

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: P237352

Luminaire Tested: **ARCH-L-AF72-190-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-190-D-U-T4W-7050
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: 23195 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

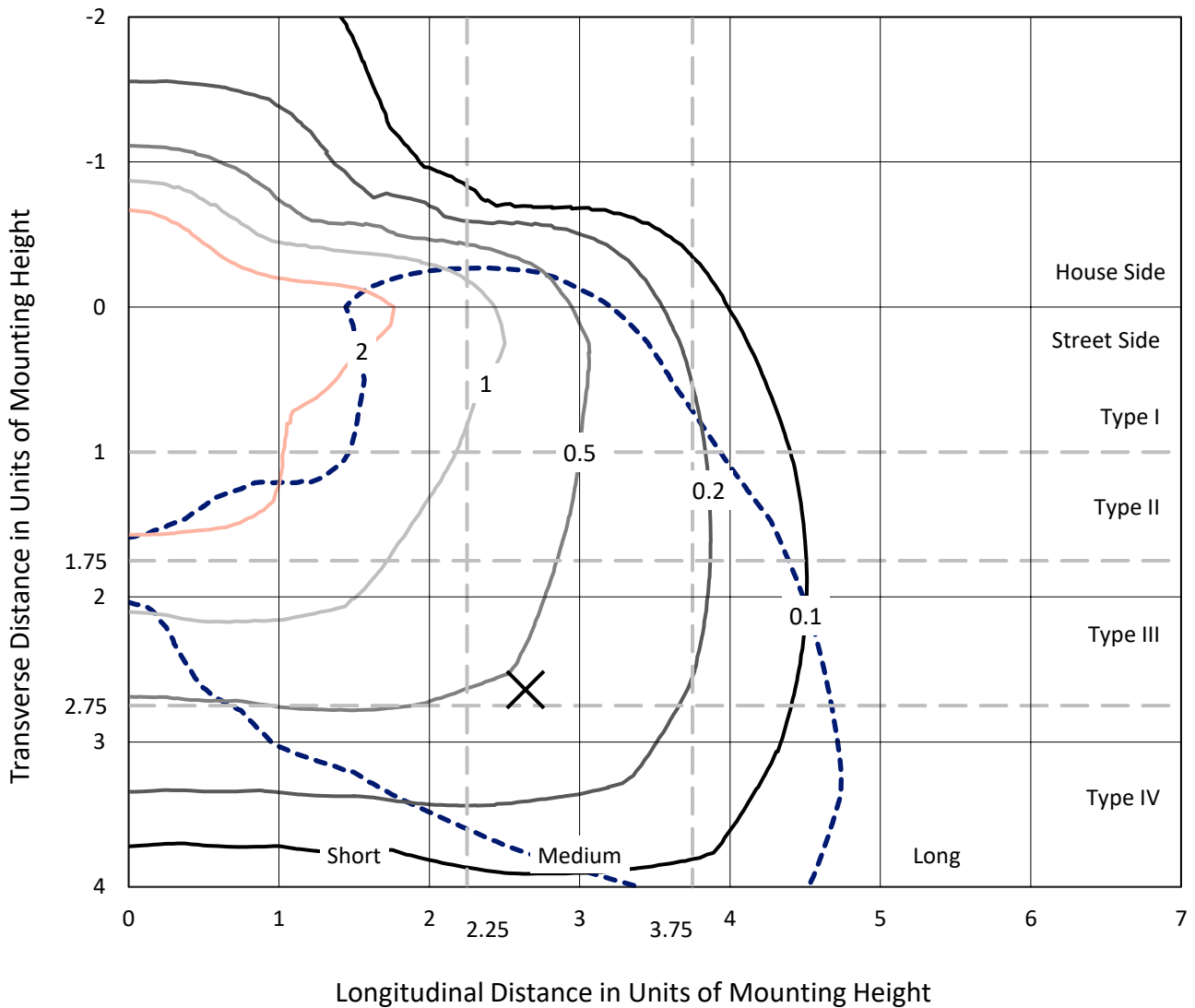
Input Watts (W): 189
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

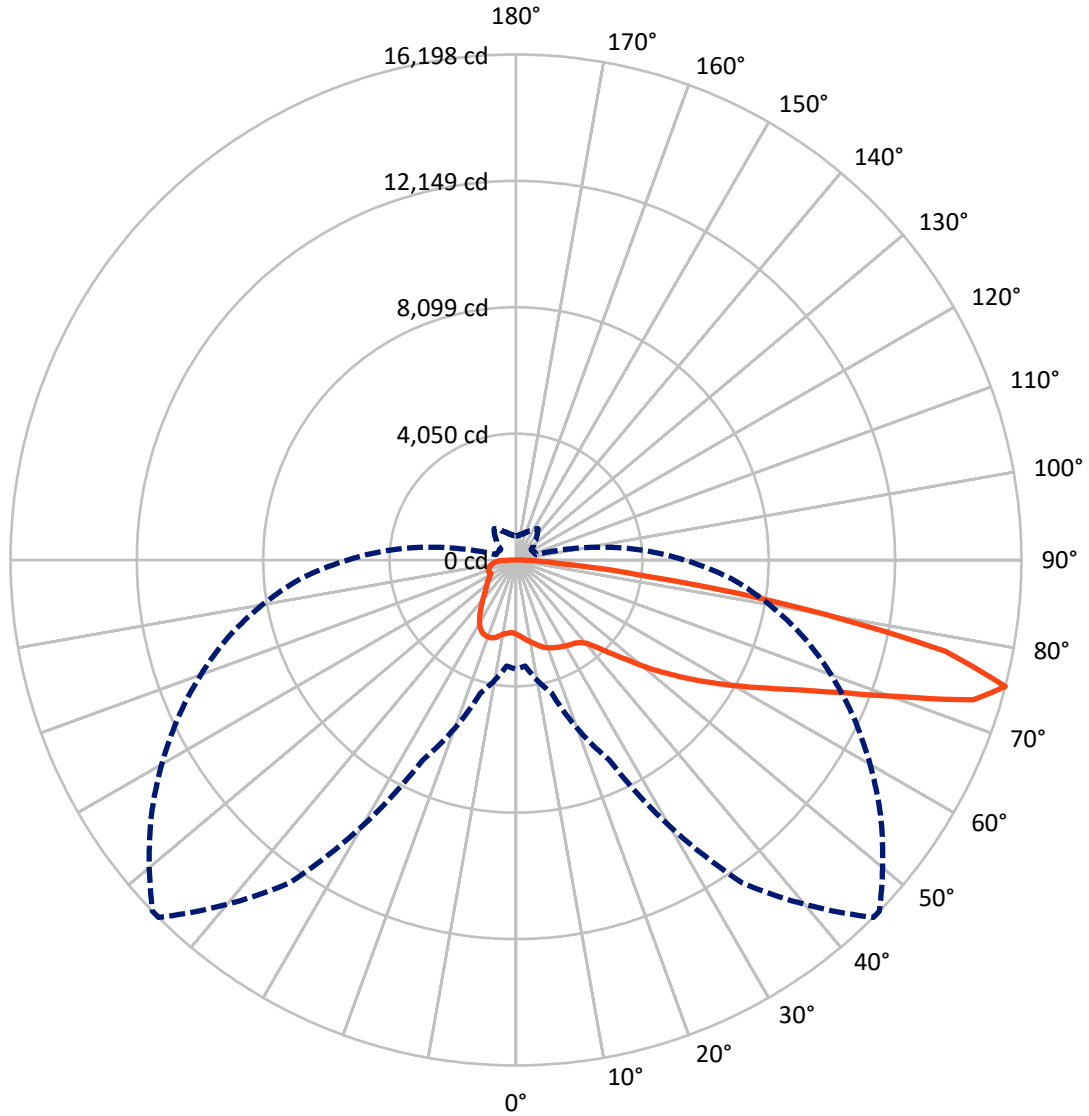
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

REPORT NUMBER: P237352
CATALOG NUMBER: ARCH-L-AF72-190-D-U-T4W-7050

Luminous Intensity Polar Plot



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

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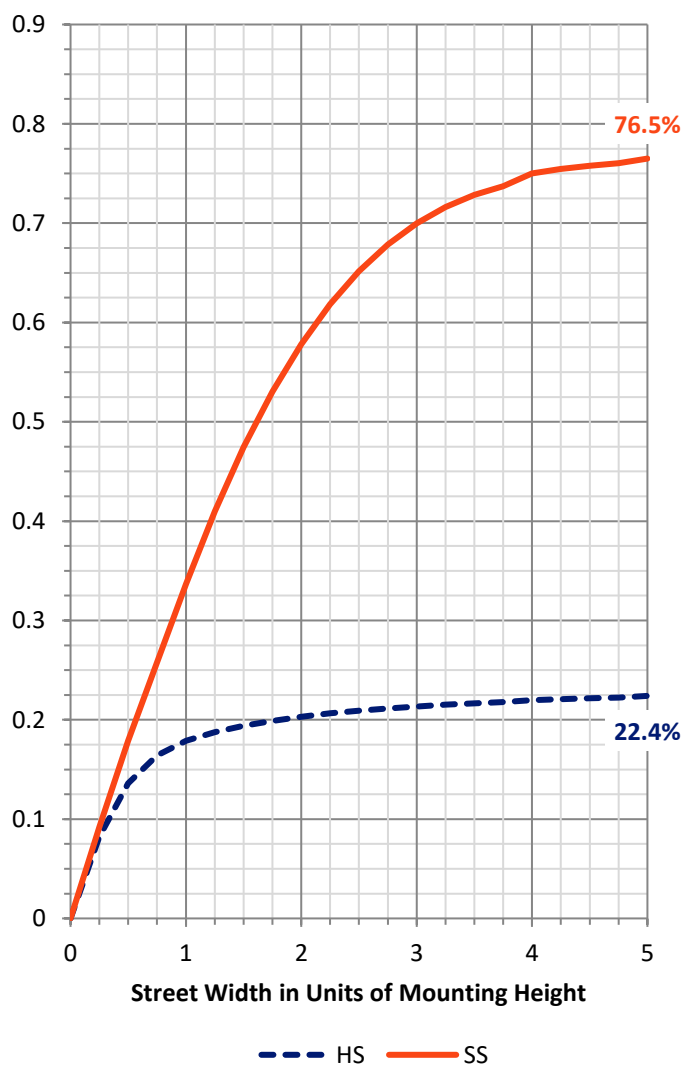
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5373.3	0.0	5373.3
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	17821.7	0.0	17821.7
	% Fixture	76.8	0.0	76.8
Total	Lumens	23195.0	0.0	23195.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.0
10°-20°	763.6	3.3
20°-30°	1310.4	5.6
30°-40°	1832.7	7.9
40°-50°	2688.4	11.6
50°-60°	4187.8	18.1
60°-70°	6025.9	26.0
70°-80°	5249.2	22.6
80°-90°	901.5	3.9
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°	23195.0	100.0
0°-180°	23195.0	100.0

Coefficient of Utilization

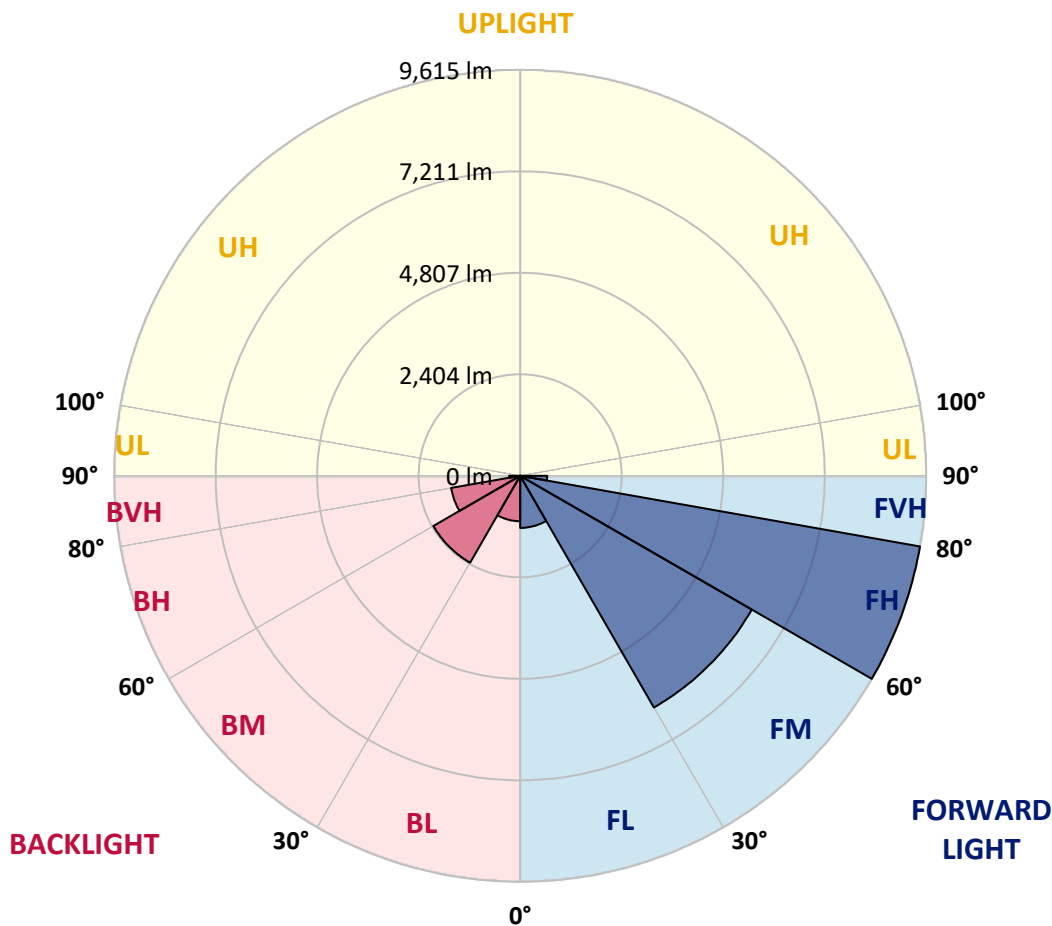


REPORT NUMBER: P237352
 CATALOG NUMBER: ARCH-L-AF72-190-D-U-T4W-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.4	5.3			
FM (30°-60°)	6334.1	27.3			
FH (60°-80°)	9614.5	41.5			G4/12000
FVH (80°-90°)	639.6	2.8			G4/750
BL (0°-30°)	1076.2	4.6	B3/2500		
BM (30°-60°)	2374.7	10.2	B2/2500		
BH (60°-80°)	1660.5	7.2	B3/2500		G3/2500
BVH (80°-90°)	261.9	1.1			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Medium





REPORT NUMBER: P237352

CATALOG NUMBER: ARCH-L-AF72-190-D-U-T4W-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8
2.5°	2495.1	2477.1	2477.1	2463.5	2463.5	2441.0	2432.0	2427.4	2404.9	2391.4	2377.8
5°	2639.5	2617.0	2612.4	2580.9	2567.3	2517.7	2513.2	2481.6	2441.0	2400.4	2368.8
7.5°	2770.4	2756.8	2734.3	2702.7	2662.1	2598.9	2594.4	2544.8	2477.1	2422.9	2377.8
10°	2865.1	2856.1	2824.5	2783.9	2738.8	2675.6	2671.1	2617.0	2535.7	2472.6	2409.4
12.5°	2977.9	2964.4	2923.8	2869.6	2820.0	2761.3	2756.8	2711.7	2621.5	2540.2	2459.0
15°	3086.2	3068.2	3018.5	2964.4	2910.2	2860.6	2860.6	2811.0	2716.2	2621.5	2526.7
17.5°	3140.3	3131.3	3081.7	3023.0	2977.9	2941.8	2937.3	2892.2	2797.4	2698.2	2594.4
20°	3158.4	3162.9	3117.8	3054.6	3023.0	3005.0	3000.5	2968.9	2865.1	2770.4	2671.1
22.5°	3153.9	3167.4	3131.3	3063.6	3054.6	3054.6	3054.6	3018.5	2937.3	2842.6	2743.3
25°	3171.9	3190.0	3162.9	3081.7	3081.7	3099.7	3099.7	3081.7	3009.5	2928.3	2829.0
27.5°	3235.1	3248.6	3226.1	3113.3	3117.8	3144.9	3140.3	3144.9	3099.7	3023.0	2923.8
30°	3311.8	3329.8	3302.8	3162.9	3158.4	3185.5	3185.5	3208.0	3176.4	3095.2	3014.0
32.5°	3519.3	3514.8	3429.1	3217.0	3203.5	3230.6	3230.6	3253.1	3235.1	3171.9	3095.2
35°	4137.5	4069.8	3880.3	3393.0	3257.7	3271.2	3271.2	3311.8	3320.8	3271.2	3203.5
37.5°	4769.2	4746.6	4602.2	3862.3	3456.2	3356.9	3352.4	3411.1	3451.7	3411.1	3365.9
40°	5405.4	5387.3	5355.7	4489.4	3871.3	3510.3	3496.8	3546.4	3618.6	3591.5	3564.5
42.5°	5996.4	5987.4	6019.0	5107.6	4399.2	3839.7	3799.1	3740.4	3844.2	3835.2	3835.2
45°	6461.2	6483.7	6501.8	5685.1	4972.2	4263.8	4214.2	4015.7	4155.5	4191.6	4218.7
47.5°	6722.9	6740.9	6804.1	6249.1	5545.2	4755.6	4719.5	4394.7	4579.7	4688.0	4764.7
50°	7097.4	7047.7	7101.9	6799.6	6235.6	5396.3	5297.1	4904.5	5139.2	5328.7	5509.1
52.5°	7458.3	7377.1	7422.2	7435.8	7020.7	6023.5	5919.7	5504.6	5797.9	6095.7	6416.0
55°	7783.2	7778.7	7823.8	8053.9	7778.7	6695.8	6578.5	6167.9	6592.0	6912.4	7453.8
57.5°	8044.9	8090.0	8288.5	8771.3	8654.0	7426.7	7295.9	6939.4	7440.3	7760.6	8658.5
60°	8351.7	8423.9	8753.3	9380.4	9452.6	8193.8	8058.4	7801.2	8311.1	8635.9	10052.7
62.5°	8455.5	8559.2	9236.0	10021.1	10287.3	9033.0	8911.2	8739.7	9227.0	9520.3	11442.4
65°	7765.1	7963.7	9502.2	10350.5	11185.2	10043.7	9939.9	9791.0	10138.4	10332.4	12385.4
67.5°	7575.6	7665.9	8983.4	10824.3	12029.0	11343.1	11239.4	10982.2	10991.2	10910.0	12692.2
70°	7309.4	7408.7	8450.9	11180.7	13238.2	13120.9	12994.5	12236.5	11771.8	11280.0	12087.6
72.5°	6226.5	6195.0	7282.3	10219.6	13820.2	15322.7	15173.8	13585.6	12349.3	10959.6	10201.6
75°	3496.8	3406.5	4417.2	7070.3	12620.0	16198.0	16193.5	14266.9	11943.2	9547.4	6943.9
77.5°	1015.2	988.1	1457.4	2964.4	8496.1	14072.9	14244.3	12868.2	9967.0	6858.2	3812.6
80°	478.3	487.3	627.2	979.1	3627.6	9082.6	9574.4	8473.5	5955.8	3162.9	1574.7
82.5°	302.3	306.8	428.6	631.7	1534.1	4124.0	4530.0	3812.6	2359.8	1367.1	694.8
85°	189.5	189.5	284.3	415.1	915.9	1317.5	1430.3	1299.5	1010.7	744.5	379.0
87.5°	103.8	103.8	171.5	239.1	500.8	424.1	437.7	518.9	631.7	455.7	189.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P237352

CATALOG NUMBER: ARCH-L-AF72-190-D-U-T4W-7050

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8	2377.8
2.5°	2373.3	2364.3	2350.7	2346.2	2341.7	2337.2	2341.7	2350.7	2341.7	2341.7	2346.2
5°	2359.8	2350.7	2332.7	2332.7	2337.2	2341.7	2364.3	2377.8	2382.3	2382.3	2382.3
7.5°	2359.8	2346.2	2332.7	2337.2	2346.2	2364.3	2400.4	2422.9	2441.0	2445.5	2445.5
10°	2382.3	2364.3	2355.3	2364.3	2391.4	2404.9	2441.0	2477.1	2499.6	2508.7	2508.7
12.5°	2422.9	2404.9	2404.9	2422.9	2459.0	2477.1	2508.7	2535.7	2562.8	2576.3	2576.3
15°	2490.6	2468.1	2472.6	2504.2	2544.8	2562.8	2585.4	2594.4	2617.0	2635.0	2635.0
17.5°	2553.8	2531.2	2540.2	2576.3	2603.4	2612.4	2626.0	2621.5	2630.5	2644.0	2648.5
20°	2626.0	2603.4	2607.9	2630.5	2635.0	2626.0	2626.0	2612.4	2607.9	2630.5	2639.5
22.5°	2698.2	2675.6	2671.1	2657.6	2635.0	2612.4	2598.9	2585.4	2576.3	2598.9	2607.9
25°	2783.9	2752.3	2729.8	2671.1	2612.4	2571.8	2553.8	2544.8	2540.2	2562.8	2571.8
27.5°	2878.6	2847.1	2779.4	2653.0	2558.3	2490.6	2477.1	2477.1	2486.1	2499.6	2508.7
30°	2968.9	2937.3	2815.5	2612.4	2463.5	2364.3	2350.7	2364.3	2386.8	2400.4	2413.9
32.5°	3059.1	3027.5	2838.0	2549.3	2323.7	2197.3	2188.3	2210.9	2247.0	2256.0	2265.0
35°	3181.0	3149.4	2865.1	2459.0	2147.7	2012.3	2003.3	2016.9	2048.4	2062.0	2075.5
37.5°	3352.4	3334.4	2905.7	2359.8	1985.3	1836.4	1809.3	1800.3	1818.3	1813.8	1831.9
40°	3578.0	3591.5	2977.9	2228.9	1827.4	1673.9	1615.3	1588.2	1570.2	1534.1	1552.1
42.5°	3907.4	3916.4	3059.1	2080.0	1692.0	1520.5	1443.8	1394.2	1358.1	1299.5	1308.5
45°	4390.2	4313.5	3153.9	1922.1	1570.2	1398.7	1308.5	1249.8	1200.2	1150.6	1155.1
47.5°	5030.9	4796.2	3257.7	1791.3	1448.3	1299.5	1218.2	1150.6	1091.9	1051.3	1055.8
50°	5820.5	5396.3	3361.4	1669.4	1326.5	1222.7	1150.6	1078.4	1019.7	979.1	974.6
52.5°	6862.7	6118.3	3429.1	1534.1	1204.7	1155.1	1091.9	1024.2	952.0	902.4	897.9
55°	7945.6	6957.5	3487.8	1371.6	1087.4	1078.4	1046.8	970.1	884.3	821.2	812.2
57.5°	9136.8	7855.4	3532.9	1213.7	997.1	1015.2	1006.2	915.9	821.2	762.5	758.0
60°	10219.6	8784.8	3388.5	1073.9	915.9	952.0	961.1	884.3	834.7	848.3	852.8
62.5°	11311.5	9502.2	2838.0	970.1	861.8	911.4	988.1	983.6	961.1	983.6	988.1
65°	11704.1	9651.1	2012.3	884.3	807.6	929.5	1073.9	1064.8	961.1	920.4	911.4
67.5°	11483.0	9209.0	1353.6	816.7	767.0	952.0	1164.1	1064.8	925.0	870.8	852.8
70°	10431.7	8121.6	992.6	749.0	730.9	947.5	1213.7	1060.3	906.9	848.3	825.7
72.5°	8320.1	6267.1	798.6	685.8	676.8	925.0	1240.8	1051.3	888.9	825.7	798.6
75°	5387.3	3898.4	672.3	622.7	595.6	888.9	1227.3	1024.2	866.3	785.1	767.0
77.5°	2499.6	1678.5	573.0	550.5	518.9	834.7	1186.7	970.1	816.7	740.0	717.4
80°	1164.1	794.1	482.8	478.3	464.7	789.6	1132.5	906.9	758.0	694.8	658.7
82.5°	622.7	478.3	392.5	392.5	406.1	735.5	1064.8	830.2	681.3	649.7	555.0
85°	329.4	275.2	284.3	306.8	347.4	649.7	974.6	749.0	595.6	496.3	482.8
87.5°	166.9	176.0	176.0	207.6	266.2	527.9	803.1	618.1	505.3	406.1	397.1
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)