

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: P400324

Luminaire Tested: **ARCH-L-PA3-260-827-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400324  
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-PA3-260-827-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25148 lumens  
Efficiency: N/A  
Efficacy: 96.4 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

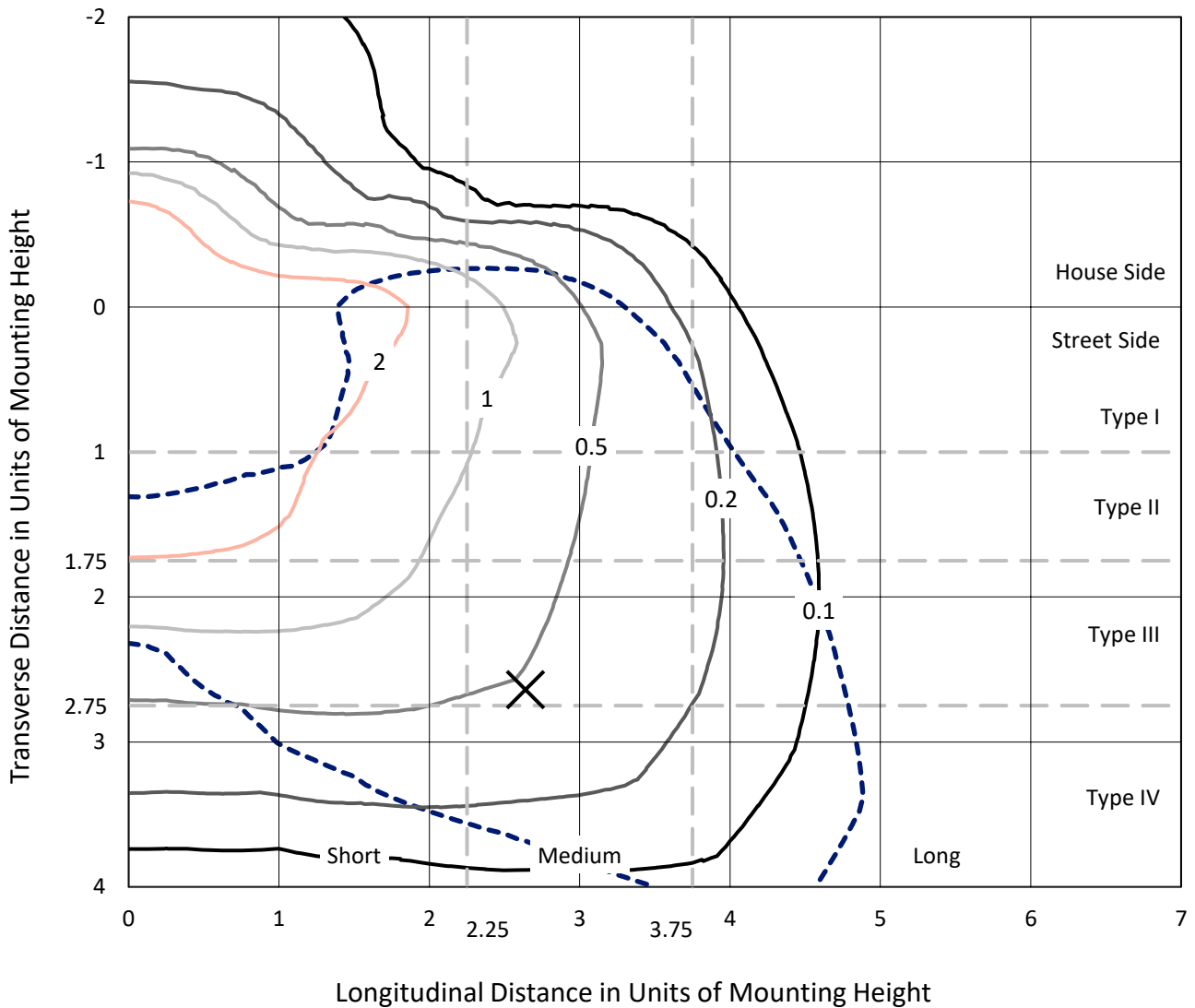
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

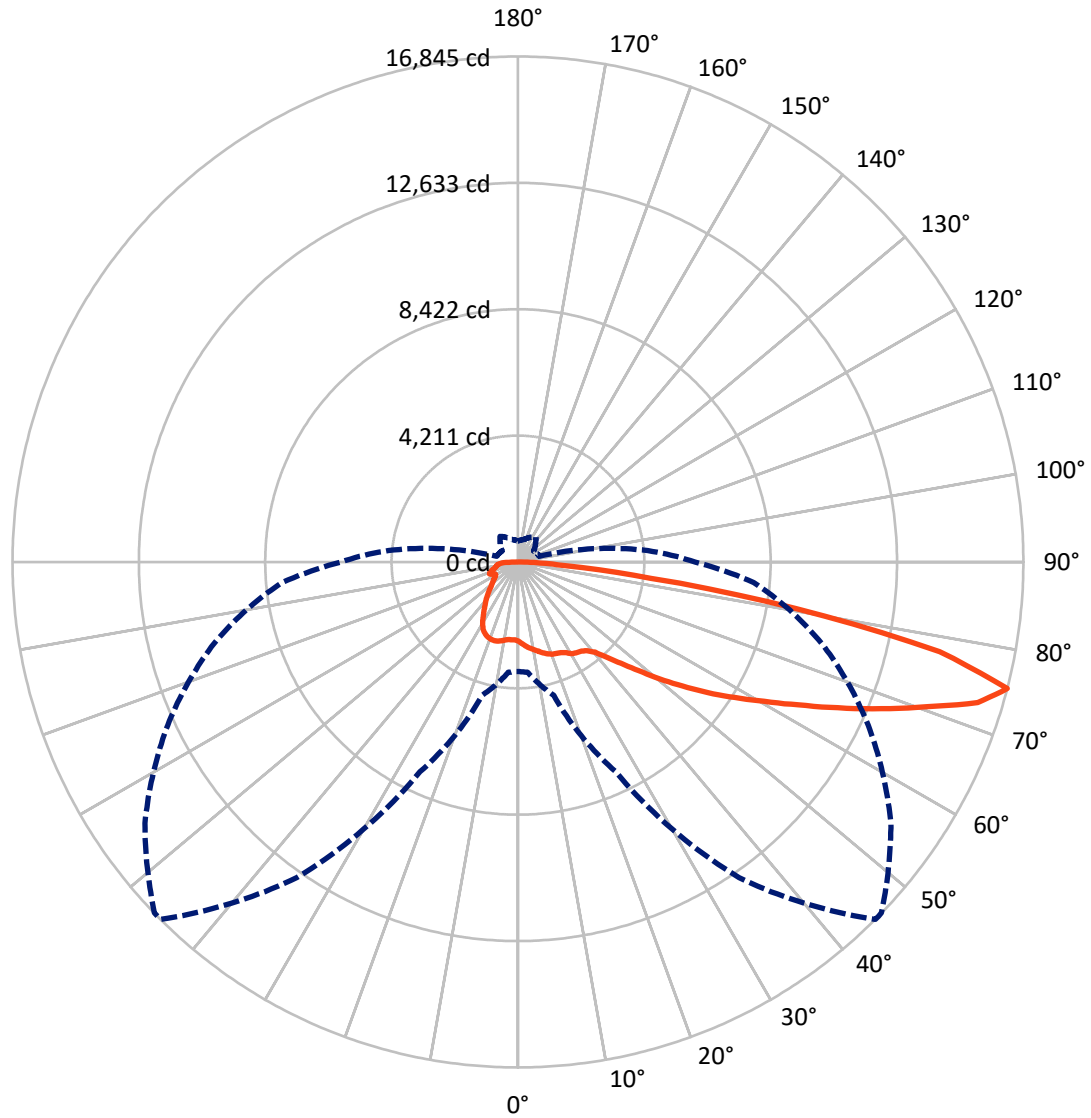
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P400324  
CATALOG NUMBER: ARCH-L-PA3-260-827-U-T4W

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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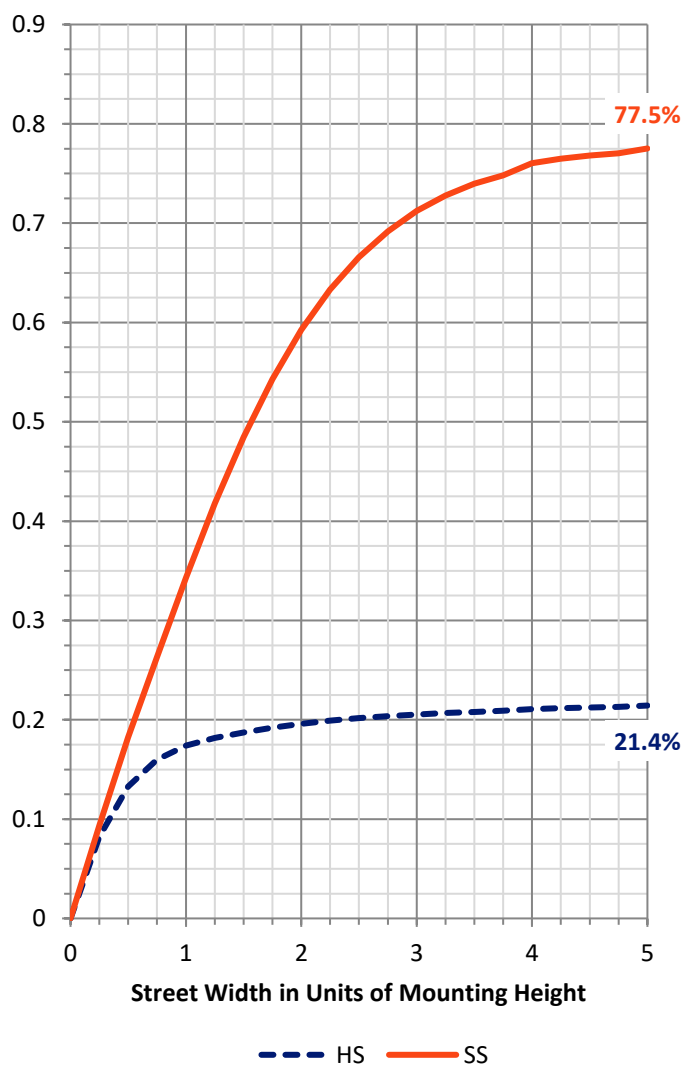
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5557.6	0.0	5557.6
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	19590.4	0.0	19590.4
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	25148.0	0.0	25148.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.3	1.0
10°-20°	831.2	3.3
20°-30°	1417.1	5.6
30°-40°	1985.6	7.9
40°-50°	2917.1	11.6
50°-60°	4642.5	18.5
60°-70°	6604.0	26.3
70°-80°	5529.5	22.0
80°-90°	959.6	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°	25148.0	100.0
0°-180°	25148.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P400324

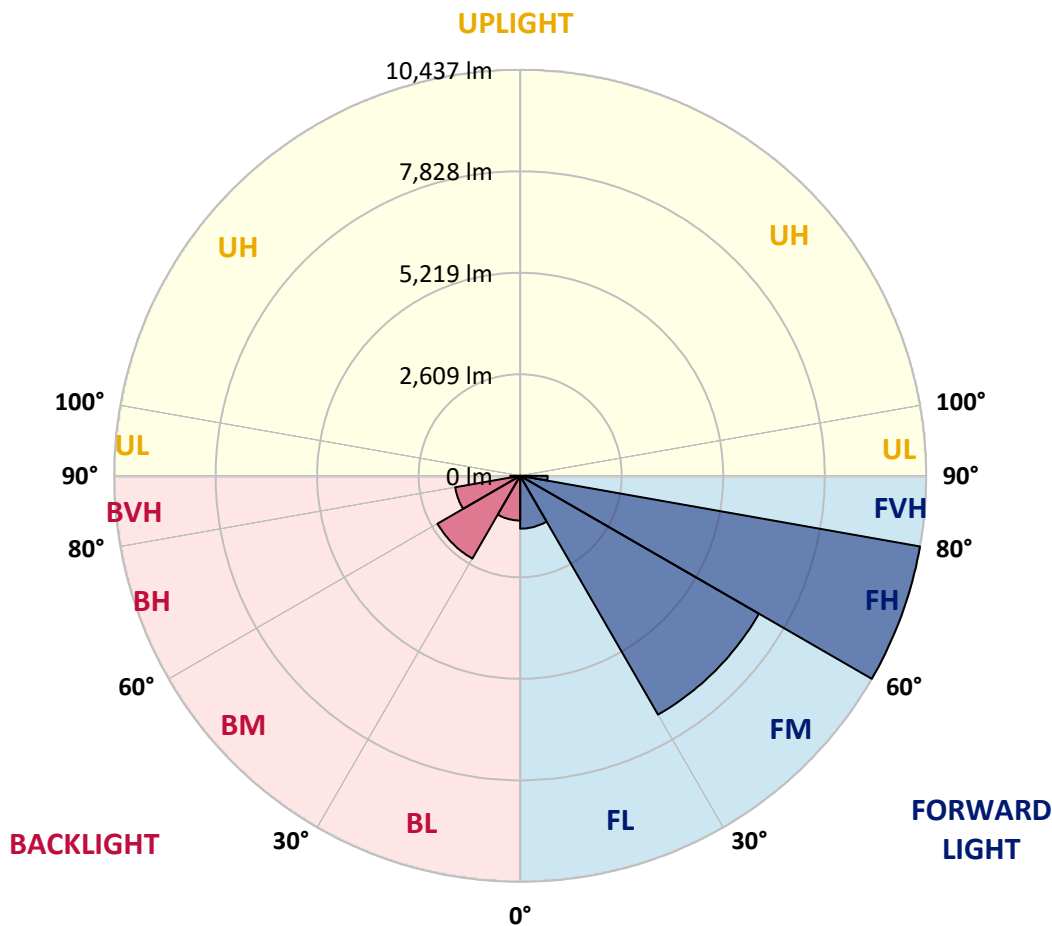
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1359.4	5.4			
FM (30°-60°)	7088.5	28.2			
FH (60°-80°)	10437.0	41.5			G4/12000
FVH (80°-90°)	705.5	2.8			G4/750
BL (0°-30°)	1150.2	4.6	B3/2500		
BM (30°-60°)	2456.7	9.8	B2/2500		
BH (60°-80°)	1696.5	6.7	B3/2500		G3/2500
BVH (80°-90°)	254.1	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°	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1
2.5°	2792.3	2778.9	2772.1	2772.1	2745.3	2728.5	2725.1	2701.6	2681.4	2661.3	2644.5
5°	2953.6	2943.5	2923.3	2906.5	2869.6	2822.5	2815.8	2765.4	2715.0	2668.0	2627.6
7.5°	3101.4	3081.3	3057.8	3024.1	2963.7	2899.8	2889.7	2819.2	2748.6	2678.1	2624.3
10°	3225.8	3205.6	3172.0	3125.0	3047.7	2970.4	2960.3	2886.4	2812.5	2728.5	2651.2
12.5°	3343.4	3326.6	3276.2	3212.3	3121.6	3051.0	3041.0	2977.1	2899.8	2805.7	2704.9
15°	3444.2	3427.4	3373.6	3299.7	3195.5	3141.8	3128.3	3067.8	2990.5	2889.7	2785.6
17.5°	3494.6	3494.6	3437.4	3356.8	3259.4	3219.0	3209.0	3135.0	3064.5	2967.0	2862.9
20°	3511.4	3518.1	3477.8	3380.3	3296.3	3279.5	3269.4	3209.0	3128.3	3034.2	2936.8
22.5°	3521.5	3534.9	3501.3	3390.4	3319.8	3309.8	3303.0	3262.7	3198.9	3108.2	3010.7
25°	3555.1	3555.1	3531.5	3407.2	3350.1	3346.7	3346.7	3323.2	3279.5	3202.2	3104.8
27.5°	3605.5	3602.1	3571.9	3444.2	3417.3	3427.4	3424.0	3420.6	3390.4	3313.1	3209.0
30°	3689.5	3689.5	3655.9	3518.1	3501.3	3545.0	3548.3	3555.1	3508.0	3387.0	3303.0
32.5°	3817.1	3803.7	3770.1	3592.0	3565.1	3605.5	3612.2	3608.8	3568.5	3454.3	3413.9
35°	4210.3	4180.0	4059.1	3756.7	3622.3	3645.8	3649.1	3665.9	3672.7	3581.9	3561.8
37.5°	4899.1	4858.8	4674.0	4146.4	3803.7	3746.6	3743.2	3786.9	3823.9	3743.2	3743.2
40°	5648.4	5614.8	5507.3	4818.5	4139.7	3951.6	3938.1	3978.4	4025.5	3968.4	3985.2
42.5°	6293.6	6320.5	6330.6	5530.8	4643.7	4334.6	4297.7	4240.5	4314.5	4264.1	4331.3
45°	6777.5	6764.0	6948.8	6260.0	5295.6	4815.1	4764.7	4610.1	4704.2	4700.9	4848.7
47.5°	7291.6	7268.0	7345.3	6945.5	6038.2	5403.1	5325.9	5097.4	5238.5	5335.9	5581.2
50°	7778.8	7785.5	7812.4	7486.4	6844.7	6118.9	6021.4	5715.6	5917.3	6122.2	6468.3
52.5°	8413.9	8366.8	8333.2	8118.2	7748.5	6864.8	6801.0	6451.5	6733.8	6975.7	7436.0
55°	8968.3	8938.0	8917.9	8907.8	8504.6	7688.1	7620.9	7258.0	7664.5	7835.9	8514.7
57.5°	9559.7	9542.9	9650.4	9821.8	9660.5	8524.7	8454.2	8104.7	8558.3	8679.3	9684.0
60°	9993.1	10003.2	10298.9	10735.7	10624.8	9432.0	9348.0	9038.8	9428.6	9536.2	10853.3
62.5°	9996.5	10097.3	10782.8	11565.7	11693.4	10477.0	10379.6	10043.5	10322.4	10322.4	11901.7
65°	9042.2	9156.5	10695.4	11770.7	12775.4	11720.3	11626.2	11098.6	11202.8	11061.7	12886.2
67.5°	8091.3	8225.7	9673.9	11787.5	13534.7	13050.9	12940.0	12153.7	11975.6	11619.5	13575.1
70°	7459.6	7553.7	8763.3	11569.1	13991.7	14442.0	14358.0	13155.0	12583.8	12086.5	13430.6
72.5°	6280.1	6246.5	7402.4	10530.8	14247.1	16021.3	15950.7	14243.7	13111.4	11864.7	11454.8
75°	3645.8	3686.1	4593.3	7714.9	12842.6	16844.5	16837.8	15174.5	12879.5	10480.4	7893.0
77.5°	1051.7	1082.0	1508.7	3390.4	8121.5	14368.1	14828.4	13877.5	10886.9	7469.6	4092.7
80°	460.3	483.9	655.2	1129.0	3497.9	9384.9	9788.2	9384.9	6565.8	3427.4	1606.2
82.5°	272.2	289.0	426.7	698.9	1676.7	4465.7	5010.0	4374.9	2832.6	1455.0	665.3
85°	154.6	161.3	245.3	443.5	1055.1	1562.5	1754.0	1643.1	1381.0	826.6	349.5
87.5°	70.6	73.9	121.0	208.3	591.4	527.5	547.7	725.8	799.7	504.0	174.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P400324

CATALOG NUMBER: ARCH-L-PA3-260-827-U-T4W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1	2641.1
2.5°	2637.7	2627.6	2607.5	2600.8	2590.7	2594.0	2597.4	2597.4	2600.8	2590.7	2590.7
5°	2610.8	2594.0	2573.9	2573.9	2573.9	2600.8	2624.3	2637.7	2644.5	2644.5	2637.7
7.5°	2600.8	2580.6	2557.1	2563.8	2570.5	2604.1	2647.8	2691.5	2704.9	2704.9	2698.2
10°	2620.9	2600.8	2584.0	2594.0	2610.8	2637.7	2671.3	2711.7	2745.3	2748.6	2745.3
12.5°	2668.0	2644.5	2627.6	2647.8	2668.0	2684.8	2701.6	2718.4	2762.1	2768.8	2768.8
15°	2745.3	2721.7	2701.6	2718.4	2725.1	2725.1	2725.1	2725.1	2768.8	2775.5	2775.5
17.5°	2822.5	2802.4	2782.2	2785.6	2765.4	2738.5	2728.5	2725.1	2748.6	2768.8	2772.1
20°	2896.5	2879.7	2859.5	2825.9	2775.5	2725.1	2708.3	2708.3	2721.7	2752.0	2752.0
22.5°	2977.1	2956.9	2923.3	2846.1	2762.1	2691.5	2674.7	2684.8	2701.6	2741.9	2738.5
25°	3067.8	3041.0	2983.8	2839.3	2718.4	2634.4	2637.7	2668.0	2698.2	2741.9	2741.9
27.5°	3168.6	3131.7	3017.4	2785.6	2620.9	2540.3	2570.5	2641.1	2684.8	2731.8	2738.5
30°	3279.5	3245.9	3044.3	2691.5	2463.0	2389.1	2463.0	2577.2	2644.5	2688.1	2698.2
32.5°	3413.9	3387.0	3067.8	2570.5	2258.0	2194.2	2301.7	2442.8	2550.4	2600.8	2610.8
35°	3581.9	3555.1	3098.1	2432.8	2066.5	1999.3	2096.7	2241.2	2382.4	2446.2	2466.4
37.5°	3800.3	3760.0	3125.0	2284.9	1905.2	1827.9	1875.0	2006.0	2133.7	2221.1	2244.6
40°	4079.2	4015.4	3148.5	2116.9	1764.1	1676.7	1693.5	1757.4	1831.3	1908.6	1938.8
42.5°	4472.4	4344.7	3151.8	1938.8	1619.6	1539.0	1532.2	1552.4	1552.4	1552.4	1562.5
45°	5020.1	4778.2	3158.6	1770.8	1471.8	1387.7	1367.6	1360.9	1310.5	1213.0	1206.3
47.5°	5712.3	5346.0	3188.8	1629.7	1317.2	1243.3	1216.4	1189.5	1095.4	994.6	974.4
50°	6599.4	6004.6	3249.3	1495.3	1186.1	1135.7	1102.1	1038.3	934.1	856.8	836.7
52.5°	7620.9	6787.5	3306.4	1354.1	1088.7	1055.1	1014.8	937.5	826.6	779.6	772.8
55°	8793.6	7661.2	3420.6	1229.8	1004.7	981.2	944.2	870.3	786.3	752.7	749.3
57.5°	9993.1	8639.0	3581.9	1118.9	924.0	910.6	910.6	846.8	793.0	779.6	779.6
60°	11149.0	9479.0	3457.6	1014.8	850.1	856.8	920.7	903.9	863.6	880.4	890.4
62.5°	12046.2	9973.0	2805.7	930.8	796.4	856.8	1021.5	1021.5	974.4	967.7	967.7
65°	12429.3	9966.3	1972.4	866.9	776.2	940.8	1139.1	1085.3	961.0	914.0	903.9
67.5°	12331.8	9529.4	1360.9	823.2	769.5	1028.2	1192.9	1041.7	900.5	860.2	830.0
70°	11475.0	8605.4	1048.4	782.9	759.4	991.2	1176.1	991.2	853.5	816.5	789.6
72.5°	9257.3	6901.8	870.3	742.6	719.1	917.3	1118.9	944.2	816.5	776.2	749.3
75°	5903.8	4341.3	735.9	688.8	641.8	823.2	1041.7	897.2	776.2	722.4	702.3
77.5°	2839.3	1871.6	641.8	625.0	577.9	762.8	964.4	836.7	722.4	678.8	665.3
80°	1149.2	856.8	557.8	561.1	530.9	725.8	910.6	779.6	668.7	621.6	598.1
82.5°	598.1	497.3	470.4	483.9	483.9	692.2	870.3	732.5	621.6	601.5	524.2
85°	322.6	309.1	362.9	389.8	420.0	625.0	809.8	682.1	567.9	487.2	470.4
87.5°	157.9	201.6	205.0	235.2	292.3	500.7	682.1	571.2	473.8	393.1	386.4
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)