

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: P400063

Luminaire Tested: **ARCH-L-PA3-230-727-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400063  
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-PA3-230-727-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 2700K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26426 lumens  
Efficiency: N/A  
Efficacy: 115.4 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

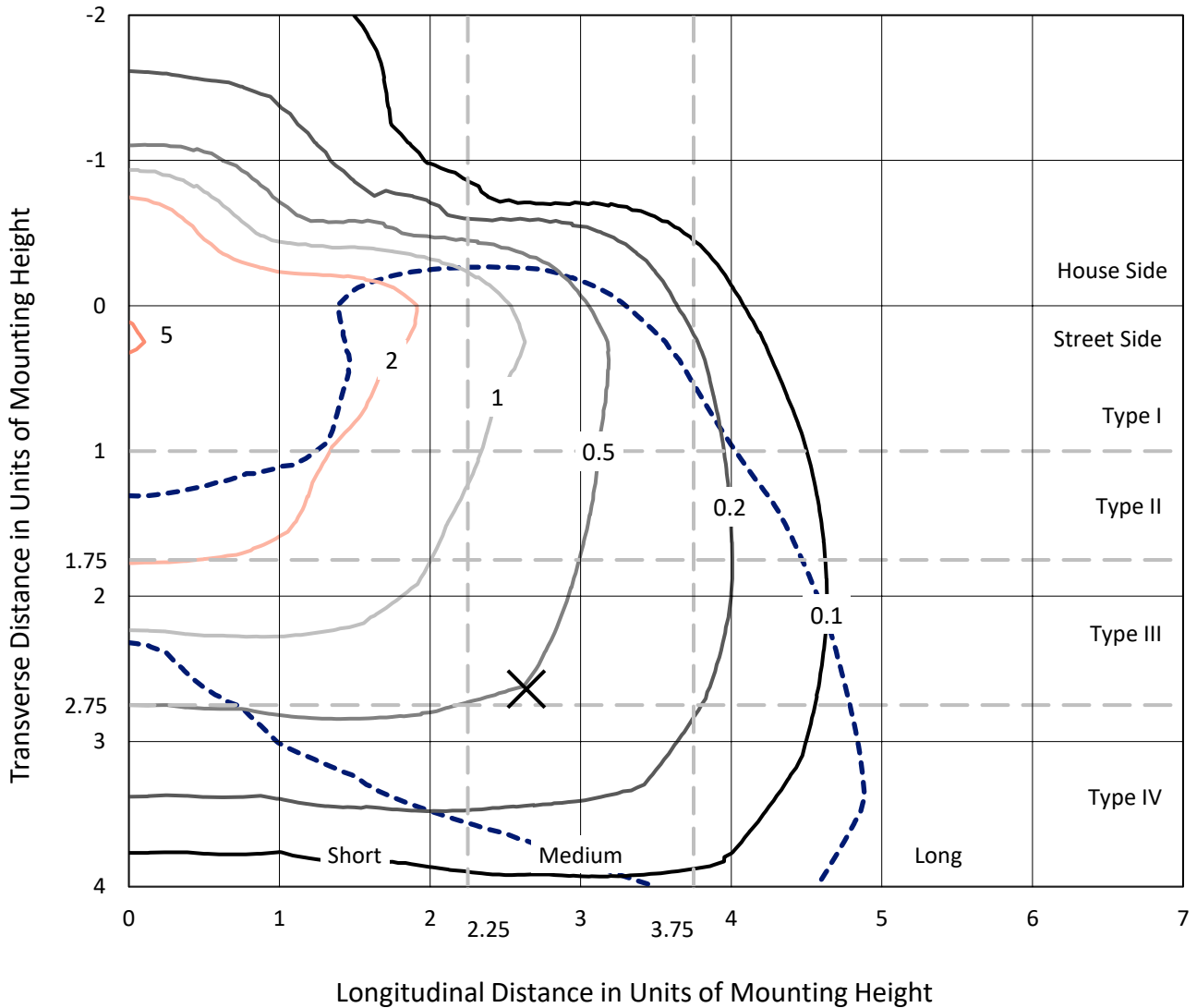
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

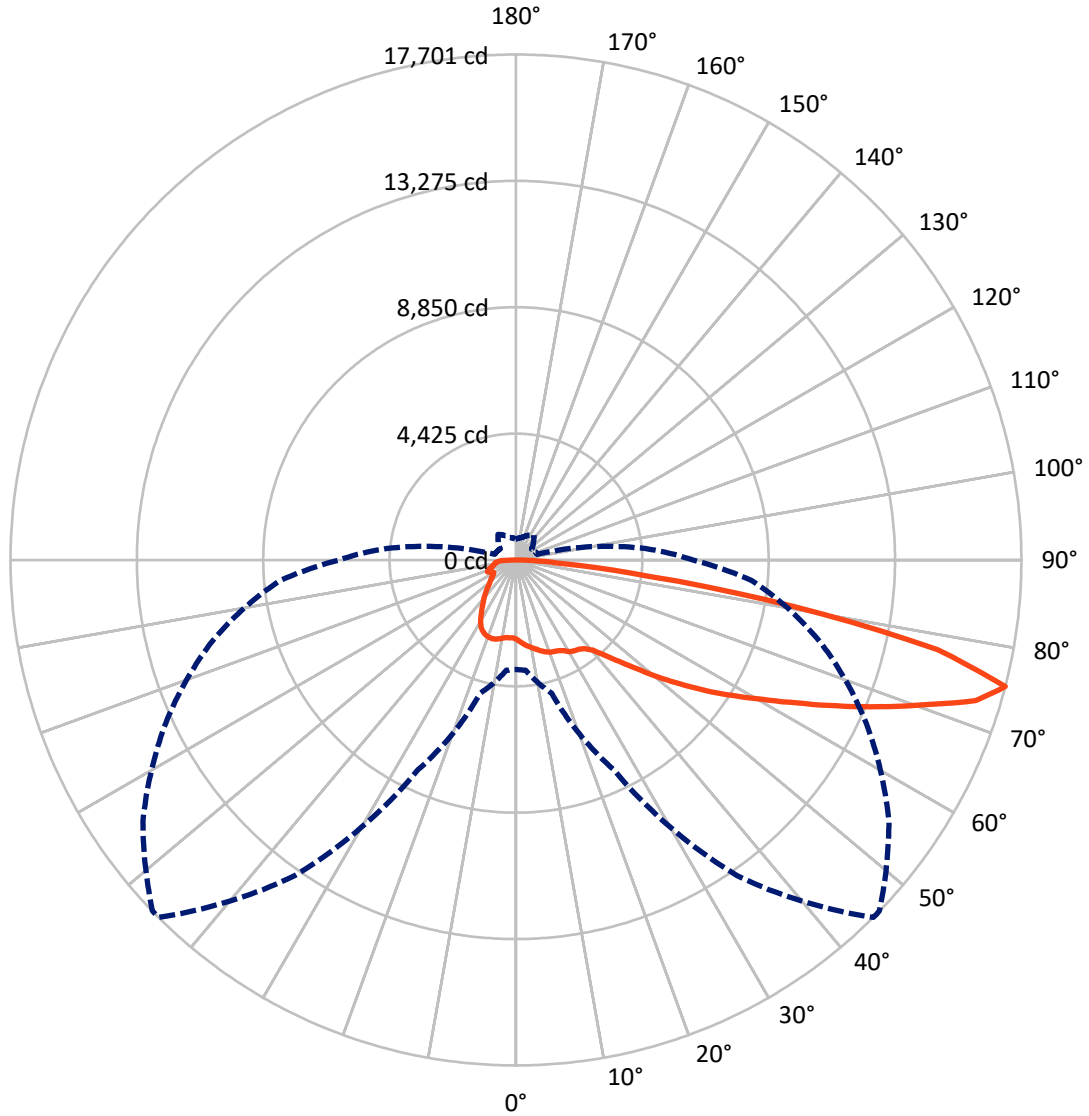
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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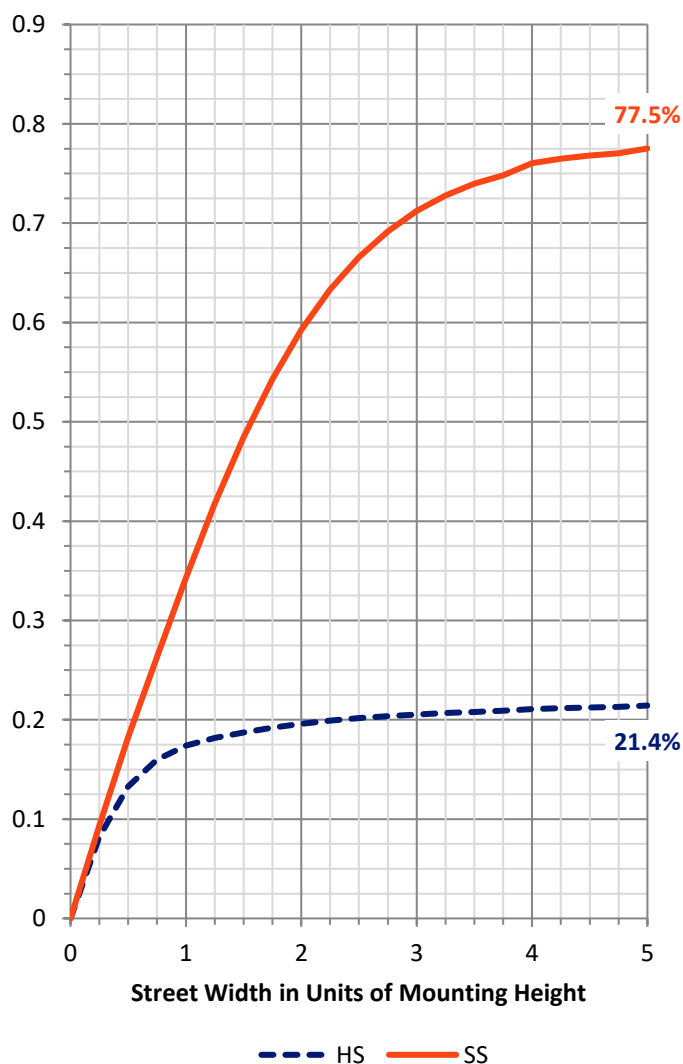
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5840.0	0.0	5840.0
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	20586.0	0.0	20586.0
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	26426.0	0.0	26426.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.6	1.0
10°-20°	873.5	3.3
20°-30°	1489.1	5.6
30°-40°	2086.5	7.9
40°-50°	3065.3	11.6
50°-60°	4878.5	18.5
60°-70°	6939.6	26.3
70°-80°	5810.5	22.0
80°-90°	1008.4	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°	26426.0	100.0
0°-180°	26426.0	100.0

**Coefficient of Utilization**

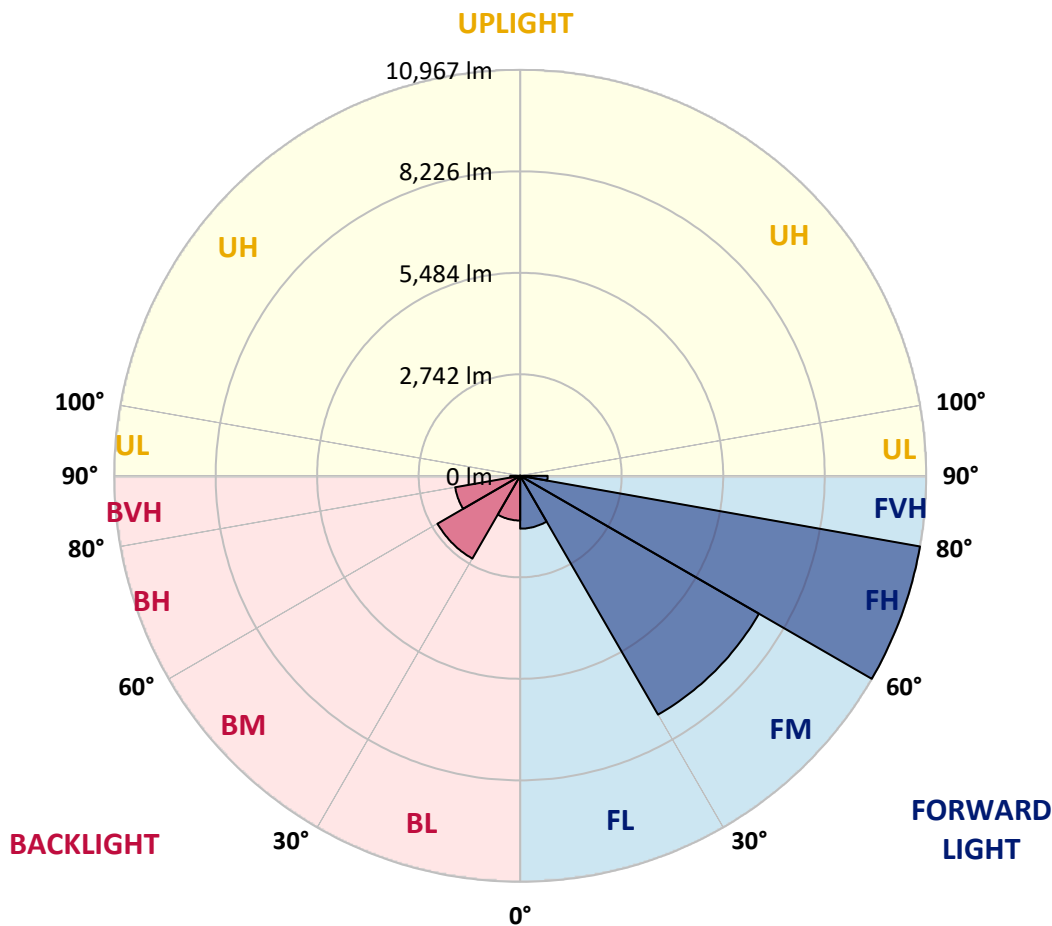


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1428.5	5.4			
FM (30°-60°)	7448.7	28.2			
FH (60°-80°)	10967.4	41.5			G4/12000
FVH (80°-90°)	741.4	2.8			G4/750
BL (0°-30°)	1208.7	4.6	B3/2500		
BM (30°-60°)	2581.6	9.8	B3/5000		
BH (60°-80°)	1782.7	6.7	B3/2500		G3/2500
BVH (80°-90°)	267.1	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°	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3
2.5°	2934.2	2920.1	2913.0	2913.0	2884.8	2867.1	2863.6	2838.9	2817.7	2796.5	2778.8
5°	3103.7	3093.1	3071.9	3054.3	3015.4	2966.0	2958.9	2906.0	2853.0	2803.6	2761.2
7.5°	3259.0	3237.9	3213.1	3177.8	3114.3	3047.2	3036.6	2962.4	2888.3	2814.1	2757.7
10°	3389.7	3368.5	3333.2	3283.8	3202.6	3121.3	3110.7	3033.1	2955.4	2867.1	2785.9
12.5°	3513.3	3495.6	3442.7	3375.6	3280.2	3206.1	3195.5	3128.4	3047.2	2948.3	2842.4
15°	3619.2	3601.5	3545.1	3467.4	3357.9	3301.4	3287.3	3223.7	3142.5	3036.6	2927.1
17.5°	3672.2	3672.2	3612.1	3527.4	3425.0	3382.6	3372.0	3294.4	3220.2	3117.8	3008.3
20°	3689.8	3696.9	3654.5	3552.1	3463.8	3446.2	3435.6	3372.0	3287.3	3188.4	3086.0
22.5°	3700.4	3714.5	3679.2	3562.7	3488.6	3478.0	3470.9	3428.5	3361.4	3266.1	3163.7
25°	3735.7	3735.7	3711.0	3580.4	3520.3	3516.8	3516.8	3492.1	3446.2	3365.0	3262.6
27.5°	3788.7	3785.2	3753.4	3619.2	3591.0	3601.5	3598.0	3594.5	3562.7	3481.5	3372.0
30°	3877.0	3877.0	3841.6	3696.9	3679.2	3725.1	3728.7	3735.7	3686.3	3559.2	3470.9
32.5°	4011.1	3997.0	3961.7	3774.6	3746.3	3788.7	3795.7	3792.2	3749.8	3629.8	3587.4
35°	4424.3	4392.5	4265.4	3947.6	3806.3	3831.1	3834.6	3852.2	3859.3	3764.0	3742.8
37.5°	5148.1	5105.7	4911.5	4357.2	3997.0	3937.0	3933.5	3979.4	4018.2	3933.5	3933.5
40°	5935.5	5900.2	5787.2	5063.3	4350.1	4152.4	4138.2	4180.6	4230.0	4170.0	4187.7
42.5°	6613.4	6641.7	6652.3	5811.9	4879.7	4554.9	4516.1	4456.0	4533.7	4480.7	4551.4
45°	7121.9	7107.8	7302.0	6578.1	5564.7	5059.8	5006.9	4844.4	4943.3	4939.8	5095.1
47.5°	7662.1	7637.4	7718.6	7298.4	6345.1	5677.7	5596.5	5356.4	5504.7	5607.1	5864.9
50°	8174.1	8181.2	8209.4	7866.9	7192.5	6429.8	6327.4	6006.1	6218.0	6433.3	6797.0
52.5°	8841.4	8792.0	8756.7	8530.7	8142.3	7213.7	7146.6	6779.4	7076.0	7330.2	7813.9
55°	9424.0	9392.3	9371.1	9360.5	8936.8	8078.8	8008.1	7626.8	8054.0	8234.1	8947.4
57.5°	10045.5	10027.8	10140.8	10320.9	10151.4	8958.0	8883.8	8516.6	8993.3	9120.4	10176.1
60°	10501.0	10511.6	10822.3	11281.3	11164.8	9911.3	9823.0	9498.2	9907.8	10020.8	11404.9
62.5°	10504.5	10610.4	11330.7	12153.4	12287.6	11009.4	10907.0	10553.9	10847.0	10847.0	12506.5
65°	9501.7	9621.8	11238.9	12368.8	13424.6	12315.9	12217.0	11662.7	11772.1	11623.8	13541.1
67.5°	8502.5	8643.7	10165.5	12386.5	14222.6	13714.1	13597.6	12771.4	12584.2	12209.9	14264.9
70°	7838.7	7937.5	9208.7	12157.0	14702.8	15175.9	15087.6	13823.6	13223.3	12700.7	14113.1
72.5°	6599.3	6564.0	7778.6	11065.9	14971.1	16835.5	16761.3	14967.6	13777.7	12467.7	12036.9
75°	3831.1	3873.4	4826.8	8107.0	13495.2	17700.5	17693.5	15945.7	13534.0	11013.0	8294.1
77.5°	1105.2	1137.0	1585.4	3562.7	8534.2	15098.2	15582.0	14582.7	11440.2	7849.2	4300.7
80°	483.7	508.5	688.5	1186.4	3675.7	9861.9	10285.6	9861.9	6899.4	3601.5	1687.8
82.5°	286.0	303.7	448.4	734.4	1761.9	4692.6	5264.6	4597.3	2976.6	1528.9	699.1
85°	162.4	169.5	257.8	466.1	1108.7	1641.9	1843.1	1726.6	1451.2	868.6	367.2
87.5°	74.1	77.7	127.1	218.9	621.4	554.4	575.5	762.7	840.4	529.6	183.6
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°	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3	2775.3
2.5°	2771.8	2761.2	2740.0	2732.9	2722.3	2725.9	2729.4	2729.4	2732.9	2722.3	2722.3
5°	2743.5	2725.9	2704.7	2704.7	2704.7	2732.9	2757.7	2771.8	2778.8	2778.8	2771.8
7.5°	2732.9	2711.8	2687.0	2694.1	2701.2	2736.5	2782.4	2828.3	2842.4	2842.4	2835.3
10°	2754.1	2732.9	2715.3	2725.9	2743.5	2771.8	2807.1	2849.5	2884.8	2888.3	2884.8
12.5°	2803.6	2778.8	2761.2	2782.4	2803.6	2821.2	2838.9	2856.5	2902.4	2909.5	2909.5
15°	2884.8	2860.1	2838.9	2856.5	2863.6	2863.6	2863.6	2863.6	2909.5	2916.5	2916.5
17.5°	2966.0	2944.8	2923.6	2927.1	2906.0	2877.7	2867.1	2863.6	2888.3	2909.5	2913.0
20°	3043.7	3026.0	3004.8	2969.5	2916.5	2863.6	2845.9	2845.9	2860.1	2891.8	2891.8
22.5°	3128.4	3107.2	3071.9	2990.7	2902.4	2828.3	2810.6	2821.2	2838.9	2881.2	2877.7
25°	3223.7	3195.5	3135.5	2983.6	2856.5	2768.2	2771.8	2803.6	2835.3	2881.2	2881.2
27.5°	3329.7	3290.8	3170.8	2927.1	2754.1	2669.4	2701.2	2775.3	2821.2	2870.6	2877.7
30°	3446.2	3410.9	3199.0	2828.3	2588.2	2510.5	2588.2	2708.2	2778.8	2824.7	2835.3
32.5°	3587.4	3559.2	3223.7	2701.2	2372.8	2305.7	2418.7	2567.0	2680.0	2732.9	2743.5
35°	3764.0	3735.7	3255.5	2556.4	2171.5	2100.9	2203.3	2355.1	2503.4	2570.5	2591.7
37.5°	3993.5	3951.1	3283.8	2401.0	2002.0	1920.8	1970.3	2108.0	2242.1	2333.9	2358.7
40°	4286.5	4219.5	3308.5	2224.5	1853.7	1761.9	1779.6	1846.7	1924.4	2005.6	2037.3
42.5°	4699.7	4565.5	3312.0	2037.3	1701.9	1617.2	1610.1	1631.3	1631.3	1631.3	1641.9
45°	5275.2	5021.0	3319.1	1860.8	1546.5	1458.3	1437.1	1430.0	1377.1	1274.7	1267.6
47.5°	6002.6	5617.7	3350.8	1712.5	1384.1	1306.4	1278.2	1249.9	1151.1	1045.2	1024.0
50°	6934.7	6309.8	3414.4	1571.3	1246.4	1193.5	1158.1	1091.1	981.6	900.4	879.2
52.5°	8008.1	7132.5	3474.4	1423.0	1144.0	1108.7	1066.3	985.1	868.6	819.2	812.1
55°	9240.4	8050.5	3594.5	1292.3	1055.7	1031.0	992.2	914.5	826.2	790.9	787.4
57.5°	10501.0	9078.0	3764.0	1175.8	971.0	956.9	956.9	889.8	833.3	819.2	819.2
60°	11715.6	9960.7	3633.3	1066.3	893.3	900.4	967.5	949.8	907.4	925.1	935.7
62.5°	12658.4	10479.8	2948.3	978.1	836.8	900.4	1073.4	1073.4	1024.0	1016.9	1016.9
65°	13060.9	10472.7	2072.7	911.0	815.6	988.7	1197.0	1140.5	1009.8	960.4	949.8
67.5°	12958.5	10013.7	1430.0	865.1	808.6	1080.5	1253.5	1094.6	946.3	903.9	872.1
70°	12058.1	9042.7	1101.6	822.7	798.0	1041.6	1235.8	1041.6	896.9	858.0	829.8
72.5°	9727.7	7252.5	914.5	780.3	755.6	963.9	1175.8	992.2	858.0	815.6	787.4
75°	6203.8	4562.0	773.3	723.8	674.4	865.1	1094.6	942.8	815.6	759.1	738.0
77.5°	2983.6	1966.7	674.4	656.8	607.3	801.5	1013.4	879.2	759.1	713.2	699.1
80°	1207.6	900.4	586.1	589.7	557.9	762.7	956.9	819.2	702.7	653.2	628.5
82.5°	628.5	522.6	494.3	508.5	508.5	727.4	914.5	769.7	653.2	632.0	550.8
85°	339.0	324.8	381.3	409.6	441.4	656.8	851.0	716.8	596.7	512.0	494.3
87.5°	166.0	211.9	215.4	247.2	307.2	526.1	716.8	600.3	497.9	413.1	406.1
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)