

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: P400113

Luminaire Tested: **ARCH-L-PA3-230-830-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400113  
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-PA3-230-830-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 980mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25137 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

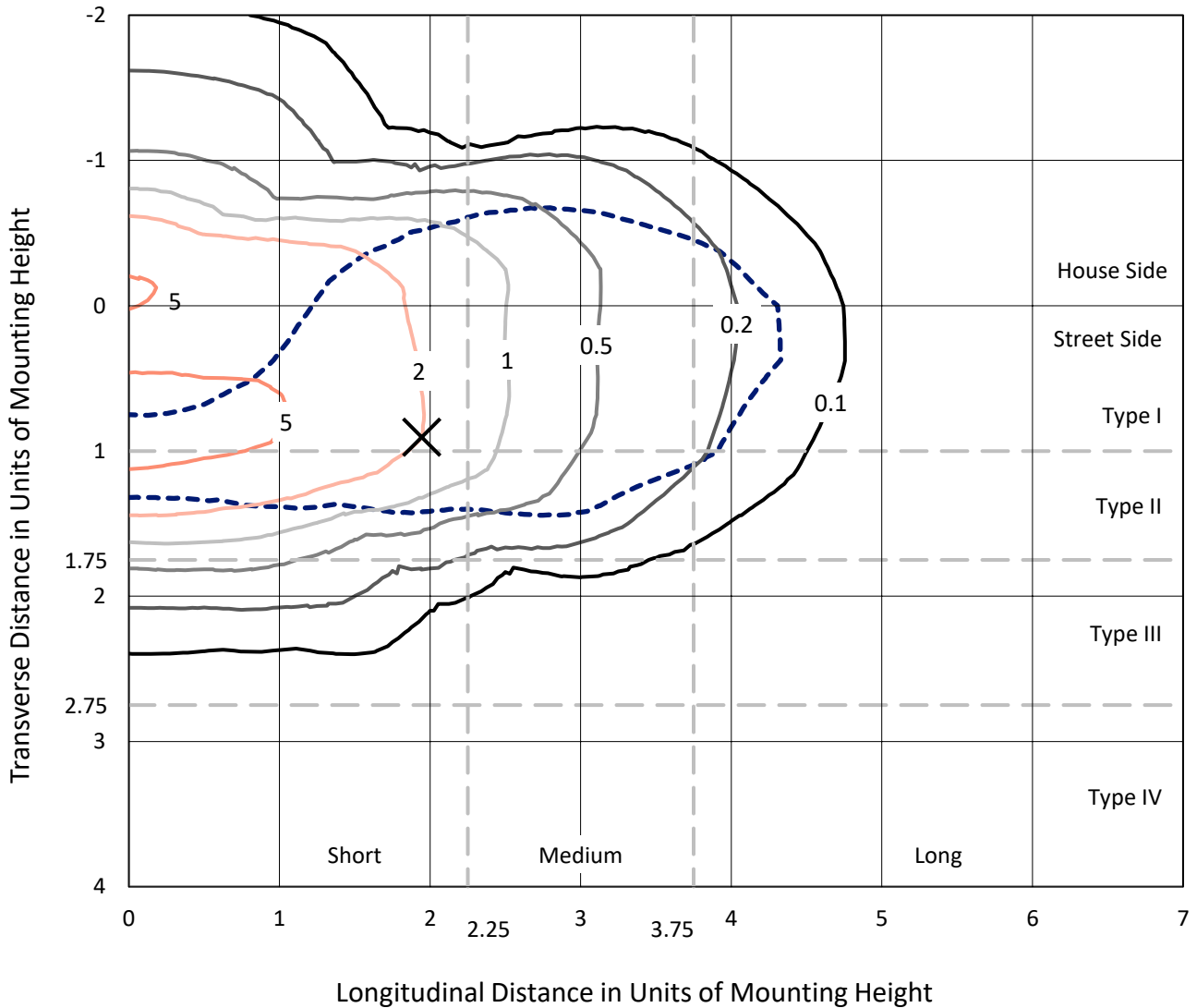
Input Watts (W): 229  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

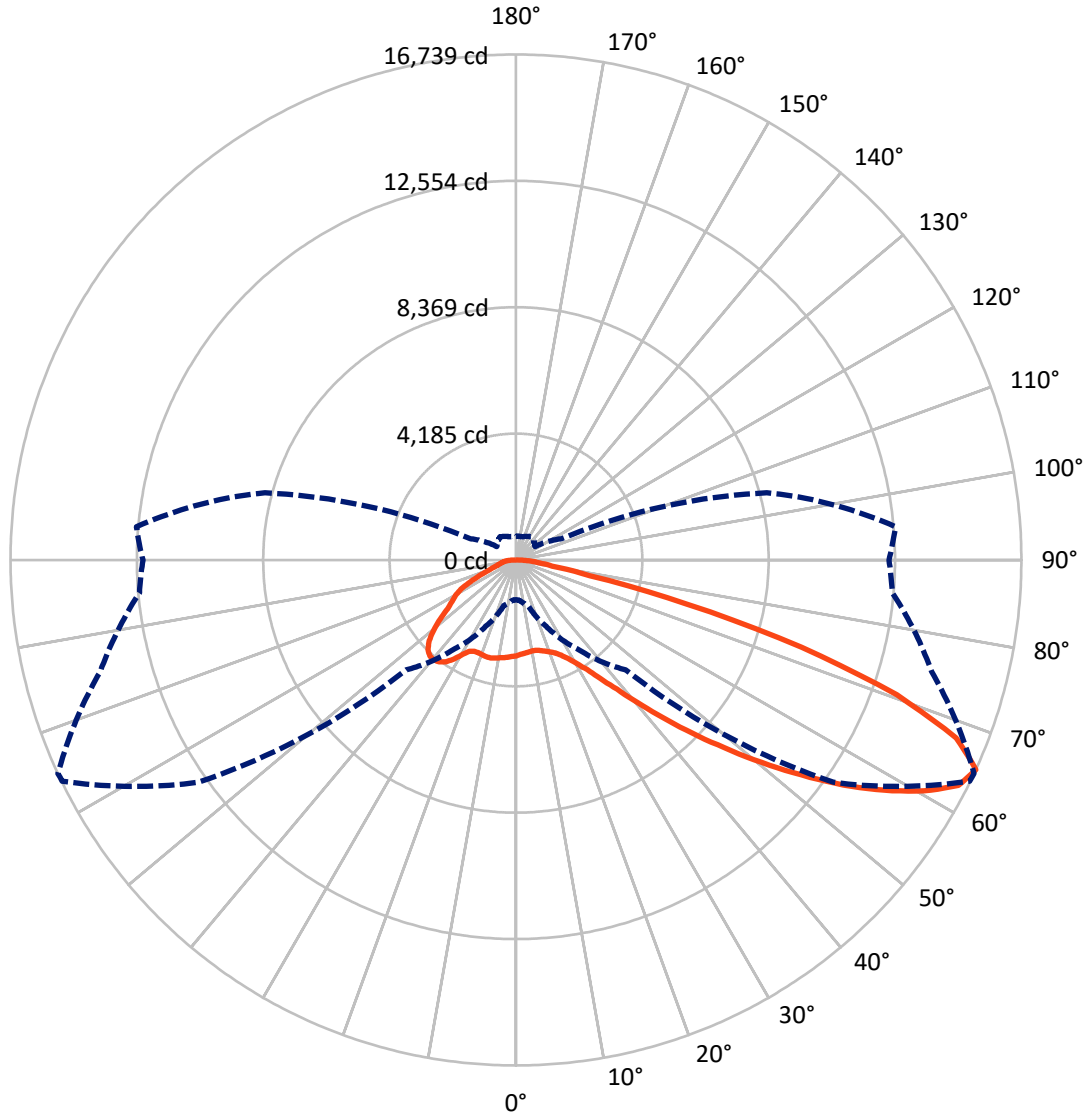
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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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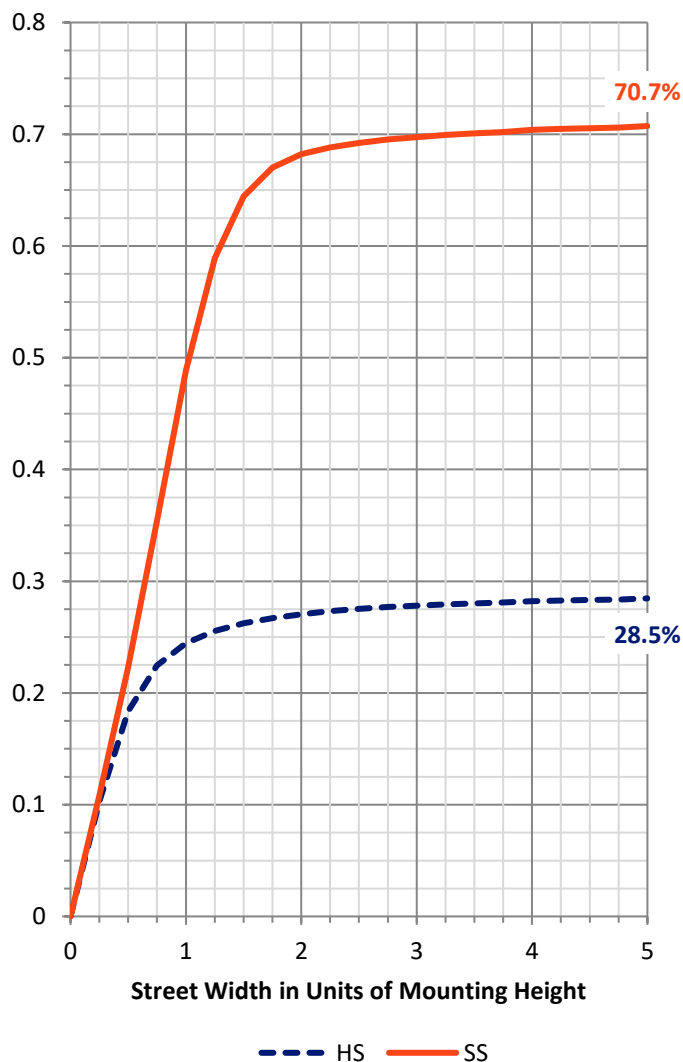
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7267.5	0.0	7267.5
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	17869.5	0.0	17869.5
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	25137.0	0.0	25137.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	302.6	1.2
10°-20°	903.5	3.6
20°-30°	1604.8	6.4
30°-40°	2715.0	10.8
40°-50°	4726.3	18.8
50°-60°	6107.8	24.3
60°-70°	5344.7	21.3
70°-80°	2907.1	11.6
80°-90°	525.3	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°	25137.0	100.0
0°-180°	25137.0	100.0

**Coefficient of Utilization**



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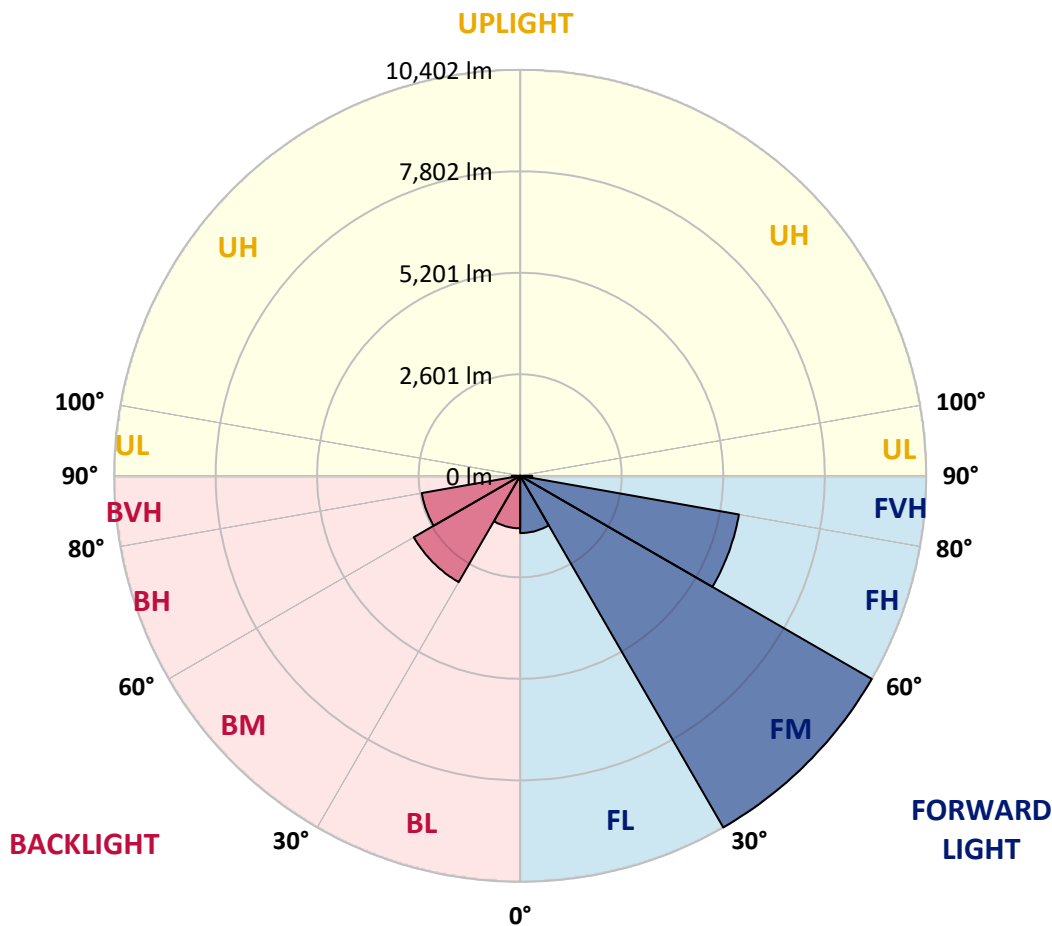
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1466.7	5.8			
FM (30°-60°)	10402.4	41.4			
FH (60°-80°)	5691.4	22.6			G3/7500
FVH (80°-90°)	309.1	1.2			G3/500
BL (0°-30°)	1344.2	5.3	B3/2500		
BM (30°-60°)	3146.7	12.5	B3/5000		
BH (60°-80°)	2560.4	10.2	B4/5000		G4/5000
BVH (80°-90°)	216.2	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3
2.5°	3120.1	3116.7	3110.1	3116.7	3120.1	3126.7	3123.4	3130.0	3126.7	3136.6	3153.1
5°	3040.6	3034.0	3030.7	3047.3	3057.2	3073.7	3080.4	3103.5	3100.2	3116.7	3143.2
7.5°	2951.3	2951.3	2948.0	2967.9	2981.1	3010.9	3034.0	3073.7	3077.0	3106.8	3136.6
10°	2881.8	2885.1	2881.8	2898.4	2918.2	2954.6	2994.3	3050.6	3053.9	3096.9	3126.7
12.5°	2855.4	2855.4	2855.4	2878.5	2905.0	2954.6	3000.9	3060.5	3067.1	3113.4	3139.9
15°	2891.8	2895.1	2888.4	2911.6	2941.4	3000.9	3044.0	3106.8	3113.4	3156.5	3173.0
17.5°	3020.8	3034.0	3017.5	3030.7	3024.1	3070.4	3110.1	3173.0	3176.3	3212.7	3219.3
20°	3275.6	3288.8	3262.3	3245.8	3186.2	3182.9	3199.5	3249.1	3249.1	3272.3	3255.7
22.5°	3669.3	3682.5	3636.2	3573.3	3431.1	3361.6	3325.2	3348.4	3345.0	3355.0	3312.0
25°	4192.1	4188.7	4132.5	4016.7	3788.4	3619.7	3530.3	3493.9	3493.9	3474.1	3421.1
27.5°	4840.6	4790.9	4691.7	4552.7	4235.1	4000.2	3808.3	3715.6	3699.1	3639.5	3540.3
30°	5532.1	5495.7	5353.4	5151.6	4784.3	4483.2	4165.6	3980.3	3970.4	3841.3	3692.5
32.5°	6346.0	6286.4	6127.6	5886.1	5446.0	5022.5	4625.5	4344.3	4327.7	4122.6	3917.4
35°	7391.5	7341.9	7034.2	6792.7	6226.9	5671.0	5201.2	4827.3	4814.1	4562.6	4301.2
37.5°	8645.5	8516.5	8218.7	7765.4	7169.8	6511.4	5915.9	5446.0	5429.5	5151.6	4820.7
40°	9763.8	9648.0	9383.3	8966.4	8327.9	7596.7	6789.3	6220.3	6203.7	5866.2	5449.3
42.5°	10591.0	10511.6	10339.5	10098.0	9641.4	9198.0	7904.4	7156.6	7126.8	6690.1	6170.6
45°	11070.7	11007.9	10908.6	10968.2	10961.6	10878.8	9234.4	8271.6	8175.7	7609.9	6974.6
47.5°	10954.9	10898.7	10938.4	11401.6	12040.2	12519.9	10782.9	9413.1	9284.1	8546.2	7831.6
50°	10117.8	10141.0	10349.5	11236.2	12668.8	13734.2	12500.1	10713.4	10541.4	9489.2	8645.5
52.5°	8592.6	8648.8	9155.0	10395.8	12599.3	14521.7	14051.8	12056.7	11828.4	10409.0	9386.6
55°	6825.7	6968.0	7623.1	8926.7	11692.8	14577.9	15223.1	13406.6	13155.2	11272.6	10031.8
57.5°	5049.0	5260.8	6018.4	7216.2	9955.7	13687.9	15808.7	14697.0	14392.6	12129.5	10713.4
60°	3202.8	3331.8	4205.3	5618.1	7619.8	11510.8	15732.6	15795.5	15530.8	12983.1	11424.8
62.5°	2044.7	2107.6	2547.7	4006.8	5326.9	8523.1	14902.2	16626.0	16447.3	13760.7	12099.7
65°	1313.5	1340.0	1565.0	2464.9	3626.3	5144.9	12834.2	16715.3	16738.5	14247.0	12516.6
67.5°	1068.7	1081.9	1164.6	1522.0	2564.2	2842.1	8940.0	15444.8	15726.0	14121.3	12374.3
70°	972.7	989.3	1075.3	1214.3	1985.2	1962.0	4327.7	12923.6	13383.5	13396.7	11742.4
72.5°	820.5	843.7	959.5	1148.1	1535.2	1548.4	1833.0	9204.7	9882.9	11974.0	10792.8
75°	684.9	698.1	797.4	1012.4	1300.3	1237.4	1287.1	4880.3	5859.6	9601.7	9783.7
77.5°	555.9	569.1	641.9	807.3	1154.7	962.8	1012.4	2021.6	2498.0	6518.0	7997.0
80°	397.0	410.3	493.0	628.6	873.5	866.9	751.1	1115.0	1211.0	3523.7	5194.6
82.5°	284.5	294.5	373.9	450.0	605.5	870.2	565.8	757.7	794.1	1561.7	2094.4
85°	191.9	191.9	258.1	297.8	390.4	549.2	456.6	512.8	536.0	741.1	565.8
87.5°	82.7	82.7	139.0	152.2	205.1	254.8	340.8	258.1	264.7	400.3	231.6
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°	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3	3176.3
2.5°	3163.1	3166.4	3173.0	3192.8	3206.1	3225.9	3235.9	3249.1	3249.1	3242.5	3245.8
5°	3156.5	3166.4	3189.5	3225.9	3249.1	3285.5	3312.0	3331.8	3338.4	3331.8	3335.1
7.5°	3153.1	3169.7	3209.4	3262.3	3295.4	3341.7	3378.1	3401.3	3417.8	3411.2	3414.5
10°	3143.2	3169.7	3219.3	3285.5	3335.1	3381.4	3414.5	3424.5	3434.4	3427.8	3424.5
12.5°	3156.5	3186.2	3239.2	3318.6	3374.8	3411.2	3421.1	3404.6	3381.4	3368.2	3364.9
15°	3182.9	3212.7	3265.6	3348.4	3398.0	3411.2	3388.1	3335.1	3282.2	3252.4	3249.1
17.5°	3219.3	3239.2	3282.2	3355.0	3394.7	3378.1	3331.8	3268.9	3229.2	3206.1	3209.4
20°	3242.5	3242.5	3275.6	3331.8	3364.9	3351.7	3295.4	3225.9	3163.1	3133.3	3123.4
22.5°	3275.6	3259.0	3262.3	3312.0	3358.3	3338.4	3219.3	3096.9	3007.6	2974.5	2971.2
25°	3364.9	3318.6	3288.8	3318.6	3427.8	3265.6	3027.4	2885.1	2802.4	2772.6	2776.0
27.5°	3474.1	3411.2	3348.4	3398.0	3484.0	3100.2	2782.6	2620.4	2570.8	2547.7	2557.6
30°	3583.3	3500.5	3417.8	3596.5	3444.3	2842.1	2468.3	2309.4	2266.4	2249.9	2263.1
32.5°	3785.1	3649.4	3550.2	3861.2	3321.9	2547.7	2127.5	1981.9	1942.2	1922.3	1915.7
35°	4122.6	3950.5	3851.3	4092.8	3149.8	2220.1	1816.4	1713.9	1670.9	1627.9	1621.2
37.5°	4608.9	4400.5	4311.2	4225.1	2908.3	1895.9	1578.2	1508.7	1445.9	1379.7	1376.4
40°	5191.3	4920.0	4853.8	4284.7	2574.1	1591.5	1412.8	1346.6	1267.2	1204.3	1207.7
42.5°	5862.9	5515.5	5373.2	4268.2	2160.5	1429.3	1293.7	1220.9	1151.4	1095.2	1091.9
45°	6580.9	6187.2	5859.6	4152.4	1750.3	1316.8	1220.9	1134.9	1065.4	1002.5	995.9
47.5°	7375.0	6934.9	6309.6	3927.4	1445.9	1237.4	1177.9	1055.5	992.6	952.9	952.9
50°	8175.7	7649.6	6723.2	3586.6	1267.2	1177.9	1115.0	1012.4	962.8	929.7	929.7
52.5°	8860.6	8394.0	7064.0	3179.6	1154.7	1128.2	1072.0	992.6	939.7	909.9	906.6
55°	9525.6	9085.5	7368.4	2776.0	1062.1	1062.1	1062.1	976.1	916.5	890.0	886.7
57.5°	10187.3	9813.4	7686.0	2511.3	979.4	1005.8	1042.2	956.2	896.6	873.5	870.2
60°	10935.1	10686.9	8053.2	2326.0	906.6	946.3	1015.8	933.0	863.6	843.7	840.4
62.5°	11729.2	11729.2	8387.4	2064.6	840.4	896.6	976.1	903.3	833.8	817.2	813.9
65°	12351.2	12619.2	8602.5	1674.2	774.2	847.0	929.7	863.6	794.1	790.8	784.1
67.5°	12424.0	12844.2	8466.8	1263.9	714.7	794.1	883.4	820.5	754.4	754.4	744.4
70°	11901.2	12328.0	8043.3	946.3	671.7	741.1	823.9	767.6	704.7	711.4	694.8
72.5°	11027.7	11133.6	6991.2	747.8	622.0	684.9	751.1	708.1	651.8	651.8	628.6
75°	9876.3	9287.4	5078.8	625.3	562.5	618.7	678.3	641.9	592.2	575.7	562.5
77.5°	7861.3	6729.8	2951.3	539.3	512.8	555.9	595.6	569.1	526.1	489.7	489.7
80°	4790.9	3943.9	1303.6	466.5	453.3	486.4	512.8	483.1	446.7	410.3	400.3
82.5°	1823.1	1522.0	632.0	400.3	397.0	416.9	436.7	407.0	380.5	364.0	314.3
85°	499.6	459.9	433.4	334.2	327.6	324.2	347.4	334.2	297.8	244.8	218.4
87.5°	188.6	215.1	234.9	205.1	218.4	201.8	231.6	211.8	188.6	122.4	109.2
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)