

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: P400329

Luminaire Tested: **ARCH-L-PA3-260-830-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400329  
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-PA3-260-830-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 80 CRI, 3000K, 1110mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27214 lumens  
Efficiency: N/A  
Efficacy: 104.3 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

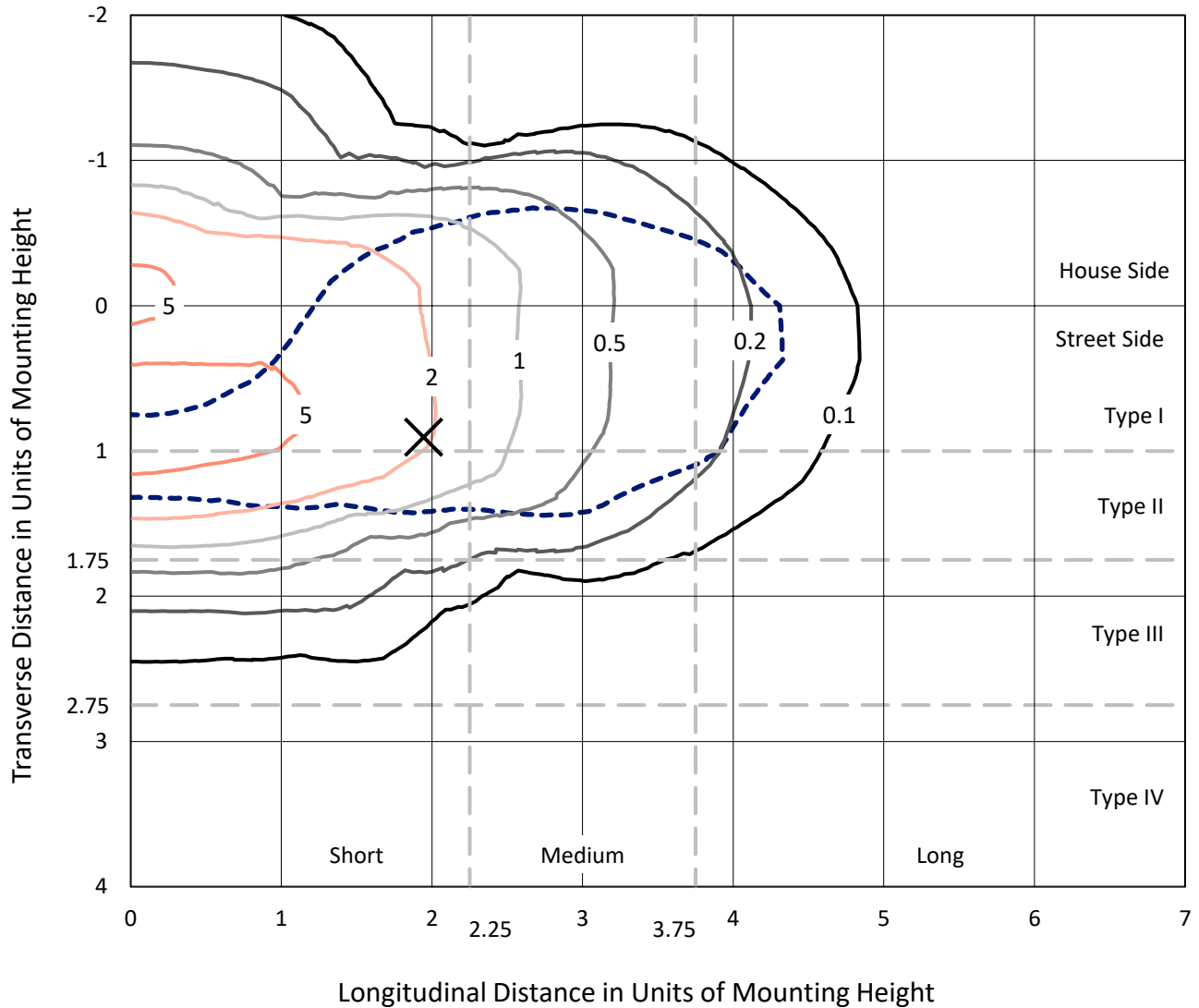
Input Watts (W): 261  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

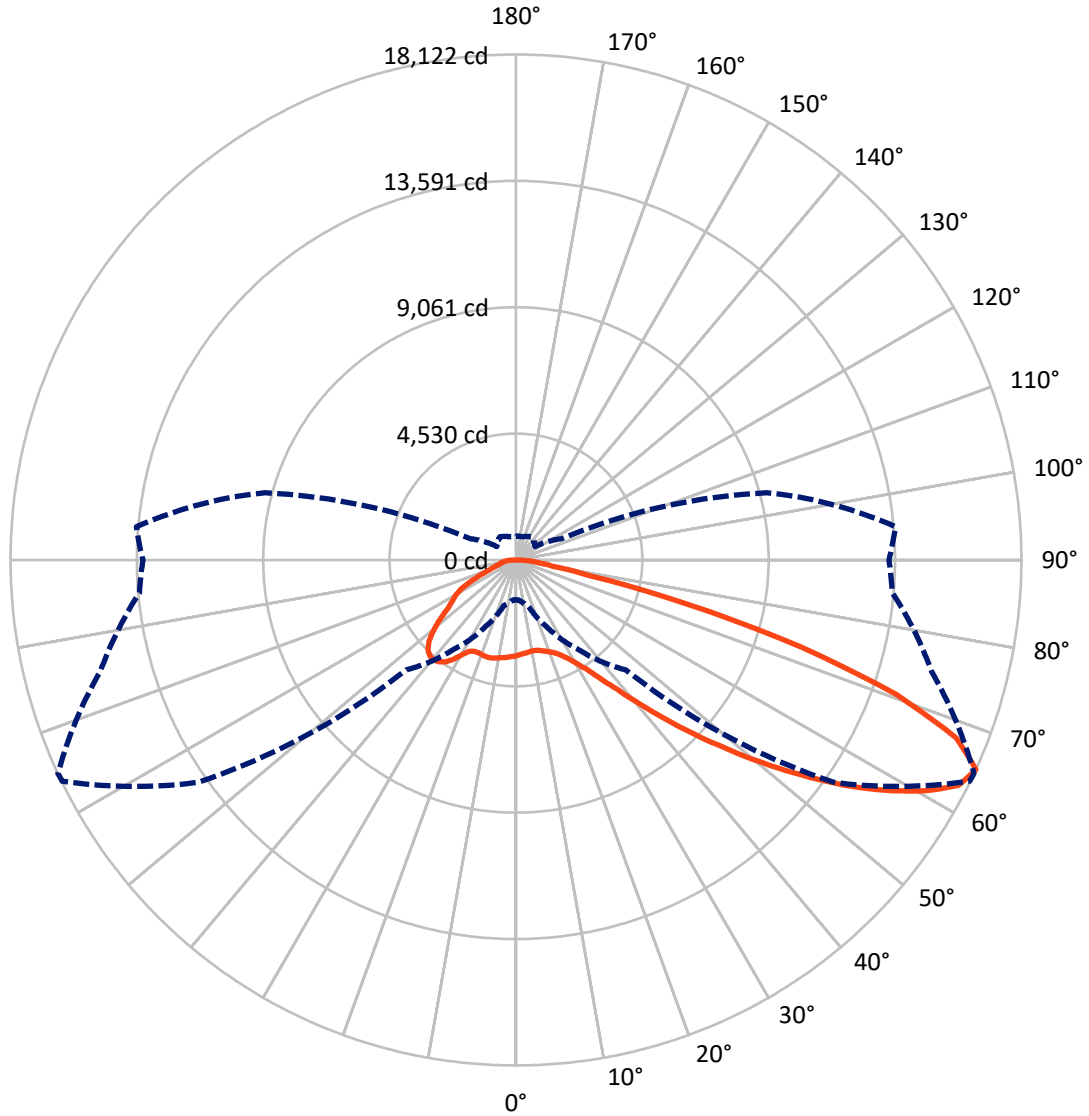
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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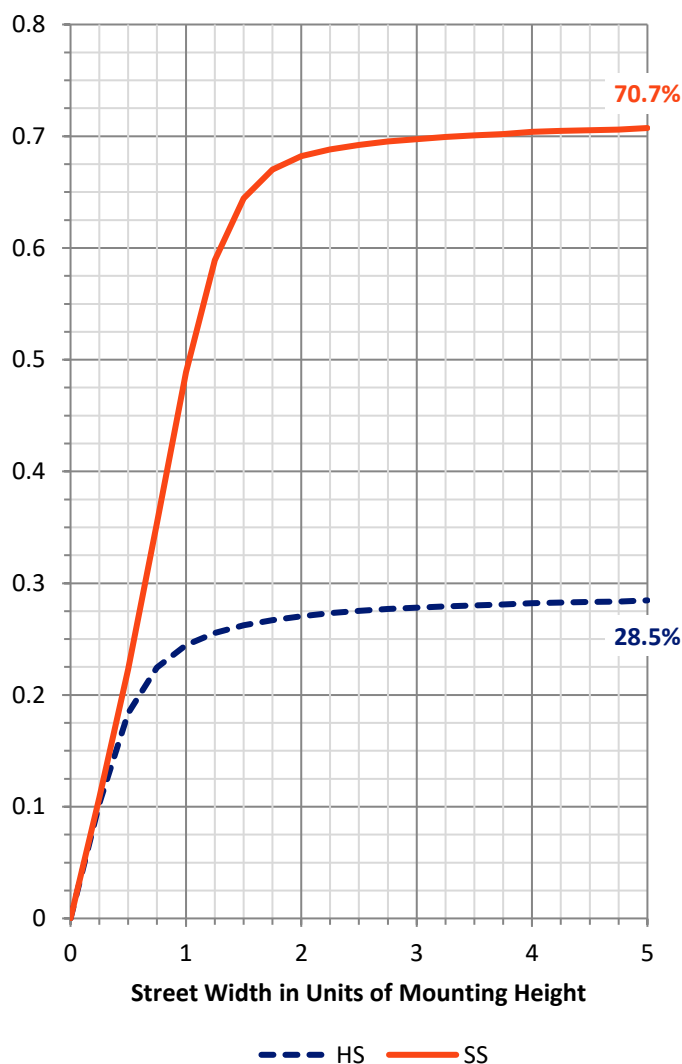
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7868.0	0.0	7868.0
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	19346.0	0.0	19346.0
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	27214.0	0.0	27214.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	327.6	1.2
10°-20°	978.1	3.6
20°-30°	1737.4	6.4
30°-40°	2939.3	10.8
40°-50°	5116.8	18.8
50°-60°	6612.5	24.3
60°-70°	5786.3	21.3
70°-80°	3147.3	11.6
80°-90°	568.7	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°	27214.0	100.0
0°-180°	27214.0	100.0

**Coefficient of Utilization**



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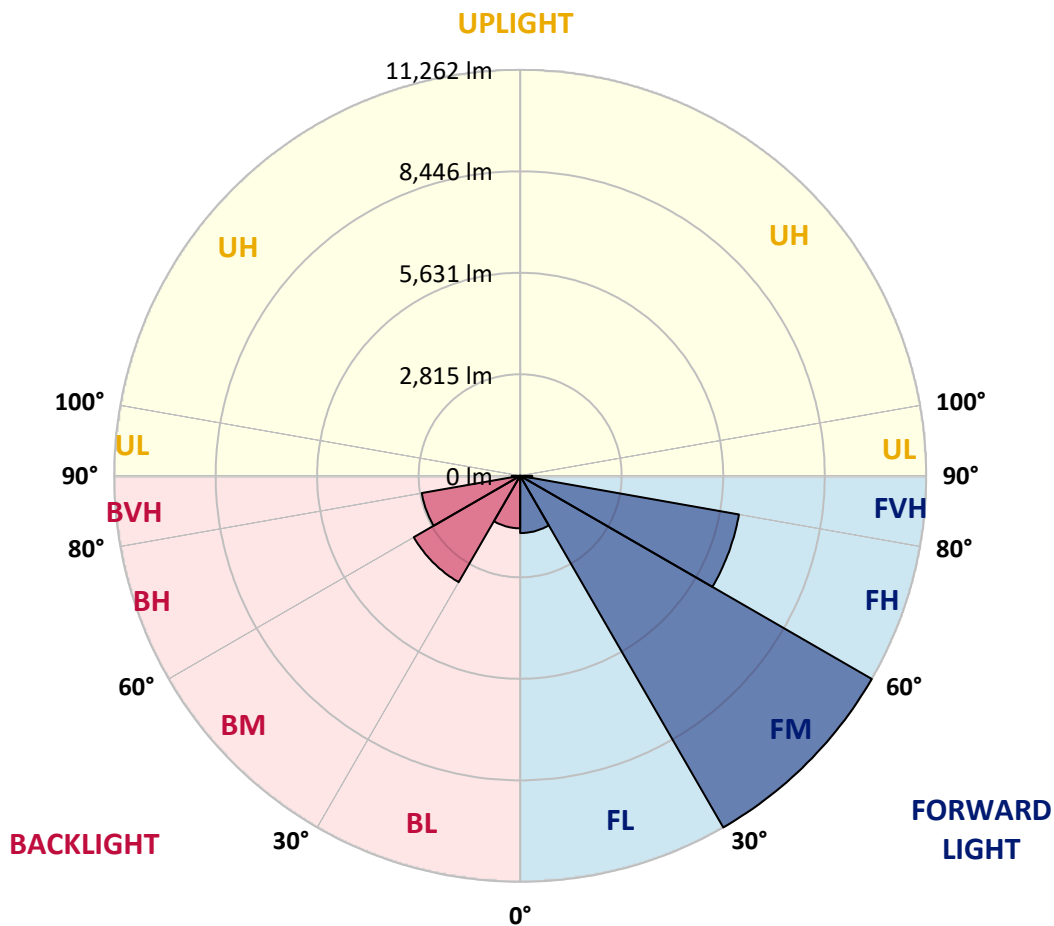
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1587.9	5.8			
FM (30°-60°)	11261.9	41.4			
FH (60°-80°)	6161.6	22.6			G3/7500
FVH (80°-90°)	334.6	1.2			G3/500
BL (0°-30°)	1455.3	5.3	B3/2500		
BM (30°-60°)	3406.7	12.5	B3/5000		
BH (60°-80°)	2772.0	10.2	B4/5000		G4/5000
BVH (80°-90°)	234.0	0.9			G3/500
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°	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8
2.5°	3377.9	3374.3	3367.1	3374.3	3377.9	3385.0	3381.4	3388.6	3385.0	3395.8	3413.7
5°	3291.9	3284.7	3281.1	3299.1	3309.8	3327.7	3334.9	3359.9	3356.4	3374.3	3402.9
7.5°	3195.2	3195.2	3191.6	3213.1	3227.4	3259.6	3284.7	3327.7	3331.3	3363.5	3395.8
10°	3120.0	3123.5	3120.0	3137.9	3159.4	3198.8	3241.7	3302.6	3306.2	3352.8	3385.0
12.5°	3091.3	3091.3	3091.3	3116.4	3145.0	3198.8	3248.9	3313.4	3320.5	3370.7	3399.3
15°	3130.7	3134.3	3127.1	3152.2	3184.4	3248.9	3295.5	3363.5	3370.7	3417.3	3435.2
17.5°	3270.4	3284.7	3266.8	3281.1	3274.0	3324.1	3367.1	3435.2	3438.8	3478.2	3485.3
20°	3546.2	3560.5	3531.9	3514.0	3449.5	3445.9	3463.8	3517.6	3517.6	3542.6	3524.7
22.5°	3972.5	3986.8	3936.7	3868.6	3714.6	3639.3	3599.9	3625.0	3621.4	3632.2	3585.6
25°	4538.4	4534.9	4474.0	4348.6	4101.4	3918.7	3822.0	3782.6	3782.6	3761.1	3703.8
27.5°	5240.5	5186.8	5079.3	4928.9	4585.0	4330.7	4122.9	4022.6	4004.7	3940.2	3832.8
30°	5989.2	5949.8	5795.7	5577.2	5179.6	4853.7	4509.8	4309.2	4298.4	4158.7	3997.5
32.5°	6870.3	6805.9	6633.9	6372.4	5896.0	5437.5	5007.7	4703.2	4685.3	4463.2	4241.1
35°	8002.3	7948.5	7615.4	7353.9	6741.4	6139.6	5631.0	5226.2	5211.9	4939.6	4656.6
37.5°	9359.9	9220.2	8897.8	8407.0	7762.3	7049.4	6404.7	5896.0	5878.1	5577.2	5219.0
40°	10570.6	10445.2	10158.6	9707.3	9016.0	8224.3	7350.3	6734.2	6716.3	6350.9	5899.6
42.5°	11466.1	11380.1	11193.9	10932.4	10438.0	9958.0	8557.5	7747.9	7715.7	7242.9	6680.5
45°	11985.5	11917.4	11810.0	11874.4	11867.3	11777.7	9997.5	8955.1	8851.2	8238.7	7550.9
47.5°	11860.1	11799.2	11842.2	12343.7	13035.0	13554.4	11673.8	10190.9	10051.2	9252.4	8478.7
50°	10953.9	10978.9	11204.6	12164.6	13715.6	14869.0	13532.9	11598.6	11412.4	10273.3	9359.9
52.5°	9302.5	9363.4	9911.5	11254.7	13640.4	15721.5	15212.9	13052.9	12805.8	11269.1	10162.2
55°	7389.7	7543.8	8253.0	9664.3	12658.9	15782.4	16480.9	14514.4	14242.2	12204.0	10860.7
57.5°	5466.2	5695.4	6515.7	7812.4	10778.3	14818.9	17115.0	15911.4	15581.8	13131.7	11598.6
60°	3467.4	3607.1	4552.8	6082.3	8249.4	12461.9	17032.6	17100.6	16814.1	14055.9	12368.8
62.5°	2213.7	2281.8	2758.2	4337.8	5767.1	9227.3	16133.5	17999.7	17806.3	14897.7	13099.5
65°	1422.1	1450.7	1694.3	2668.6	3925.9	5570.1	13894.7	18096.4	18121.5	15424.2	13550.8
67.5°	1157.0	1171.3	1260.9	1647.7	2776.1	3077.0	9678.7	16720.9	17025.4	15288.1	13396.8
70°	1053.1	1071.0	1164.2	1314.6	2149.2	2124.1	4685.3	13991.4	14489.3	14503.6	12712.6
72.5°	888.3	913.4	1038.8	1243.0	1662.1	1676.4	1984.4	9965.2	10699.5	12963.4	11684.6
75°	741.5	755.8	863.3	1096.1	1407.7	1339.7	1393.4	5283.5	6343.8	10395.1	10592.1
77.5°	601.8	616.1	694.9	874.0	1250.1	1042.4	1096.1	2188.6	2704.4	7056.6	8657.8
80°	429.8	444.2	533.7	680.6	945.7	938.5	813.1	1207.1	1311.0	3814.9	5623.8
82.5°	308.1	318.8	404.8	487.2	655.5	942.1	612.5	820.3	859.7	1690.7	2267.4
85°	207.8	207.8	279.4	322.4	422.7	594.6	494.3	555.2	580.3	802.4	612.5
87.5°	89.6	89.6	150.4	164.8	222.1	275.8	368.9	279.4	286.6	433.4	250.7
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°	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8	3438.8
2.5°	3424.4	3428.0	3435.2	3456.7	3471.0	3492.5	3503.2	3517.6	3517.6	3510.4	3514.0
5°	3417.3	3428.0	3453.1	3492.5	3517.6	3557.0	3585.6	3607.1	3614.3	3607.1	3610.7
7.5°	3413.7	3431.6	3474.6	3531.9	3567.7	3617.9	3657.3	3682.3	3700.2	3693.1	3696.7
10°	3402.9	3431.6	3485.3	3557.0	3610.7	3660.8	3696.7	3707.4	3718.1	3711.0	3707.4
12.5°	3417.3	3449.5	3506.8	3592.8	3653.7	3693.1	3703.8	3685.9	3660.8	3646.5	3642.9
15°	3445.9	3478.2	3535.5	3625.0	3678.7	3693.1	3668.0	3610.7	3553.4	3521.1	3517.6
17.5°	3485.3	3506.8	3553.4	3632.2	3675.2	3657.3	3607.1	3539.0	3496.1	3471.0	3474.6
20°	3510.4	3510.4	3546.2	3607.1	3642.9	3628.6	3567.7	3492.5	3424.4	3392.2	3381.4
22.5°	3546.2	3528.3	3531.9	3585.6	3635.8	3614.3	3485.3	3352.8	3256.1	3220.2	3216.7
25°	3642.9	3592.8	3560.5	3592.8	3711.0	3535.5	3277.6	3123.5	3034.0	3001.7	3005.3
27.5°	3761.1	3693.1	3625.0	3678.7	3771.9	3356.4	3012.5	2837.0	2783.2	2758.2	2768.9
30°	3879.3	3789.8	3700.2	3893.7	3728.9	3077.0	2672.2	2500.3	2453.7	2435.8	2450.1
32.5°	4097.8	3951.0	3843.5	4180.2	3596.4	2758.2	2303.2	2145.6	2102.7	2081.2	2074.0
35°	4463.2	4276.9	4169.5	4431.0	3410.1	2403.5	1966.5	1855.5	1808.9	1762.4	1755.2
37.5°	4989.8	4764.1	4667.4	4574.3	3148.6	2052.5	1708.6	1633.4	1565.3	1493.7	1490.1
40°	5620.2	5326.5	5254.8	4638.7	2786.8	1723.0	1529.5	1457.9	1371.9	1303.9	1307.4
42.5°	6347.4	5971.2	5817.2	4620.8	2339.1	1547.4	1400.6	1321.8	1246.5	1185.7	1182.1
45°	7124.7	6698.4	6343.8	4495.5	1894.9	1425.6	1321.8	1228.6	1153.4	1085.4	1078.2
47.5°	7984.4	7507.9	6830.9	4251.9	1565.3	1339.7	1275.2	1142.7	1074.6	1031.6	1031.6
50°	8851.2	8281.7	7278.7	3882.9	1371.9	1275.2	1207.1	1096.1	1042.4	1006.6	1006.6
52.5°	9592.7	9087.6	7647.6	3442.3	1250.1	1221.5	1160.6	1074.6	1017.3	985.1	981.5
55°	10312.7	9836.3	7977.2	3005.3	1149.8	1149.8	1149.8	1056.7	992.2	963.6	960.0
57.5°	11029.1	10624.3	8321.1	2718.8	1060.3	1088.9	1128.3	1035.2	970.7	945.7	942.1
60°	11838.6	11570.0	8718.7	2518.2	981.5	1024.5	1099.7	1010.1	934.9	913.4	909.8
62.5°	12698.3	12698.3	9080.5	2235.2	909.8	970.7	1056.7	977.9	902.7	884.8	881.2
65°	13371.7	13661.9	9313.3	1812.5	838.2	917.0	1006.6	934.9	859.7	856.1	848.9
67.5°	13450.5	13905.4	9166.4	1368.3	773.7	859.7	956.4	888.3	816.7	816.7	806.0
70°	12884.6	13346.7	8707.9	1024.5	727.2	802.4	891.9	831.0	763.0	770.1	752.2
72.5°	11938.9	12053.5	7568.8	809.5	673.4	741.5	813.1	766.6	705.7	705.7	680.6
75°	10692.4	10054.8	5498.4	677.0	608.9	669.8	734.3	694.9	641.2	623.3	608.9
77.5°	8510.9	7285.9	3195.2	583.9	555.2	601.8	644.8	616.1	569.5	530.1	530.1
80°	5186.8	4269.8	1411.3	505.1	490.7	526.6	555.2	523.0	483.6	444.2	433.4
82.5°	1973.7	1647.7	684.2	433.4	429.8	451.3	472.8	440.6	411.9	394.0	340.3
85°	540.9	497.9	469.2	361.8	354.6	351.0	376.1	361.8	322.4	265.1	236.4
87.5°	204.2	232.8	254.3	222.1	236.4	218.5	250.7	229.3	204.2	132.5	118.2
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)