

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: P400230

Luminaire Tested: **ARCH-L-PA3-250-750-U-T2U**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P400230  
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-PA3-250-750-U-T2U  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 33454 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

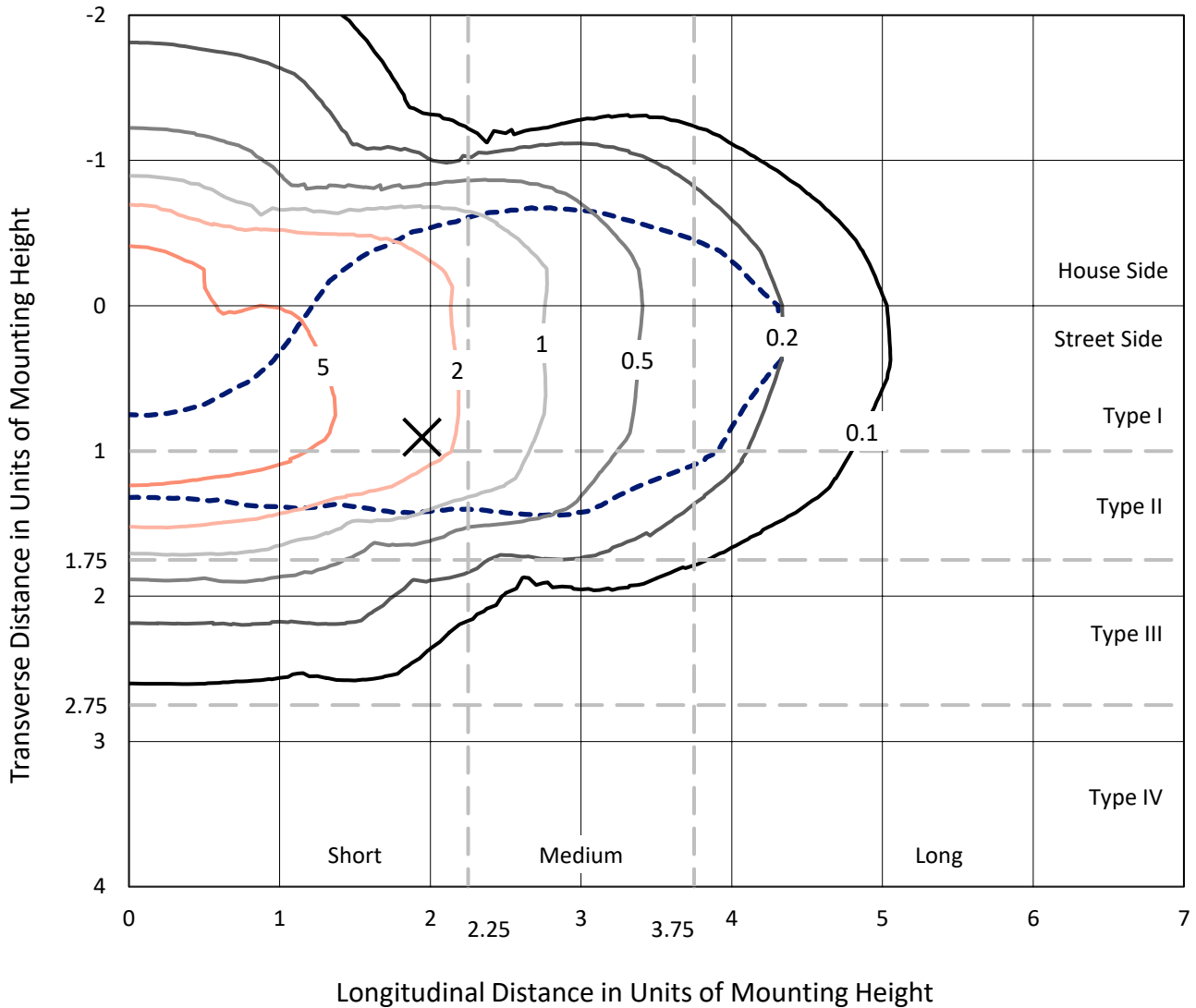
Input Watts (W): 251  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

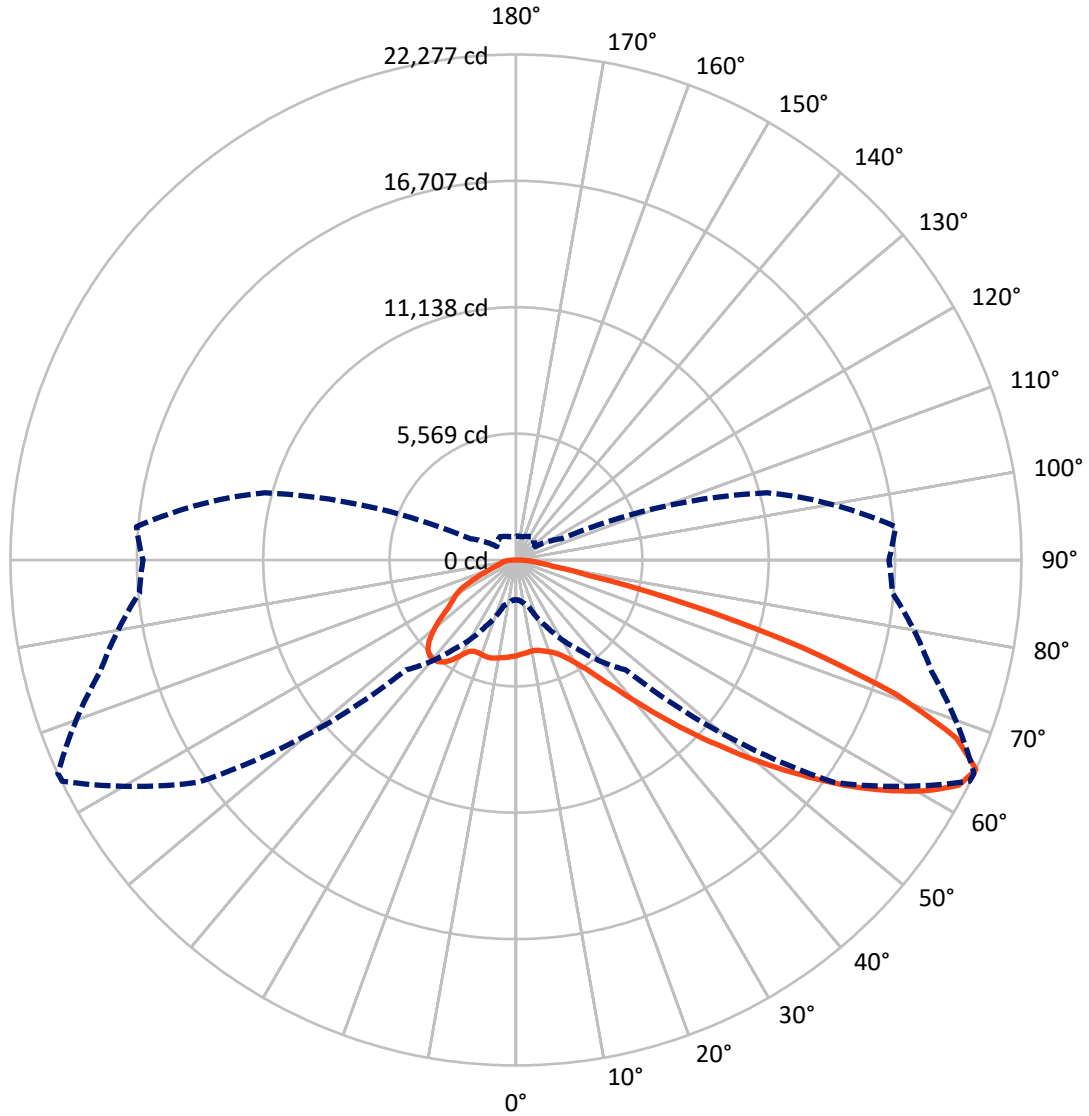
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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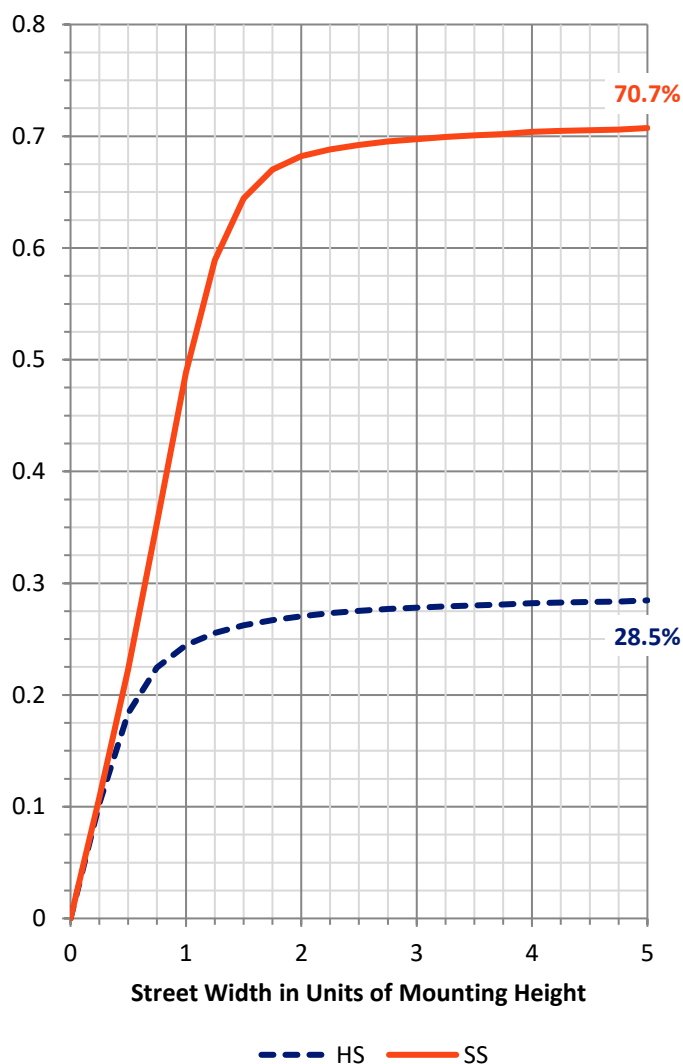
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9672.0	0.0	9672.0
	% Fixture	28.9	0.0	28.9
<b>Street Side</b>	Lumens	23782.0	0.0	23782.0
	% Fixture	71.1	0.0	71.1
<b>Total</b>	Lumens	33454.0	0.0	33454.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	402.7	1.2
10°-20°	1202.4	3.6
20°-30°	2135.8	6.4
30°-40°	3613.3	10.8
40°-50°	6290.0	18.8
50°-60°	8128.7	24.3
60°-70°	7113.0	21.3
70°-80°	3869.0	11.6
80°-90°	699.1	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°	33454.0	100.0
0°-180°	33454.0	100.0

**Coefficient of Utilization**



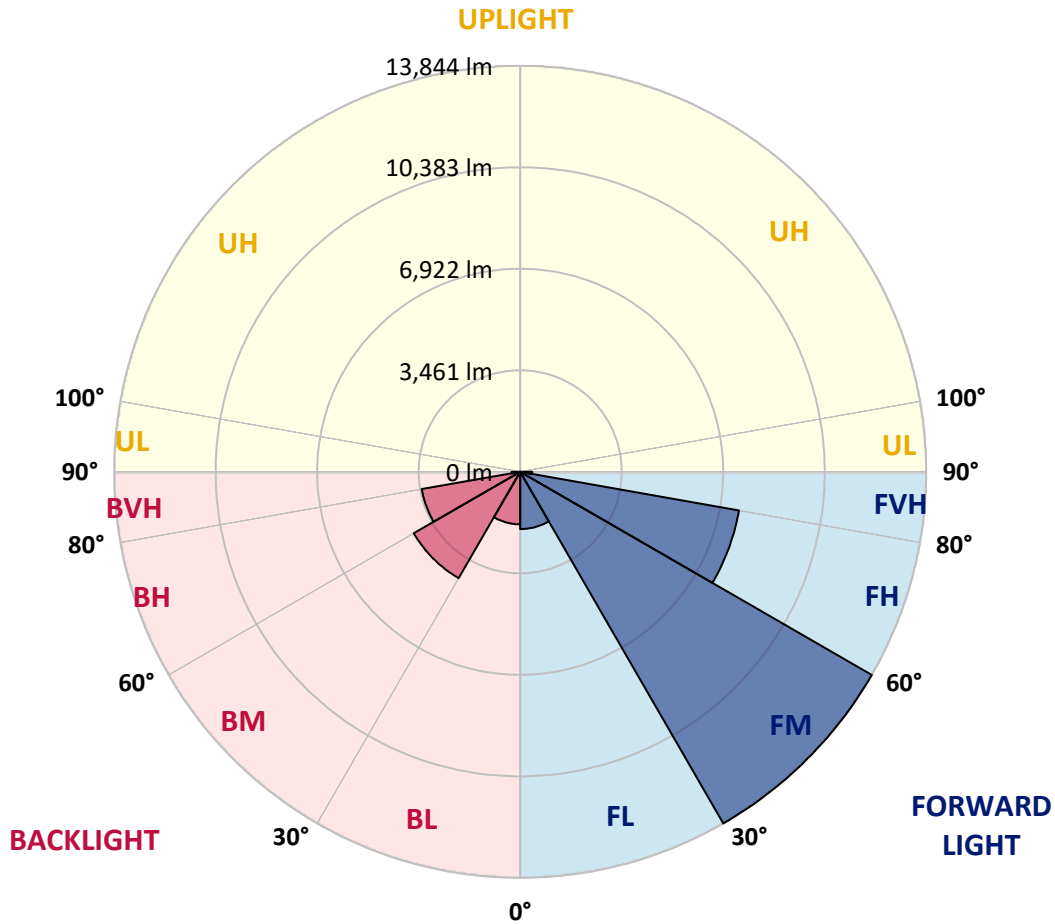
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1952.0	5.8			
FM (30°-60°)	13844.2	41.4			
FH (60°-80°)	7574.5	22.6			G4/12000
FVH (80°-90°)	411.4	1.2			G3/500
BL (0°-30°)	1789.0	5.3	B3/2500		
BM (30°-60°)	4187.8	12.5	B3/5000		
BH (60°-80°)	3407.6	10.2	B4/5000		G4/5000
BVH (80°-90°)	287.7	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°	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2
2.5°	4152.4	4148.0	4139.2	4148.0	4152.4	4161.2	4156.8	4165.6	4161.2	4174.4	4196.4
5°	4046.7	4037.9	4033.5	4055.5	4068.7	4090.7	4099.5	4130.4	4126.0	4148.0	4183.2
7.5°	3927.8	3927.8	3923.4	3949.8	3967.4	4007.1	4037.9	4090.7	4095.1	4134.8	4174.4
10°	3835.3	3839.7	3835.3	3857.4	3883.8	3932.2	3985.0	4059.9	4064.3	4121.6	4161.2
12.5°	3800.1	3800.1	3800.1	3830.9	3866.2	3932.2	3993.9	4073.1	4081.9	4143.6	4178.8
15°	3848.5	3852.9	3844.1	3875.0	3914.6	3993.9	4051.1	4134.8	4143.6	4200.8	4222.8
17.5°	4020.3	4037.9	4015.9	4033.5	4024.7	4086.3	4139.2	4222.8	4227.2	4275.7	4284.5
20°	4359.3	4376.9	4341.7	4319.7	4240.4	4236.0	4258.1	4324.1	4324.1	4354.9	4332.9
22.5°	4883.3	4901.0	4839.3	4755.6	4566.3	4473.8	4425.4	4456.2	4451.8	4465.0	4407.8
25°	5579.1	5574.7	5499.8	5345.7	5041.9	4817.3	4698.4	4650.0	4650.0	4623.5	4553.1
27.5°	6442.1	6376.1	6244.0	6059.0	5636.3	5323.7	5068.3	4945.0	4923.0	4843.7	4711.6
30°	7362.4	7314.0	7124.7	6856.0	6367.3	5966.6	5543.8	5297.3	5284.0	5112.3	4914.2
32.5°	8445.7	8366.4	8155.0	7833.6	7247.9	6684.3	6155.9	5781.6	5759.6	5486.6	5213.6
35°	9837.1	9771.1	9361.6	9040.1	8287.1	7547.4	6922.1	6424.5	6406.9	6072.2	5724.4
37.5°	11506.0	11334.3	10938.0	10334.7	9542.1	8665.8	7873.2	7247.9	7225.9	6856.0	6415.7
40°	12994.3	12840.2	12488.0	11933.1	11083.3	10110.1	9035.7	8278.3	8256.3	7807.2	7252.4
42.5°	14095.2	13989.5	13760.5	13439.1	12831.4	12241.4	10519.7	9524.5	9484.9	8903.6	8212.3
45°	14733.7	14650.0	14517.9	14597.2	14588.4	14478.3	12289.8	11008.4	10880.7	10127.8	9282.3
47.5°	14579.6	14504.7	14557.5	15174.0	16023.9	16662.4	14350.6	12527.6	12355.9	11373.9	10422.8
50°	13465.5	13496.3	13773.7	14953.8	16860.5	18278.4	16635.9	14258.1	14029.1	12628.9	11506.0
52.5°	11435.6	11510.4	12184.1	13835.4	16768.0	19326.4	18701.1	16045.9	15742.0	13853.0	12492.4
55°	9084.2	9273.5	10145.4	11880.3	15561.5	19401.2	20259.9	17842.5	17507.8	15002.3	13351.0
57.5°	6719.5	7001.4	8009.7	9603.7	13249.7	18216.7	21039.3	19559.8	19154.7	16142.8	14258.1
60°	4262.5	4434.2	5596.7	7476.9	10141.0	15319.3	20938.0	21021.7	20669.4	17278.8	15204.8
62.5°	2721.3	2804.9	3390.6	5332.5	7089.4	11343.1	19832.8	22126.9	21889.2	18313.6	16103.1
65°	1748.1	1783.4	2082.8	3280.5	4826.1	6847.2	17080.7	22245.8	22276.6	18960.9	16657.9
67.5°	1422.3	1439.9	1550.0	2025.6	3412.6	3782.5	11897.9	20554.9	20929.2	18793.6	16468.6
70°	1294.6	1316.6	1431.1	1616.0	2642.0	2611.2	5759.6	17199.6	17811.6	17829.2	15627.6
72.5°	1092.0	1122.9	1277.0	1528.0	2043.2	2060.8	2439.5	12250.2	13152.9	15935.8	14363.8
75°	911.5	929.1	1061.2	1347.4	1730.5	1646.9	1712.9	6495.0	7798.4	12778.6	13020.8
77.5°	739.8	757.4	854.3	1074.4	1536.8	1281.4	1347.4	2690.5	3324.5	8674.6	10642.9
80°	528.4	546.0	656.1	836.6	1162.5	1153.7	999.6	1483.9	1611.6	4689.6	6913.3
82.5°	378.7	391.9	497.6	598.9	805.8	1158.1	753.0	1008.4	1056.8	2078.4	2787.3
85°	255.4	255.4	343.5	396.3	519.6	731.0	607.7	682.5	713.3	986.4	753.0
87.5°	110.1	110.1	184.9	202.6	273.0	339.1	453.5	343.5	352.3	532.8	308.2
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°	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2	4227.2
2.5°	4209.6	4214.0	4222.8	4249.3	4266.9	4293.3	4306.5	4324.1	4324.1	4315.3	4319.7
5°	4200.8	4214.0	4244.8	4293.3	4324.1	4372.5	4407.8	4434.2	4443.0	4434.2	4438.6
7.5°	4196.4	4218.4	4271.3	4341.7	4385.8	4447.4	4495.8	4526.7	4548.7	4539.9	4544.3
10°	4183.2	4218.4	4284.5	4372.5	4438.6	4500.2	4544.3	4557.5	4570.7	4561.9	4557.5
12.5°	4200.8	4240.4	4310.9	4416.6	4491.4	4539.9	4553.1	4531.1	4500.2	4482.6	4478.2
15°	4236.0	4275.7	4346.1	4456.2	4522.3	4539.9	4509.1	4438.6	4368.1	4328.5	4324.1
17.5°	4284.5	4310.9	4368.1	4465.0	4517.9	4495.8	4434.2	4350.5	4297.7	4266.9	4271.3
20°	4315.3	4315.3	4359.3	4434.2	4478.2	4460.6	4385.8	4293.3	4209.6	4170.0	4156.8
22.5°	4359.3	4337.3	4341.7	4407.8	4469.4	4443.0	4284.5	4121.6	4002.7	3958.6	3954.2
25°	4478.2	4416.6	4376.9	4416.6	4561.9	4346.1	4029.1	3839.7	3729.7	3690.0	3694.4
27.5°	4623.5	4539.9	4456.2	4522.3	4636.7	4126.0	3703.2	3487.5	3421.4	3390.6	3403.8
30°	4768.8	4658.8	4548.7	4786.5	4583.9	3782.5	3284.9	3073.6	3016.3	2994.3	3011.9
32.5°	5037.5	4856.9	4724.8	5138.7	4421.0	3390.6	2831.4	2637.6	2584.8	2558.4	2549.6
35°	5486.6	5257.6	5125.5	5447.0	4192.0	2954.7	2417.5	2280.9	2223.7	2166.5	2157.7
37.5°	6133.9	5856.5	5737.6	5623.1	3870.6	2523.1	2100.4	2007.9	1924.3	1836.2	1831.8
40°	6908.9	6547.8	6459.7	5702.4	3425.8	2118.0	1880.2	1792.2	1686.5	1602.8	1607.2
42.5°	7802.8	7340.4	7151.1	5680.3	2875.4	1902.3	1721.7	1624.8	1532.4	1457.5	1453.1
45°	8758.3	8234.3	7798.4	5526.2	2329.4	1752.5	1624.8	1510.4	1417.9	1334.2	1325.4
47.5°	9815.1	9229.5	8397.2	5226.8	1924.3	1646.9	1567.6	1404.7	1321.0	1268.2	1268.2
50°	10880.7	10180.6	8947.6	4773.3	1686.5	1567.6	1483.9	1347.4	1281.4	1237.3	1237.3
52.5°	11792.2	11171.3	9401.2	4231.6	1536.8	1501.5	1426.7	1321.0	1250.6	1210.9	1206.5
55°	12677.3	12091.7	9806.3	3694.4	1413.5	1413.5	1413.5	1299.0	1219.7	1184.5	1180.1
57.5°	13558.0	13060.4	10229.0	3342.2	1303.4	1338.6	1387.1	1272.6	1193.3	1162.5	1158.1
60°	14553.1	14222.9	10717.8	3095.6	1206.5	1259.4	1351.8	1241.8	1149.3	1122.9	1118.5
62.5°	15609.9	15609.9	11162.5	2747.7	1118.5	1193.3	1299.0	1202.1	1109.6	1087.6	1083.2
65°	16437.8	16794.5	11448.8	2228.1	1030.4	1127.3	1237.3	1149.3	1056.8	1052.4	1043.6
67.5°	16534.7	17093.9	11268.2	1682.1	951.1	1056.8	1175.7	1092.0	1004.0	1004.0	990.8
70°	15838.9	16407.0	10704.6	1259.4	893.9	986.4	1096.4	1021.6	937.9	946.7	924.7
72.5°	14676.4	14817.3	9304.3	995.2	827.8	911.5	999.6	942.3	867.5	867.5	836.6
75°	13144.1	12360.3	6759.2	832.2	748.6	823.4	902.7	854.3	788.2	766.2	748.6
77.5°	10462.4	8956.5	3927.8	717.7	682.5	739.8	792.6	757.4	700.1	651.7	651.7
80°	6376.1	5248.8	1734.9	620.9	603.3	647.3	682.5	642.9	594.5	546.0	532.8
82.5°	2426.3	2025.6	841.0	532.8	528.4	554.8	581.2	541.6	506.4	484.4	418.3
85°	664.9	612.1	576.8	444.7	435.9	431.5	462.4	444.7	396.3	325.8	290.6
87.5°	251.0	286.2	312.6	273.0	290.6	268.6	308.2	281.8	251.0	162.9	145.3
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)