

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: P400392

Luminaire Tested: **ARCH-L-PA3-270-827-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400392  
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-PA3-270-827-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25866 lumens  
Efficiency: N/A  
Efficacy: 94.7 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

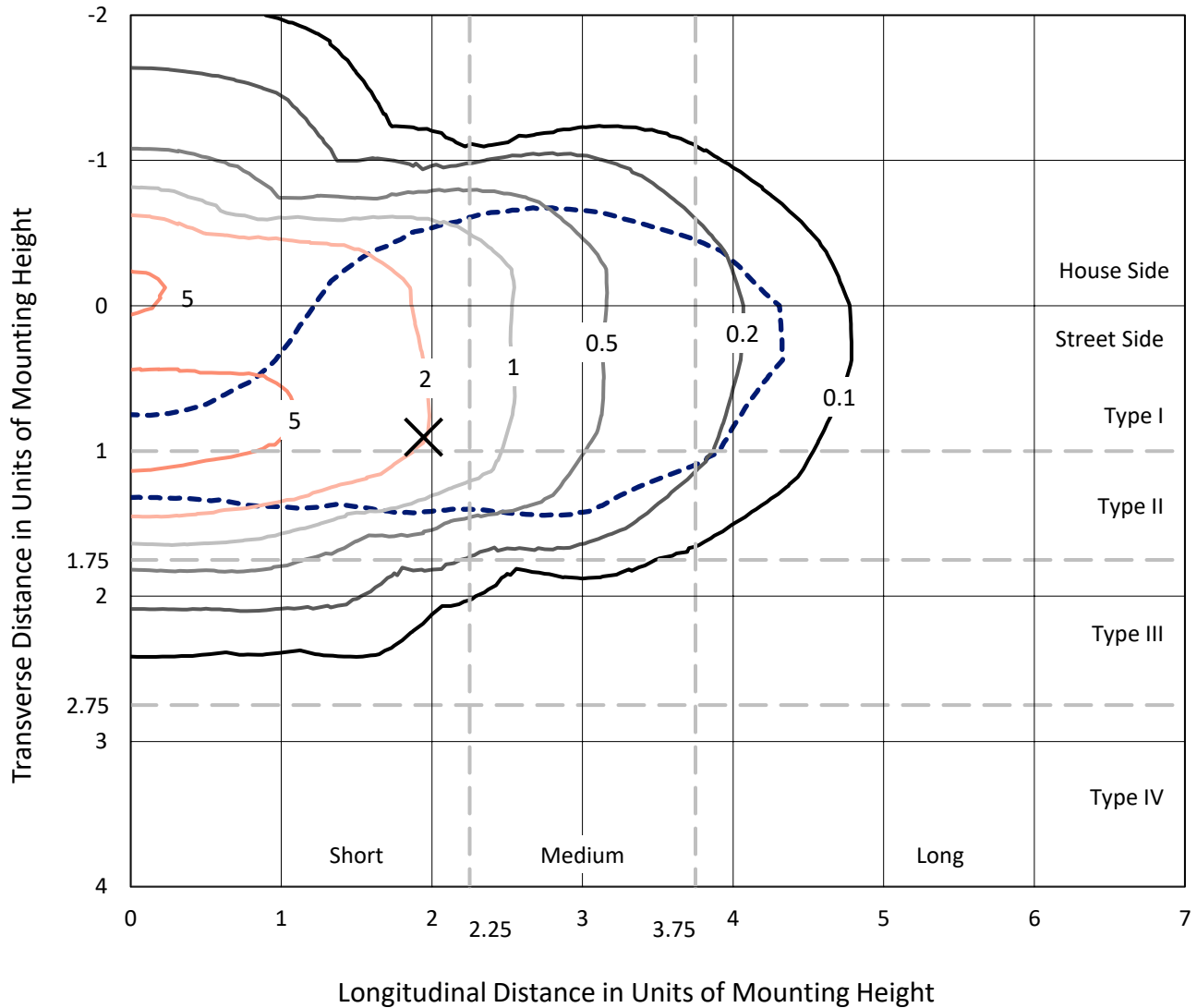
Input Watts (W): 273  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

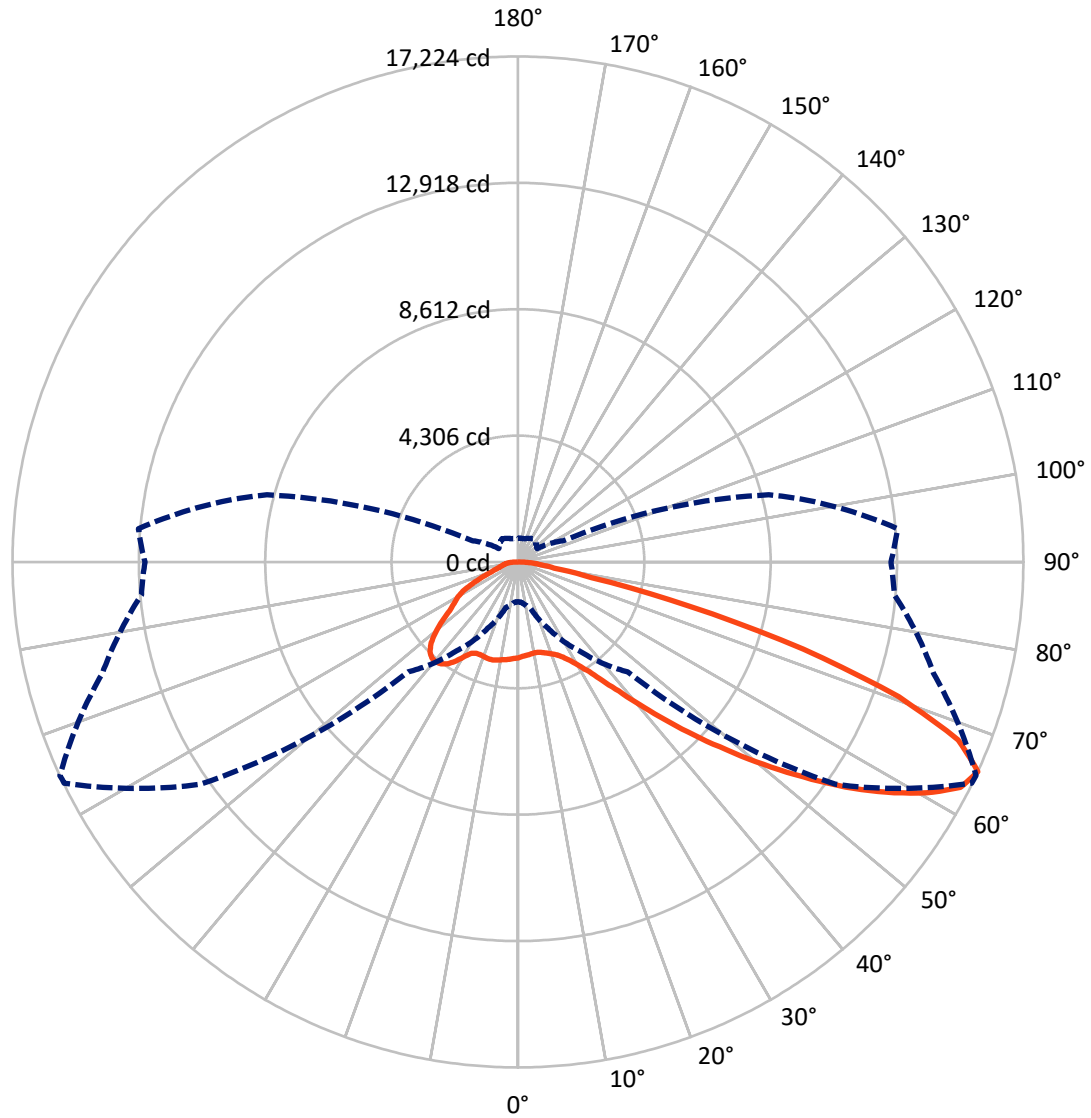
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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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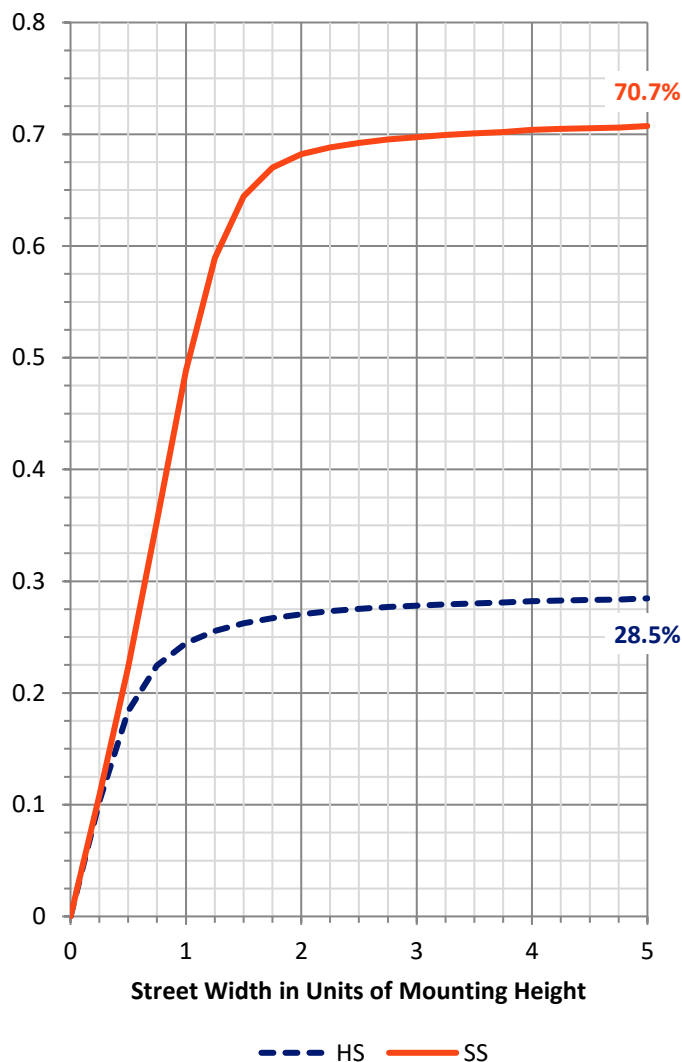
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7478.2	0.0	7478.2
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	18387.8	0.0	18387.8
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	25866.0	0.0	25866.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.4	1.2
10°-20°	929.7	3.6
20°-30°	1651.4	6.4
30°-40°	2793.7	10.8
40°-50°	4863.3	18.8
50°-60°	6284.9	24.3
60°-70°	5499.7	21.3
70°-80°	2991.4	11.6
80°-90°	540.5	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°	25866.0	100.0
0°-180°	25866.0	100.0

**Coefficient of Utilization**

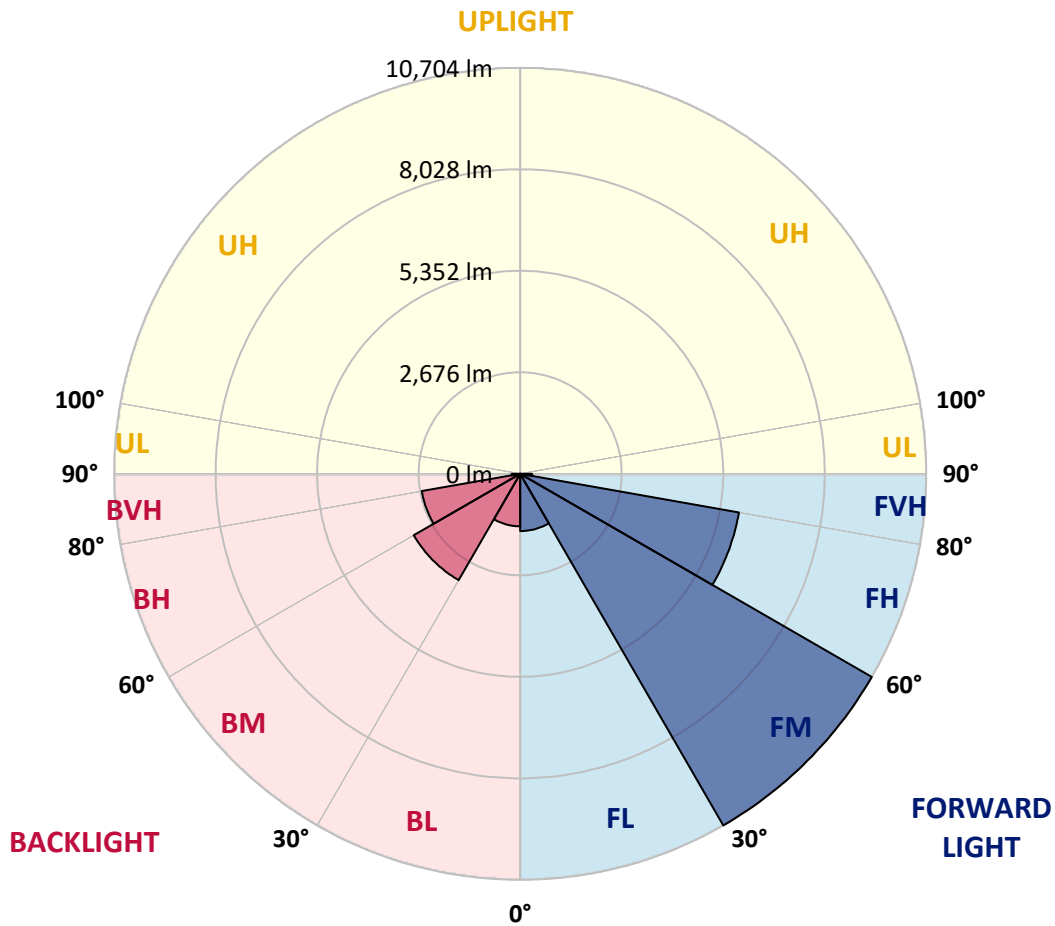


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1509.2	5.8			
FM (30°-60°)	10704.1	41.4			
FH (60°-80°)	5856.4	22.6			G3/7500
FVH (80°-90°)	318.1	1.2			G3/500
BL (0°-30°)	1383.2	5.3	B3/2500		
BM (30°-60°)	3237.9	12.5	B3/5000		
BH (60°-80°)	2634.7	10.2	B4/5000		G4/5000
BVH (80°-90°)	222.4	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°	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4
2.5°	3210.5	3207.1	3200.3	3207.1	3210.5	3217.3	3213.9	3220.8	3217.3	3227.6	3244.6
5°	3128.8	3122.0	3118.6	3135.6	3145.9	3162.9	3169.7	3193.5	3190.1	3207.1	3234.4
7.5°	3036.9	3036.9	3033.5	3053.9	3067.5	3098.2	3122.0	3162.9	3166.3	3196.9	3227.6
10°	2965.4	2968.8	2965.4	2982.4	3002.9	3040.3	3081.2	3139.0	3142.4	3186.7	3217.3
12.5°	2938.2	2938.2	2938.2	2962.0	2989.2	3040.3	3088.0	3149.3	3156.1	3203.7	3231.0
15°	2975.6	2979.0	2972.2	2996.1	3026.7	3088.0	3132.2	3196.9	3203.7	3248.0	3265.0
17.5°	3108.4	3122.0	3105.0	3118.6	3111.8	3159.5	3200.3	3265.0	3268.4	3305.9	3312.7
20°	3370.6	3384.2	3356.9	3339.9	3278.6	3275.2	3292.3	3343.3	3343.3	3367.2	3350.1
22.5°	3775.7	3789.3	3741.7	3677.0	3530.6	3459.1	3421.6	3445.5	3442.1	3452.3	3408.0
25°	4313.6	4310.2	4252.3	4133.2	3898.3	3724.6	3632.7	3595.3	3595.3	3574.8	3520.4
27.5°	4980.9	4929.9	4827.7	4684.7	4357.9	4116.2	3918.7	3823.4	3806.3	3745.1	3642.9
30°	5692.5	5655.0	5508.6	5301.0	4923.1	4613.2	4286.4	4095.7	4085.5	3952.7	3799.5
32.5°	6530.0	6468.7	6305.3	6056.8	5604.0	5168.2	4759.6	4470.2	4453.2	4242.1	4031.0
35°	7605.9	7554.8	7238.2	6989.6	6407.5	5835.5	5352.0	4967.3	4953.7	4694.9	4426.0
37.5°	8896.2	8763.4	8457.0	7990.6	7377.8	6700.3	6087.4	5604.0	5587.0	5301.0	4960.5
40°	10047.0	9927.8	9655.5	9226.5	8569.4	7817.0	6986.2	6400.7	6383.6	6036.4	5607.4
42.5°	10898.1	10816.4	10639.4	10390.8	9921.0	9464.8	8133.6	7364.2	7333.5	6884.1	6349.6
45°	11391.8	11327.1	11225.0	11286.3	11279.4	11194.3	9502.2	8511.5	8412.8	7830.6	7176.9
47.5°	11272.6	11214.8	11255.6	11732.3	12389.3	12883.0	11095.6	9686.1	9553.3	8794.1	8058.7
50°	10411.3	10435.1	10649.6	11562.0	13036.2	14132.5	12862.6	11024.1	10847.1	9764.4	8896.2
52.5°	8841.8	8899.6	9420.5	10697.3	12964.7	14942.8	14459.3	12406.4	12171.5	10710.9	9658.9
55°	7023.7	7170.1	7844.2	9185.6	12031.9	15000.7	15664.6	13795.4	13536.7	11599.5	10322.8
57.5°	5195.4	5413.3	6193.0	7425.4	10244.4	14084.8	16267.2	15123.2	14810.0	12481.3	11024.1
60°	3295.7	3428.4	4327.2	5781.0	7840.8	11844.6	16188.9	16253.6	15981.2	13359.7	11756.1
62.5°	2104.0	2168.7	2621.5	4123.0	5481.4	8770.3	15334.3	17108.1	16924.3	14159.7	12450.6
65°	1351.6	1378.9	1610.4	2536.4	3731.4	5294.2	13206.5	17200.1	17223.9	14660.2	12879.6
67.5°	1099.7	1113.3	1198.4	1566.1	2638.6	2924.6	9199.2	15892.7	16182.1	14530.8	12733.2
70°	1001.0	1018.0	1106.5	1249.5	2042.8	2018.9	4453.2	13298.4	13771.6	13785.2	12082.9
72.5°	844.3	868.2	987.3	1181.4	1579.7	1593.4	1886.1	9471.6	10169.5	12321.3	11105.8
75°	704.8	718.4	820.5	1041.8	1338.0	1273.3	1324.4	5021.8	6029.6	9880.2	10067.4
77.5°	572.0	585.6	660.5	830.7	1188.2	990.7	1041.8	2080.2	2570.5	6707.1	8228.9
80°	408.6	422.2	507.3	646.9	898.8	892.0	772.8	1147.4	1246.1	3625.9	5345.2
82.5°	292.8	303.0	384.7	463.0	623.0	895.4	582.2	779.7	817.1	1607.0	2155.1
85°	197.5	197.5	265.6	306.4	401.7	565.2	469.8	527.7	551.5	762.6	582.2
87.5°	85.1	85.1	143.0	156.6	211.1	262.2	350.7	265.6	272.4	412.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4	3268.4
2.5°	3254.8	3258.2	3265.0	3285.4	3299.1	3319.5	3329.7	3343.3	3343.3	3336.5	3339.9
5°	3248.0	3258.2	3282.0	3319.5	3343.3	3380.8	3408.0	3428.4	3435.2	3428.4	3431.8
7.5°	3244.6	3261.6	3302.5	3356.9	3391.0	3438.6	3476.1	3499.9	3517.0	3510.1	3513.5
10°	3234.4	3261.6	3312.7	3380.8	3431.8	3479.5	3513.5	3523.8	3534.0	3527.2	3523.8
12.5°	3248.0	3278.6	3333.1	3414.8	3472.7	3510.1	3520.4	3503.3	3479.5	3465.9	3462.5
15°	3275.2	3305.9	3360.3	3445.5	3496.5	3510.1	3486.3	3431.8	3377.4	3346.7	3343.3
17.5°	3312.7	3333.1	3377.4	3452.3	3493.1	3476.1	3428.4	3363.7	3322.9	3299.1	3302.5
20°	3336.5	3336.5	3370.6	3428.4	3462.5	3448.9	3391.0	3319.5	3254.8	3224.2	3213.9
22.5°	3370.6	3353.5	3356.9	3408.0	3455.7	3435.2	3312.7	3186.7	3094.8	3060.7	3057.3
25°	3462.5	3414.8	3384.2	3414.8	3527.2	3360.3	3115.2	2968.8	2883.7	2853.1	2856.5
27.5°	3574.8	3510.1	3445.5	3496.5	3585.0	3190.1	2863.3	2696.4	2645.4	2621.5	2631.8
30°	3687.2	3602.1	3517.0	3700.8	3544.2	2924.6	2539.8	2376.4	2332.2	2315.1	2328.7
32.5°	3894.9	3755.3	3653.1	3973.2	3418.2	2621.5	2189.2	2039.4	1998.5	1978.1	1971.3
35°	4242.1	4065.1	3963.0	4211.5	3241.2	2284.5	1869.1	1763.6	1719.3	1675.1	1668.3
37.5°	4742.6	4528.1	4436.2	4347.7	2992.6	1950.8	1624.0	1552.5	1487.8	1419.7	1416.3
40°	5341.8	5062.6	4994.6	4409.0	2648.8	1637.6	1453.8	1385.7	1304.0	1239.3	1242.7
42.5°	6033.0	5675.5	5529.1	4391.9	2223.2	1470.8	1331.2	1256.3	1184.8	1126.9	1123.5
45°	6771.8	6366.6	6029.6	4272.8	1801.0	1355.0	1256.3	1167.8	1096.3	1031.6	1024.8
47.5°	7588.9	7136.0	6492.6	4041.3	1487.8	1273.3	1212.0	1086.1	1021.4	980.5	980.5
50°	8412.8	7871.4	6918.2	3690.6	1304.0	1212.0	1147.4	1041.8	990.7	956.7	956.7
52.5°	9117.5	8637.5	7268.8	3271.8	1188.2	1161.0	1103.1	1021.4	966.9	936.3	932.9
55°	9801.9	9349.0	7582.0	2856.5	1092.9	1092.9	1092.9	1004.4	943.1	915.8	912.4
57.5°	10482.8	10098.1	7908.9	2584.1	1007.8	1035.0	1072.4	983.9	922.6	898.8	895.4
60°	11252.2	10996.9	8286.8	2393.4	932.9	973.7	1045.2	960.1	888.6	868.2	864.8
62.5°	12069.3	12069.3	8630.7	2124.5	864.8	922.6	1004.4	929.5	858.0	840.9	837.5
65°	12709.4	12985.2	8852.0	1722.7	796.7	871.6	956.7	888.6	817.1	813.7	806.9
67.5°	12784.3	13216.7	8712.4	1300.6	735.4	817.1	909.0	844.3	776.2	776.2	766.0
70°	12246.4	12685.5	8276.6	973.7	691.1	762.6	847.7	789.9	725.2	732.0	715.0
72.5°	11347.5	11456.5	7193.9	769.4	640.1	704.8	772.8	728.6	670.7	670.7	646.9
75°	10162.7	9556.7	5226.1	643.5	578.8	636.7	697.9	660.5	609.4	592.4	578.8
77.5°	8089.3	6925.0	3036.9	555.0	527.7	572.0	612.8	585.6	541.3	503.9	503.9
80°	4929.9	4058.3	1341.4	480.0	466.4	500.5	527.7	497.1	459.6	422.2	412.0
82.5°	1875.9	1566.1	650.3	412.0	408.6	429.0	449.4	418.8	391.5	374.5	323.4
85°	514.1	473.2	446.0	343.9	337.1	333.7	357.5	343.9	306.4	251.9	224.7
87.5°	194.1	221.3	241.7	211.1	224.7	207.7	238.3	217.9	194.1	126.0	112.4
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)