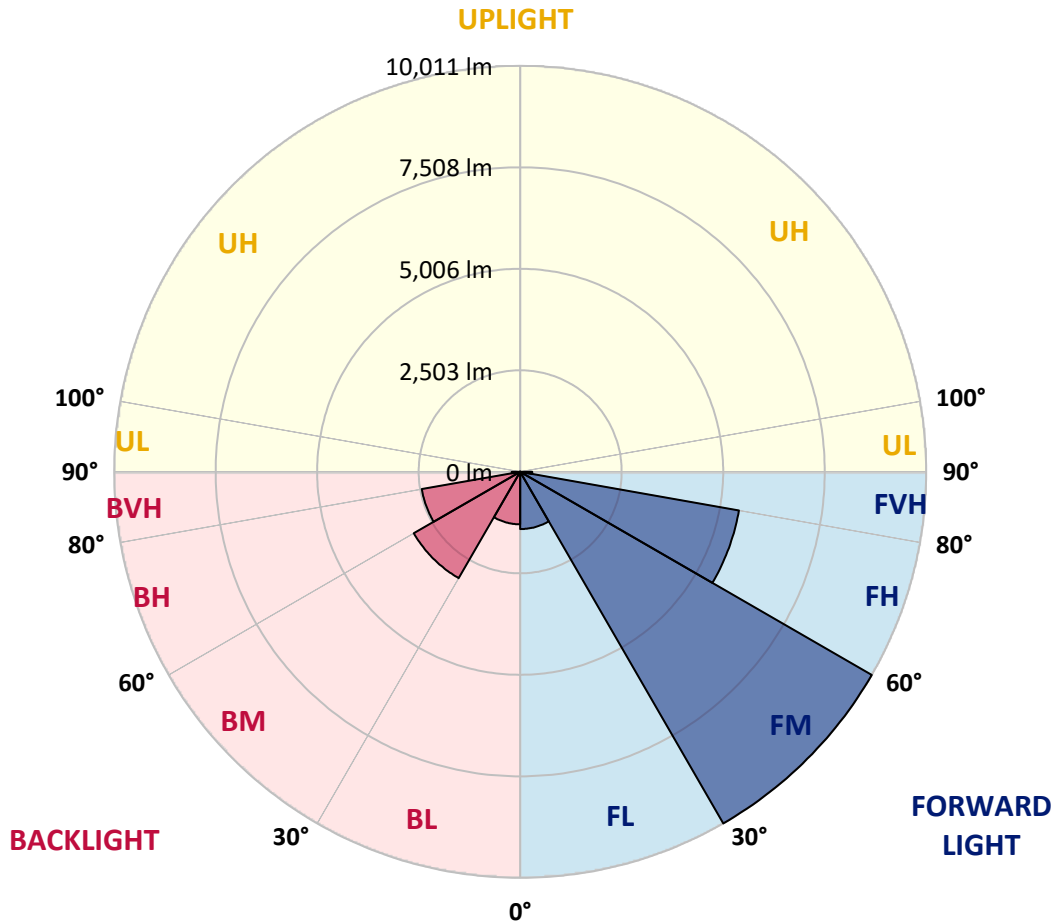
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1411.5	5.8			
FM (30°-60°)	10011.3	41.4			
FH (60°-80°)	5477.4	22.6			G3/7500
FVH (80°-90°)	297.5	1.2			G3/500
BL (0°-30°)	1293.7	5.3	B3/2500		
BM (30°-60°)	3028.4	12.5	B3/5000		
BH (60°-80°)	2464.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	208.0	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	3002.8	2999.6	2993.2	2999.6	3002.8	3009.1	3005.9	3012.3	3009.1	3018.7	3034.6
5°	2926.3	2920.0	2916.8	2932.7	2942.3	2958.2	2964.5	2986.8	2983.7	2999.6	3025.0
7.5°	2840.4	2840.4	2837.2	2856.3	2869.0	2897.7	2920.0	2958.2	2961.4	2990.0	3018.7
10°	2773.5	2776.7	2773.5	2789.4	2808.5	2843.5	2881.8	2935.9	2939.1	2980.5	3009.1
12.5°	2748.0	2748.0	2748.0	2770.3	2795.8	2843.5	2888.1	2945.4	2951.8	2996.4	3021.9
15°	2783.0	2786.2	2779.9	2802.2	2830.8	2888.1	2929.5	2990.0	2996.4	3037.8	3053.7
17.5°	2907.2	2920.0	2904.0	2916.8	2910.4	2955.0	2993.2	3053.7	3056.9	3091.9	3098.3
20°	3152.4	3165.2	3139.7	3123.8	3066.4	3063.3	3079.2	3126.9	3126.9	3149.2	3133.3
22.5°	3531.3	3544.1	3499.5	3439.0	3302.1	3235.2	3200.2	3222.5	3219.3	3228.8	3187.4
25°	4034.5	4031.3	3977.1	3865.7	3646.0	3483.6	3397.6	3362.6	3362.6	3343.5	3292.5
27.5°	4658.6	4610.8	4515.3	4381.5	4075.9	3849.8	3665.1	3575.9	3560.0	3502.7	3407.2
30°	5324.1	5289.1	5152.1	4957.9	4604.4	4314.7	4009.0	3830.7	3821.1	3696.9	3553.6
32.5°	6107.4	6050.1	5897.3	5664.8	5241.3	4833.7	4451.6	4180.9	4165.0	3967.6	3770.2
35°	7113.6	7065.9	6769.7	6537.3	5992.8	5457.8	5005.7	4645.8	4633.1	4391.1	4139.5
37.5°	8320.5	8196.3	7909.7	7473.5	6900.3	6266.6	5693.5	5241.3	5225.4	4957.9	4639.5
40°	9396.8	9285.3	9030.6	8629.4	8014.8	7311.1	6534.1	5986.4	5970.5	5645.7	5244.5
42.5°	10192.8	10116.4	9950.8	9718.4	9278.9	8852.3	7607.2	6887.6	6858.9	6438.6	5938.7
45°	10654.5	10594.0	10498.5	10555.8	10549.5	10469.9	8887.3	7960.7	7868.3	7323.8	6712.4
47.5°	10543.1	10489.0	10527.2	10973.0	11587.5	12049.3	10377.5	9059.2	8935.0	8225.0	7537.1
50°	9737.5	9759.8	9960.4	10813.8	12192.5	13217.9	12030.1	10310.6	10145.1	9132.5	8320.5
52.5°	8269.5	8323.7	8810.9	10005.0	12125.7	13975.7	13523.6	11603.5	11383.7	10017.7	9033.8
55°	6569.1	6706.1	7336.5	8591.1	11253.2	14029.9	14650.8	12902.6	12660.6	10848.8	9654.7
57.5°	4859.2	5063.0	5792.2	6944.9	9581.4	13173.3	15214.4	14144.5	13851.5	11673.5	10310.6
60°	3082.4	3206.6	4047.2	5406.9	7333.4	11078.1	15141.2	15201.7	14946.9	12495.0	10995.3
62.5°	1967.9	2028.4	2451.9	3856.1	5126.7	8202.7	14341.9	16000.9	15829.0	13243.3	11644.8
65°	1264.2	1289.6	1506.2	2372.3	3490.0	4951.5	12351.8	16086.9	16109.2	13711.4	12046.1
67.5°	1028.5	1041.3	1120.9	1464.8	2467.8	2735.3	8603.9	14864.1	15134.8	13590.4	11909.1
70°	936.2	952.1	1034.9	1168.6	1910.6	1888.3	4165.0	12437.7	12880.3	12893.1	11300.9
72.5°	789.7	812.0	923.4	1104.9	1477.5	1490.2	1764.1	8858.6	9511.4	11523.8	10387.1
75°	659.1	671.9	767.4	974.4	1251.4	1190.9	1238.7	4696.8	5639.3	9240.7	9415.9
77.5°	535.0	547.7	617.7	777.0	1111.3	926.6	974.4	1945.6	2404.1	6273.0	7696.4
80°	382.1	394.8	474.5	605.0	840.6	834.3	722.8	1073.1	1165.4	3391.2	4999.3
82.5°	273.8	283.4	359.8	433.1	582.7	837.5	544.5	729.2	764.2	1503.0	2015.6
85°	184.7	184.7	248.4	286.6	375.7	528.6	439.4	493.6	515.9	713.3	544.5
87.5°	79.6	79.6	133.7	146.5	197.4	245.2	328.0	248.4	254.7	385.3	222.9
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°	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9	3056.9
2.5°	3044.2	3047.3	3053.7	3072.8	3085.6	3104.7	3114.2	3126.9	3126.9	3120.6	3123.8
5°	3037.8	3047.3	3069.6	3104.7	3126.9	3162.0	3187.4	3206.6	3212.9	3206.6	3209.7
7.5°	3034.6	3050.5	3088.7	3139.7	3171.5	3216.1	3251.1	3273.4	3289.3	3283.0	3286.2
10°	3025.0	3050.5	3098.3	3162.0	3209.7	3254.3	3286.2	3295.7	3305.3	3298.9	3295.7
12.5°	3037.8	3066.4	3117.4	3193.8	3247.9	3283.0	3292.5	3276.6	3254.3	3241.6	3238.4
15°	3063.3	3091.9	3142.9	3222.5	3270.2	3283.0	3260.7	3209.7	3158.8	3130.1	3126.9
17.5°	3098.3	3117.4	3158.8	3228.8	3267.1	3251.1	3206.6	3146.1	3107.8	3085.6	3088.7
20°	3120.6	3120.6	3152.4	3206.6	3238.4	3225.7	3171.5	3104.7	3044.2	3015.5	3005.9
22.5°	3152.4	3136.5	3139.7	3187.4	3232.0	3212.9	3098.3	2980.5	2894.5	2862.7	2859.5
25°	3238.4	3193.8	3165.2	3193.8	3298.9	3142.9	2913.6	2776.7	2697.1	2668.4	2671.6
27.5°	3343.5	3283.0	3222.5	3270.2	3353.0	2983.7	2678.0	2521.9	2474.2	2451.9	2461.4
30°	3448.6	3368.9	3289.3	3461.3	3314.8	2735.3	2375.5	2222.6	2181.2	2165.3	2178.0
32.5°	3642.8	3512.2	3416.7	3716.0	3197.0	2451.9	2047.5	1907.4	1869.2	1850.1	1843.7
35°	3967.6	3802.0	3706.5	3938.9	3031.4	2136.6	1748.2	1649.4	1608.1	1566.7	1560.3
37.5°	4435.7	4235.1	4149.1	4066.3	2799.0	1824.6	1518.9	1452.0	1391.5	1327.8	1324.7
40°	4996.1	4735.0	4671.3	4123.6	2477.4	1531.6	1359.7	1296.0	1219.6	1159.1	1162.3
42.5°	5642.5	5308.2	5171.2	4107.7	2079.3	1375.6	1245.0	1175.0	1108.1	1054.0	1050.8
45°	6333.5	5954.6	5639.3	3996.2	1684.5	1267.3	1175.0	1092.2	1025.3	964.8	958.5
47.5°	7097.7	6674.2	6072.4	3779.7	1391.5	1190.9	1133.6	1015.8	955.3	917.1	917.1
50°	7868.3	7362.0	6470.4	3451.7	1219.6	1133.6	1073.1	974.4	926.6	894.8	894.8
52.5°	8527.5	8078.5	6798.4	3060.1	1111.3	1085.8	1031.7	955.3	904.3	875.7	872.5
55°	9167.5	8744.0	7091.4	2671.6	1022.1	1022.1	1022.1	939.4	882.0	856.6	853.4
57.5°	9804.3	9444.5	7397.0	2416.9	942.5	968.0	1003.0	920.3	862.9	840.6	837.5
60°	10524.0	10285.2	7750.5	2238.5	872.5	910.7	977.6	898.0	831.1	812.0	808.8
62.5°	11288.2	11288.2	8072.1	1987.0	808.8	862.9	939.4	869.3	802.4	786.5	783.3
65°	11886.9	12144.8	8279.1	1611.2	745.1	815.2	894.8	831.1	764.2	761.0	754.7
67.5°	11956.9	12361.3	8148.5	1216.4	687.8	764.2	850.2	789.7	726.0	726.0	716.5
70°	11453.8	11864.6	7740.9	910.7	646.4	713.3	792.9	738.7	678.2	684.6	668.7
72.5°	10613.1	10715.0	6728.3	719.6	598.6	659.1	722.8	681.4	627.3	627.3	605.0
75°	9505.0	8938.2	4887.8	601.8	541.3	595.5	652.8	617.7	570.0	554.1	541.3
77.5°	7565.8	6476.8	2840.4	519.0	493.6	535.0	573.2	547.7	506.3	471.3	471.3
80°	4610.8	3795.6	1254.6	449.0	436.2	468.1	493.6	464.9	429.9	394.8	385.3
82.5°	1754.5	1464.8	608.2	385.3	382.1	401.2	420.3	391.7	366.2	350.3	302.5
85°	480.8	442.6	417.1	321.6	315.2	312.1	334.3	321.6	286.6	235.6	210.2
87.5°	181.5	207.0	226.1	197.4	210.2	194.2	222.9	203.8	181.5	117.8	105.1
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)