

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: P399802

Luminaire Tested: **ARCH-L-PA3-190-750-U-T4W**

Issue Date: 5/19/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P399802  
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-PA3-190-750-U-T4W  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 5000K, 810mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27562 lumens  
Efficiency: N/A  
Efficacy: 145.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

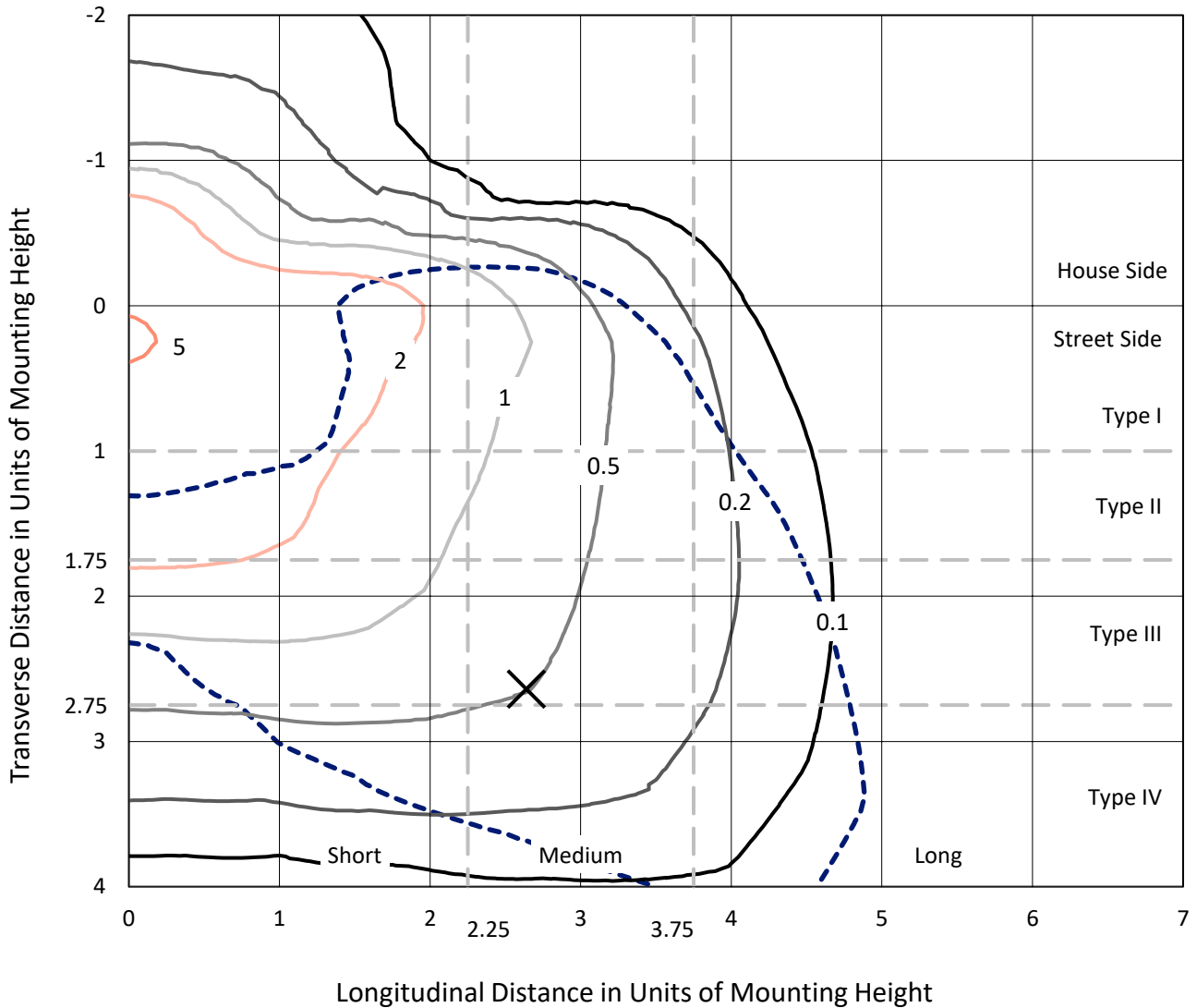
Input Watts (W): 189  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

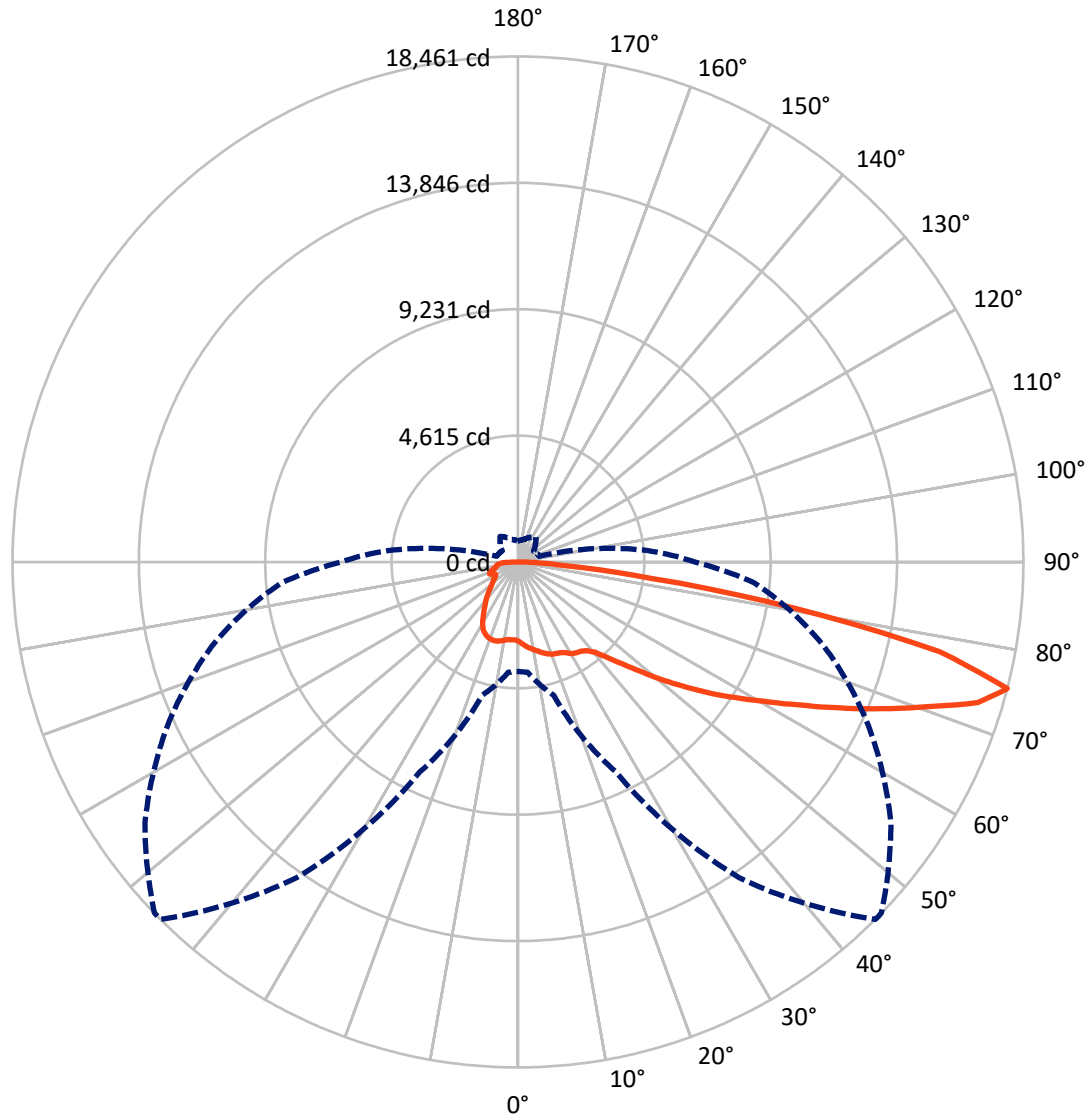
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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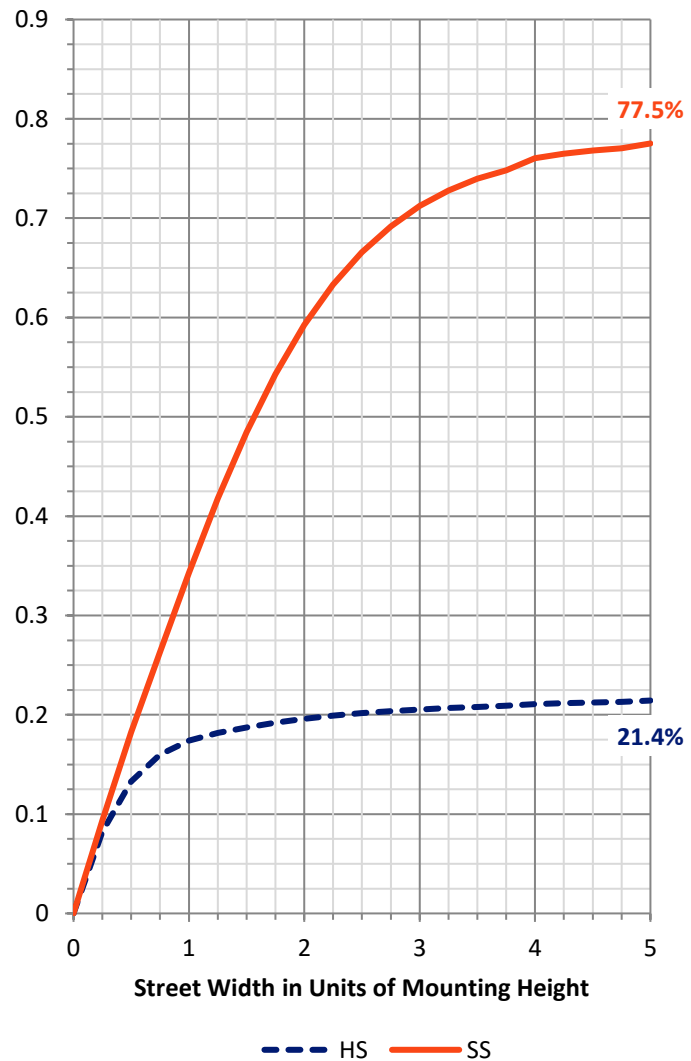
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6091.1	0.0	6091.1
	% Fixture	22.1	0.0	22.1
<b>Street Side</b>	Lumens	21470.9	0.0	21470.9
	% Fixture	77.9	0.0	77.9
<b>Total</b>	Lumens	27562.0	0.0	27562.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.4	1.0
10°-20°	911.0	3.3
20°-30°	1553.1	5.6
30°-40°	2176.2	7.9
40°-50°	3197.1	11.6
50°-60°	5088.2	18.5
60°-70°	7238.0	26.3
70°-80°	6060.3	22.0
80°-90°	1051.8	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°	27562.0	100.0
0°-180°	27562.0	100.0



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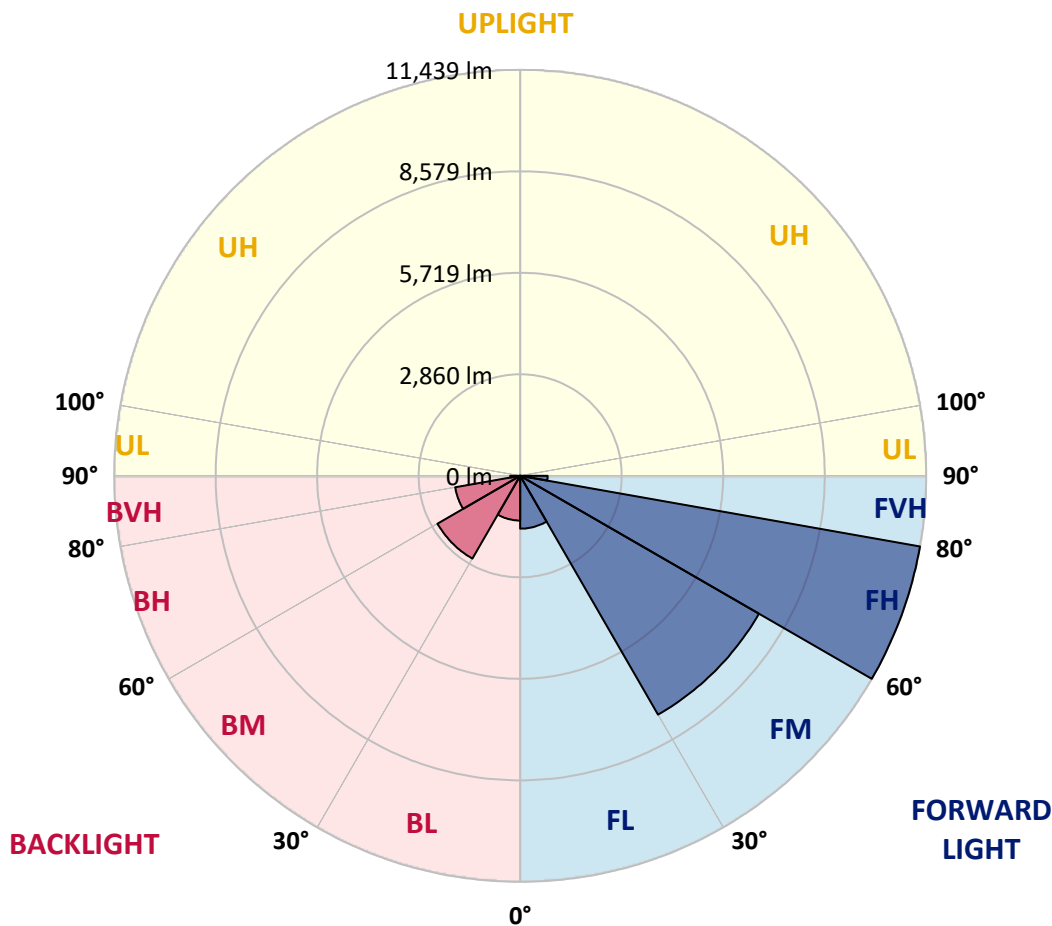
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1489.9	5.4			
FM (30°-60°)	7768.9	28.2			
FH (60°-80°)	11438.9	41.5			G4/12000
FVH (80°-90°)	773.2	2.8			G5
BL (0°-30°)	1260.6	4.6	B3/2500		
BM (30°-60°)	2692.5	9.8	B3/5000		
BH (60°-80°)	1859.4	6.7	B3/2500		G3/2500
BVH (80°-90°)	278.5	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-G5**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6
2.5°	3060.3	3045.6	3038.2	3038.2	3008.8	2990.4	2986.7	2960.9	2938.8	2916.7	2898.3
5°	3237.1	3226.1	3204.0	3185.5	3145.0	3093.5	3086.1	3030.9	2975.6	2924.1	2879.9
7.5°	3399.1	3377.0	3351.3	3314.4	3248.2	3178.2	3167.1	3089.8	3012.5	2935.1	2876.2
10°	3535.4	3513.3	3476.5	3424.9	3340.2	3255.5	3244.5	3163.5	3082.4	2990.4	2905.7
12.5°	3664.3	3645.9	3590.6	3520.7	3421.2	3343.9	3332.9	3262.9	3178.2	3075.1	2964.6
15°	3774.8	3756.4	3697.4	3616.4	3502.3	3443.3	3428.6	3362.3	3277.6	3167.1	3053.0
17.5°	3830.0	3830.0	3767.4	3679.0	3572.2	3528.0	3517.0	3436.0	3358.6	3251.8	3137.7
20°	3848.4	3855.8	3811.6	3704.8	3612.7	3594.3	3583.3	3517.0	3428.6	3325.5	3218.7
22.5°	3859.5	3874.2	3837.4	3715.9	3638.5	3627.5	3620.1	3575.9	3505.9	3406.5	3299.7
25°	3896.3	3896.3	3870.5	3734.3	3671.7	3668.0	3668.0	3642.2	3594.3	3509.6	3402.8
27.5°	3951.6	3947.9	3914.7	3774.8	3745.3	3756.4	3752.7	3749.0	3715.9	3631.2	3517.0
30°	4043.6	4043.6	4006.8	3855.8	3837.4	3885.3	3888.9	3896.3	3844.8	3712.2	3620.1
32.5°	4183.6	4168.8	4132.0	3936.8	3907.4	3951.6	3958.9	3955.2	3911.0	3785.8	3741.6
35°	4614.4	4581.3	4448.7	4117.3	3970.0	3995.7	3999.4	4017.8	4025.2	3925.8	3903.7
37.5°	5369.4	5325.2	5122.7	4544.5	4168.8	4106.2	4102.5	4150.4	4190.9	4102.5	4102.5
40°	6190.6	6153.8	6036.0	5281.0	4537.1	4330.9	4316.1	4360.3	4411.9	4349.3	4367.7
42.5°	6897.7	6927.2	6938.2	6061.7	5089.5	4750.7	4710.2	4647.6	4728.6	4673.4	4747.0
45°	7428.0	7413.3	7615.9	6860.9	5804.0	5277.3	5222.1	5052.7	5155.8	5152.1	5314.2
47.5°	7991.5	7965.7	8050.4	7612.2	6617.8	5921.8	5837.1	5586.7	5741.4	5848.1	6117.0
50°	8525.5	8532.8	8562.3	8205.1	7501.7	6706.2	6599.4	6264.3	6485.3	6709.9	7089.2
52.5°	9221.5	9170.0	9133.1	8897.4	8492.3	7523.8	7453.8	7070.8	7380.2	7645.3	8149.8
55°	9829.2	9796.0	9773.9	9762.9	9320.9	8426.0	8352.4	7954.7	8400.3	8588.1	9332.0
57.5°	10477.3	10458.9	10576.8	10764.6	10587.8	9343.0	9265.7	8882.7	9379.9	9512.4	10613.6
60°	10952.4	10963.4	11287.5	11766.3	11644.7	10337.4	10245.3	9906.5	10333.7	10451.5	11895.2
62.5°	10956.1	11066.6	11817.8	12675.9	12815.8	11482.7	11375.9	11007.6	11313.3	11313.3	13044.2
65°	9910.2	10035.4	11722.1	12900.5	14001.7	12845.3	12742.2	12164.0	12278.2	12123.5	14123.2
67.5°	8868.0	9015.3	10602.5	12919.0	14834.0	14303.7	14182.1	13320.4	13125.2	12734.8	14878.2
70°	8175.6	8278.7	9604.5	12679.6	15334.8	15828.3	15736.2	14417.8	13791.8	13246.7	14719.8
72.5°	6883.0	6846.2	8113.0	11541.6	15614.7	17559.2	17481.8	15611.0	14369.9	13003.7	12554.4
75°	3995.7	4039.9	5034.3	8455.5	14075.3	18461.4	18454.1	16631.1	14115.8	11486.4	8650.7
77.5°	1152.7	1185.8	1653.5	3715.9	8901.1	15747.3	16251.8	15209.6	11932.0	8186.7	4485.5
80°	504.5	530.3	718.1	1237.4	3833.7	10285.8	10727.7	10285.8	7196.0	3756.4	1760.3
82.5°	298.3	316.7	467.7	766.0	1837.7	4894.3	5490.9	4794.9	3104.5	1594.6	729.2
85°	169.4	176.8	268.8	486.1	1156.4	1712.5	1922.4	1800.8	1513.6	905.9	383.0
87.5°	77.3	81.0	132.6	228.3	648.2	578.2	600.3	795.5	876.5	552.4	191.5
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°	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6	2894.6
2.5°	2890.9	2879.9	2857.8	2850.4	2839.4	2843.1	2846.7	2846.7	2850.4	2839.4	2839.4
5°	2861.5	2843.1	2821.0	2821.0	2821.0	2850.4	2876.2	2890.9	2898.3	2898.3	2890.9
7.5°	2850.4	2828.3	2802.5	2809.9	2817.3	2854.1	2902.0	2949.9	2964.6	2964.6	2957.2
10°	2872.5	2850.4	2832.0	2843.1	2861.5	2890.9	2927.8	2972.0	3008.8	3012.5	3008.8
12.5°	2924.1	2898.3	2879.9	2902.0	2924.1	2942.5	2960.9	2979.3	3027.2	3034.6	3034.6
15°	3008.8	2983.0	2960.9	2979.3	2986.7	2986.7	2986.7	2986.7	3034.6	3041.9	3041.9
17.5°	3093.5	3071.4	3049.3	3053.0	3030.9	3001.4	2990.4	2986.7	3012.5	3034.6	3038.2
20°	3174.5	3156.1	3134.0	3097.2	3041.9	2986.7	2968.3	2968.3	2983.0	3016.1	3016.1
22.5°	3262.9	3240.8	3204.0	3119.3	3027.2	2949.9	2931.4	2942.5	2960.9	3005.1	3001.4
25°	3362.3	3332.9	3270.2	3111.9	2979.3	2887.2	2890.9	2924.1	2957.2	3005.1	3005.1
27.5°	3472.8	3432.3	3307.1	3053.0	2872.5	2784.1	2817.3	2894.6	2942.5	2994.0	3001.4
30°	3594.3	3557.5	3336.5	2949.9	2699.4	2618.4	2699.4	2824.6	2898.3	2946.2	2957.2
32.5°	3741.6	3712.2	3362.3	2817.3	2474.8	2404.8	2522.7	2677.3	2795.2	2850.4	2861.5
35°	3925.8	3896.3	3395.5	2666.3	2264.9	2191.2	2298.0	2456.4	2611.0	2681.0	2703.1
37.5°	4165.1	4121.0	3424.9	2504.2	2088.1	2003.4	2055.0	2198.6	2338.5	2434.3	2460.1
40°	4470.8	4400.8	3450.7	2320.1	1933.4	1837.7	1856.1	1926.1	2007.1	2091.8	2124.9
42.5°	4901.7	4761.7	3454.4	2124.9	1775.1	1686.7	1679.3	1701.4	1701.4	1701.4	1712.5
45°	5502.0	5236.8	3461.8	1940.8	1613.0	1521.0	1498.9	1491.5	1436.3	1329.5	1322.1
47.5°	6260.6	5859.2	3494.9	1786.1	1443.6	1362.6	1333.1	1303.7	1200.6	1090.1	1068.0
50°	7232.9	6581.0	3561.2	1638.8	1300.0	1244.8	1207.9	1138.0	1023.8	939.1	917.0
52.5°	8352.4	7439.1	3623.8	1484.1	1193.2	1156.4	1112.2	1027.5	905.9	854.4	847.0
55°	9637.7	8396.6	3749.0	1347.9	1101.1	1075.4	1034.8	953.8	861.8	824.9	821.2
57.5°	10952.4	9468.3	3925.8	1226.3	1012.7	998.0	998.0	928.0	869.1	854.4	854.4
60°	12219.2	10388.9	3789.5	1112.2	931.7	939.1	1009.1	990.7	946.5	964.9	975.9
62.5°	13202.5	10930.3	3075.1	1020.1	872.8	939.1	1119.5	1119.5	1068.0	1060.6	1060.6
65°	13622.4	10922.9	2161.8	950.1	850.7	1031.2	1248.4	1189.5	1053.3	1001.7	990.7
67.5°	13515.6	10444.2	1491.5	902.3	843.3	1126.9	1307.4	1141.6	987.0	942.8	909.6
70°	12576.5	9431.4	1149.0	858.1	832.3	1086.4	1288.9	1086.4	935.4	894.9	865.4
72.5°	10145.9	7564.3	953.8	813.9	788.1	1005.4	1226.3	1034.8	894.9	850.7	821.2
75°	6470.5	4758.1	806.5	755.0	703.4	902.3	1141.6	983.3	850.7	791.8	769.7
77.5°	3111.9	2051.3	703.4	685.0	633.4	836.0	1056.9	917.0	791.8	743.9	729.2
80°	1259.5	939.1	611.3	615.0	581.9	795.5	998.0	854.4	732.9	681.3	655.5
82.5°	655.5	545.0	515.6	530.3	530.3	758.6	953.8	802.8	681.3	659.2	574.5
85°	353.5	338.8	397.7	427.2	460.3	685.0	887.5	747.6	622.4	534.0	515.6
87.5°	173.1	221.0	224.6	257.8	320.4	548.7	747.6	626.1	519.3	430.9	423.5
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)