

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: P237313

Luminaire Tested: **ARCH-L-AF72-200-D-U-T4W-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237313
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T4W-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23520.3 lumens
Efficiency: N/A
Efficacy: 117.0 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

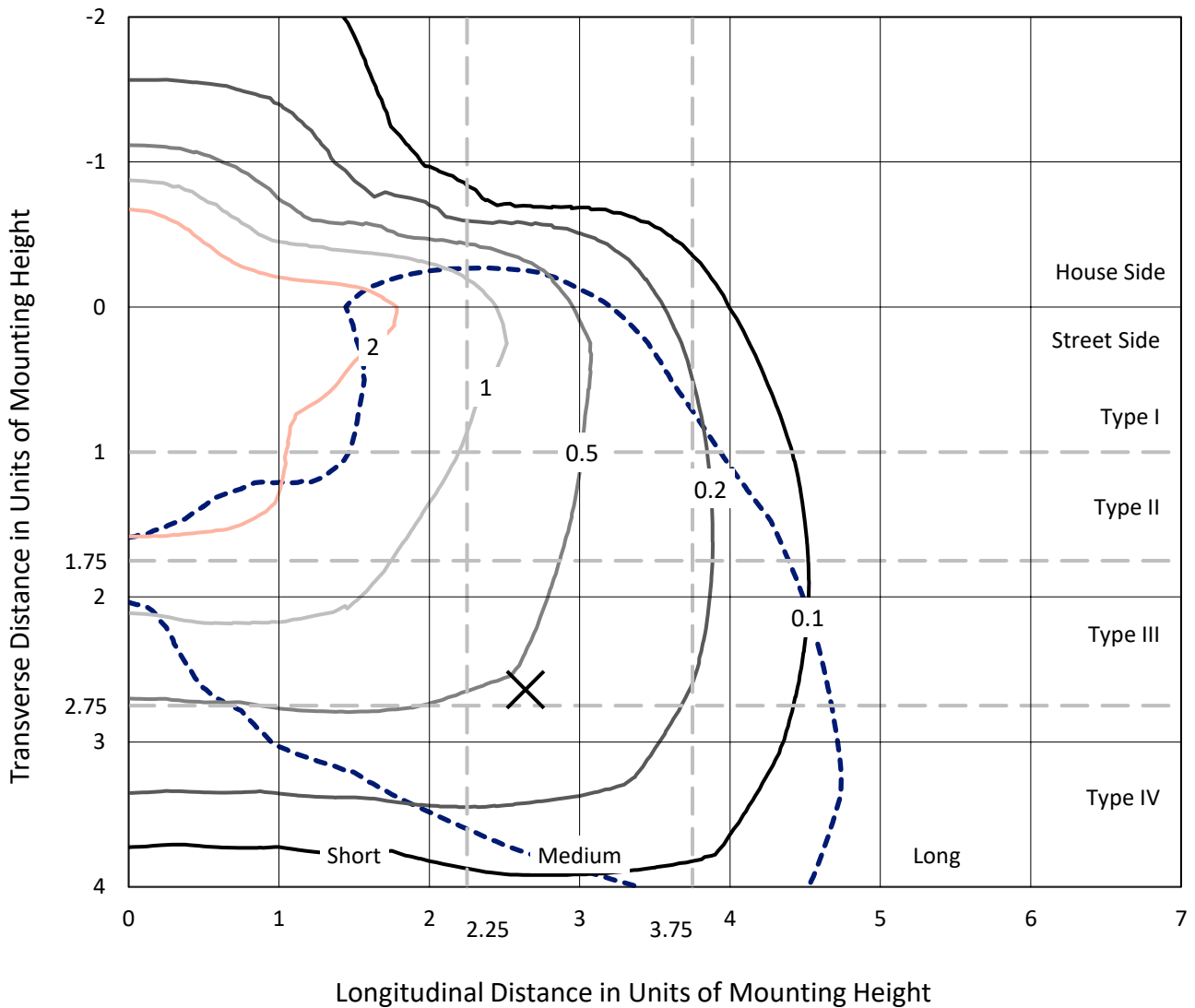
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

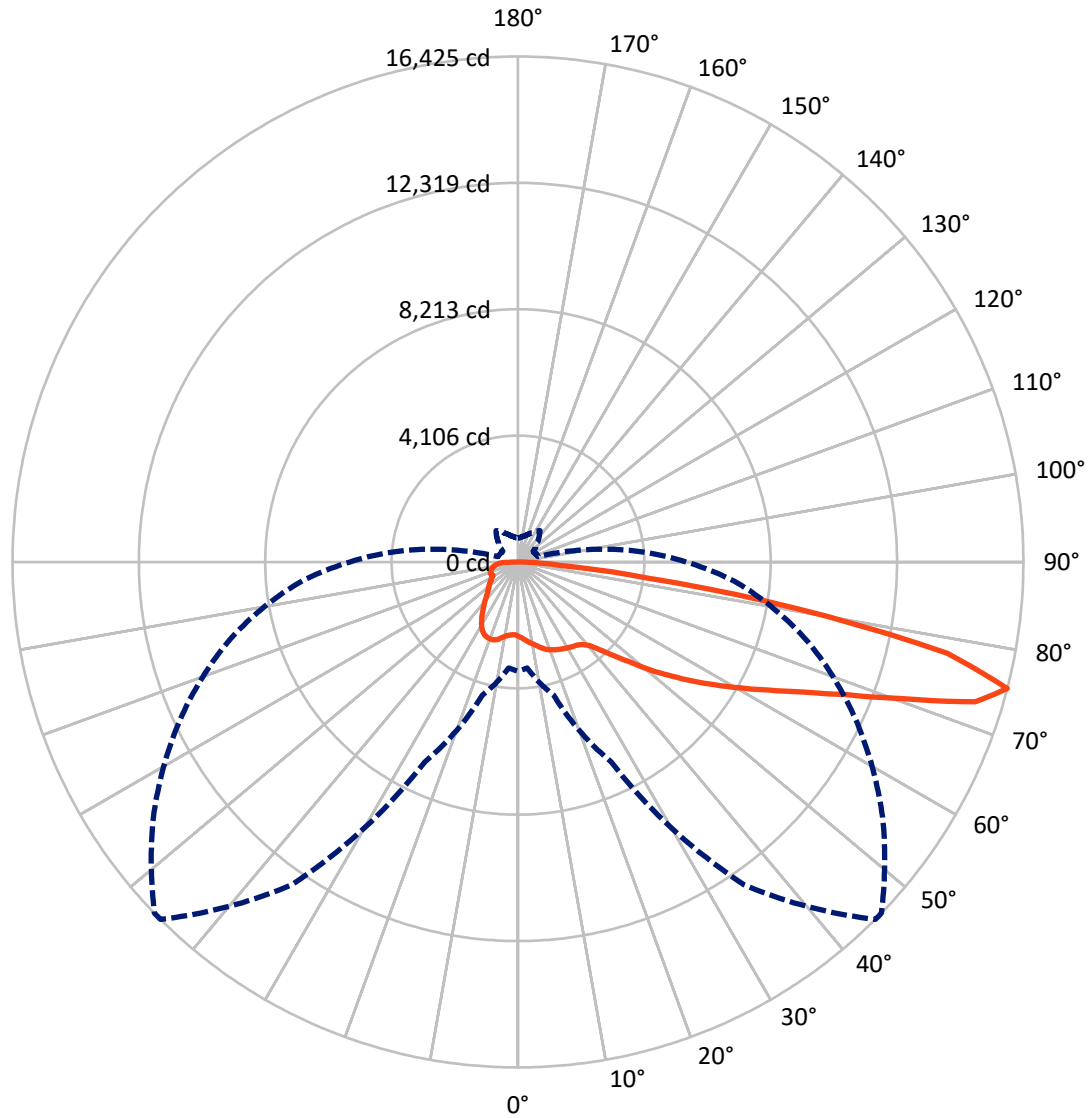
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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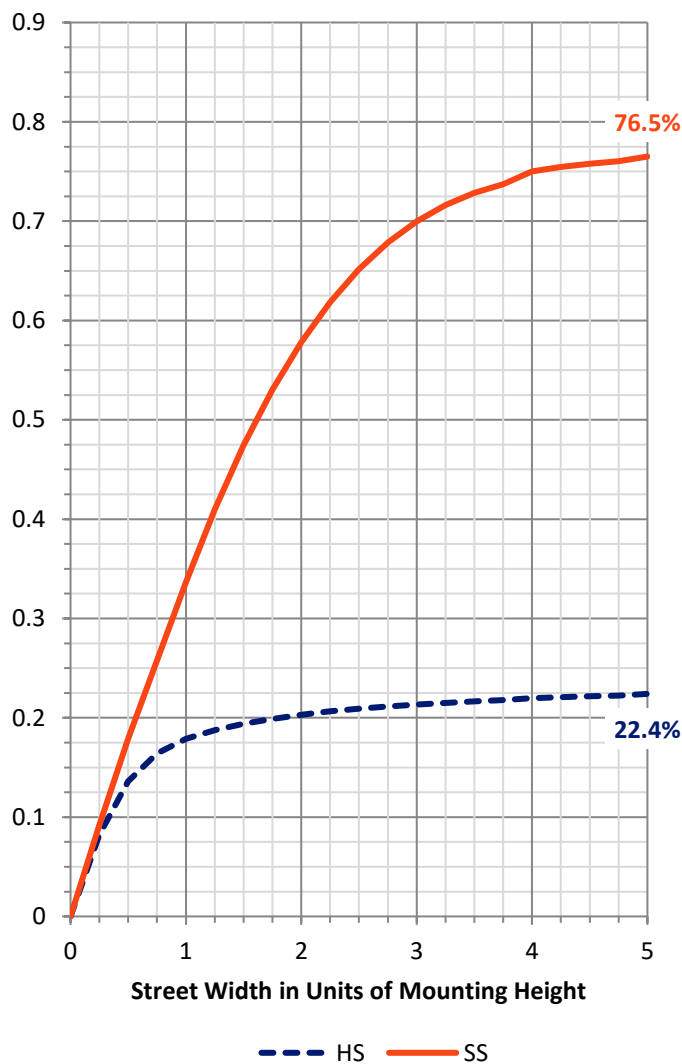
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5448.7	0.0	5448.7
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	18071.6	0.0	18071.6
	% Fixture	76.8	0.0	76.8
Total	Lumens	23520.3	0.0	23520.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.9	1.0
10°-20°	774.3	3.3
20°-30°	1328.7	5.6
30°-40°	1858.4	7.9
40°-50°	2726.1	11.6
50°-60°	4246.5	18.1
60°-70°	6110.4	26.0
70°-80°	5322.8	22.6
80°-90°	914.1	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°	23520.3	100.0
0°-180°	23520.3	100.0



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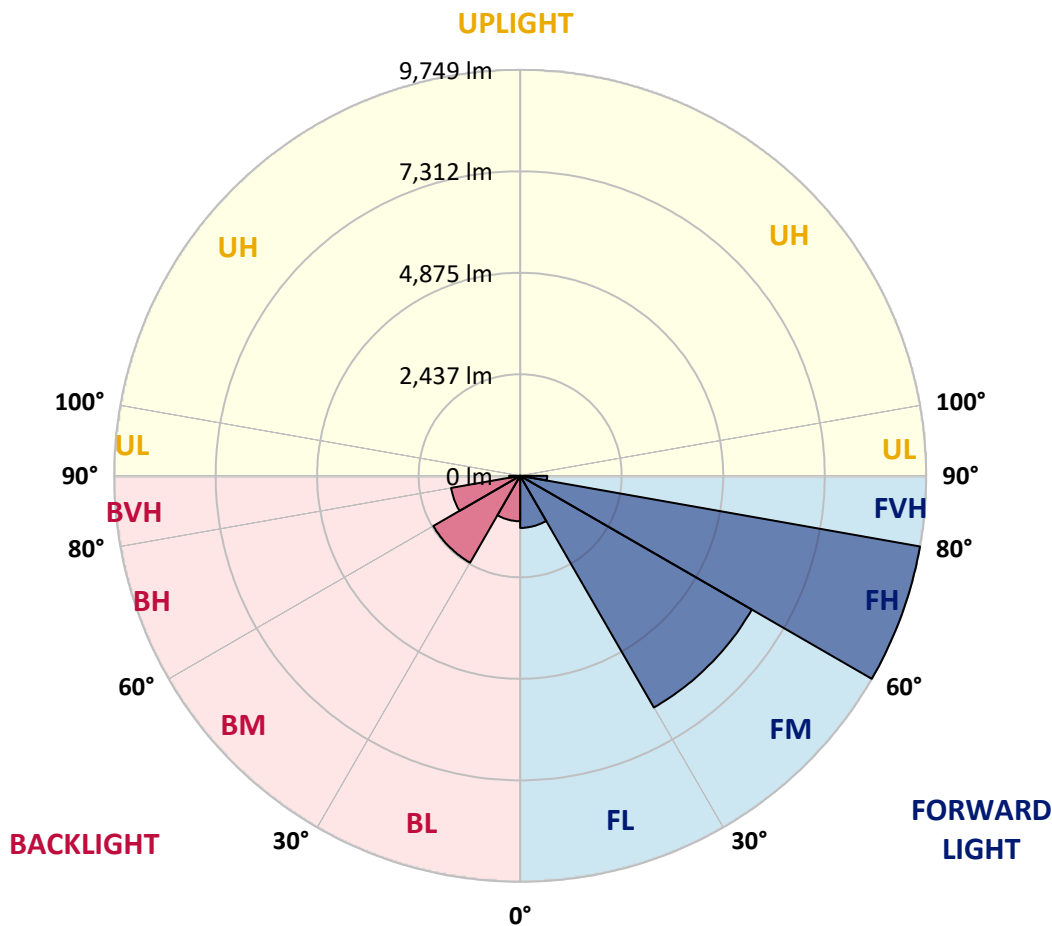
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.7	5.3			
FM (30°-60°)	6422.9	27.3			
FH (60°-80°)	9749.4	41.5			G4/12000
FVH (80°-90°)	648.6	2.8			G4/750
BL (0°-30°)	1091.3	4.6	B3/2500		
BM (30°-60°)	2408.0	10.2	B2/2500		
BH (60°-80°)	1683.8	7.2	B3/2500		G3/2500
BVH (80°-90°)	265.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2530.1	2511.8	2511.8	2498.1	2498.1	2475.2	2466.1	2461.5	2438.5	2424.9	2411.2
5°	2676.6	2653.7	2649.1	2617.1	2603.3	2553.0	2548.4	2516.3	2475.2	2434.1	2401.9
7.5°	2809.2	2795.5	2772.6	2740.5	2699.4	2635.4	2630.8	2580.4	2511.8	2456.9	2411.2
10°	2905.3	2896.1	2864.1	2822.9	2777.2	2713.1	2708.5	2653.7	2571.3	2507.3	2443.1
12.5°	3019.7	3005.9	2964.8	2909.9	2859.6	2800.1	2795.5	2749.7	2658.2	2575.9	2493.6
15°	3129.5	3111.1	3060.9	3005.9	2951.1	2900.8	2900.8	2850.3	2754.3	2658.2	2562.1
17.5°	3184.4	3175.2	3125.0	3065.4	3019.7	2983.1	2978.5	2932.7	2836.7	2736.0	2630.8
20°	3202.7	3207.3	3161.5	3097.5	3065.4	3047.1	3042.6	3010.5	2905.3	2809.2	2708.5
22.5°	3198.1	3211.7	3175.2	3106.6	3097.5	3097.5	3097.5	3060.9	2978.5	2882.4	2781.7
25°	3216.4	3234.7	3207.3	3125.0	3125.0	3143.2	3143.2	3125.0	3051.7	2969.3	2868.7
27.5°	3280.5	3294.1	3271.3	3156.9	3161.5	3189.0	3184.4	3189.0	3143.2	3065.4	2964.8
30°	3358.2	3376.5	3349.2	3207.3	3202.7	3230.1	3230.1	3252.9	3221.0	3138.6	3056.3
32.5°	3568.7	3564.1	3477.1	3262.2	3248.4	3275.9	3275.9	3298.7	3280.5	3216.4	3138.6
35°	4195.5	4126.8	3934.8	3440.6	3303.4	3317.1	3317.1	3358.2	3367.4	3317.1	3248.4
37.5°	4836.1	4813.2	4666.8	3916.4	3504.6	3404.0	3399.4	3458.9	3500.1	3458.9	3413.2
40°	5481.1	5462.9	5430.8	4552.4	3925.5	3559.5	3545.8	3596.2	3669.4	3641.9	3614.4
42.5°	6080.5	6071.3	6103.4	5179.2	4460.8	3893.6	3852.4	3792.9	3898.2	3889.0	3889.0
45°	6551.7	6574.6	6592.9	5764.8	5041.9	4323.6	4273.2	4072.0	4213.8	4250.4	4277.8
47.5°	6817.1	6835.5	6899.5	6336.7	5623.0	4822.2	4785.7	4456.2	4643.8	4753.7	4831.5
50°	7196.9	7146.5	7201.5	6895.0	6323.1	5472.0	5371.3	4973.3	5211.2	5403.4	5586.4
52.5°	7562.9	7480.6	7526.4	7540.0	7119.2	6107.9	6002.7	5581.8	5879.2	6181.2	6506.1
55°	7892.4	7887.8	7933.6	8166.8	7887.8	6789.7	6670.8	6254.3	6684.5	7009.3	7558.3
57.5°	8157.7	8203.4	8404.8	8894.2	8775.3	7530.9	7398.2	7036.8	7544.6	7869.4	8780.0
60°	8468.8	8542.0	8876.0	9512.0	9585.2	8308.6	8171.4	7910.6	8427.6	8757.0	10193.7
62.5°	8574.0	8679.2	9365.6	10161.6	10431.5	9159.6	9036.2	8862.2	9356.4	9653.8	11602.9
65°	7874.0	8075.4	9635.5	10495.7	11342.1	10184.5	10079.2	9928.3	10280.6	10477.3	12559.1
67.5°	7681.8	7773.4	9109.4	10976.0	12197.6	11502.2	11397.0	11136.1	11145.3	11062.9	12870.2
70°	7411.9	7512.5	8569.4	11337.5	13423.8	13304.8	13176.7	12408.1	11936.8	11438.2	12257.1
72.5°	6313.9	6281.9	7384.5	10362.9	14014.0	15537.5	15386.6	13776.1	12522.4	11113.3	10344.6
75°	3545.8	3454.3	4479.2	7169.4	12797.0	16425.2	16420.6	14466.9	12110.8	9681.3	7041.3
77.5°	1029.4	1002.0	1477.8	3005.9	8615.2	14270.3	14444.1	13048.7	10106.7	6954.4	3866.1
80°	485.0	494.2	636.0	992.8	3678.5	9210.0	9708.7	8592.3	6039.3	3207.3	1596.8
82.5°	306.6	311.2	434.7	640.6	1555.7	4181.8	4593.6	3866.1	2392.9	1386.3	704.6
85°	192.2	192.2	288.2	420.9	928.8	1336.0	1450.3	1317.6	1024.9	754.9	384.4
87.5°	105.2	105.2	173.8	242.4	507.8	430.1	443.8	526.2	640.6	462.0	192.2
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°	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2	2411.2
2.5°	2406.6	2397.4	2383.7	2379.1	2374.5	2370.0	2374.5	2383.7	2374.5	2374.5	2379.1
5°	2392.9	2383.7	2365.4	2365.4	2370.0	2374.5	2397.4	2411.2	2415.7	2415.7	2415.7
7.5°	2392.9	2379.1	2365.4	2370.0	2379.1	2397.4	2434.1	2456.9	2475.2	2479.7	2479.7
10°	2415.7	2397.4	2388.3	2397.4	2424.9	2438.5	2475.2	2511.8	2534.7	2543.9	2543.9
12.5°	2456.9	2438.5	2438.5	2456.9	2493.6	2511.8	2543.9	2571.3	2598.7	2612.5	2612.5
15°	2525.5	2502.7	2507.3	2539.3	2580.4	2598.7	2621.5	2630.8	2653.7	2671.9	2671.9
17.5°	2589.6	2566.7	2575.9	2612.5	2639.9	2649.1	2662.7	2658.2	2667.3	2681.1	2685.7
20°	2662.7	2639.9	2644.5	2667.3	2671.9	2662.7	2662.7	2649.1	2644.5	2667.3	2676.6
22.5°	2736.0	2713.1	2708.5	2694.8	2671.9	2649.1	2635.4	2621.5	2612.5	2635.4	2644.5
25°	2822.9	2790.9	2768.0	2708.5	2649.1	2607.9	2589.6	2580.4	2575.9	2598.7	2607.9
27.5°	2919.0	2886.9	2818.4	2690.3	2594.2	2525.5	2511.8	2511.8	2520.9	2534.7	2543.9
30°	3010.5	2978.5	2855.0	2649.1	2498.1	2397.4	2383.7	2397.4	2420.3	2434.1	2447.7
32.5°	3102.0	3069.9	2877.8	2585.0	2356.2	2228.2	2218.9	2241.9	2278.5	2287.7	2296.7
35°	3225.6	3193.5	2905.3	2493.6	2177.9	2040.5	2031.4	2045.2	2077.1	2090.9	2104.7
37.5°	3399.4	3381.1	2946.5	2392.9	2013.1	1862.1	1834.7	1825.5	1843.9	1839.3	1857.5
40°	3628.2	3641.9	3019.7	2260.1	1852.9	1697.5	1637.9	1610.5	1592.2	1555.7	1573.9
42.5°	3962.2	3971.3	3102.0	2109.1	1715.7	1541.8	1464.1	1413.7	1377.1	1317.6	1326.9
45°	4451.8	4373.9	3198.1	1949.0	1592.2	1418.3	1326.9	1267.3	1217.0	1166.7	1171.3
47.5°	5101.5	4863.4	3303.4	1816.3	1468.7	1317.6	1235.2	1166.7	1107.3	1066.1	1070.6
50°	5902.0	5472.0	3408.6	1692.9	1345.1	1239.9	1166.7	1093.4	1034.0	992.8	988.2
52.5°	6958.9	6204.1	3477.1	1555.7	1221.6	1171.3	1107.3	1038.6	965.5	915.0	910.4
55°	8057.0	7055.1	3536.7	1390.9	1102.7	1093.4	1061.5	983.7	896.8	832.7	823.6
57.5°	9264.8	7965.5	3582.4	1230.7	1011.0	1029.4	1020.3	928.8	832.7	773.2	768.6
60°	10362.9	8908.0	3435.9	1088.9	928.8	965.5	974.5	896.8	846.4	860.2	864.7
62.5°	11470.1	9635.5	2877.8	983.7	873.8	924.3	1002.0	997.4	974.5	997.4	1002.0
65°	11868.2	9786.5	2040.5	896.8	819.0	942.5	1088.9	1079.8	974.5	933.4	924.3
67.5°	11644.0	9338.1	1372.7	828.0	777.8	965.5	1180.4	1079.8	937.9	883.1	864.7
70°	10577.9	8235.4	1006.6	759.5	741.3	960.8	1230.7	1075.2	919.6	860.2	837.3
72.5°	8436.8	6355.1	809.8	695.4	686.2	937.9	1258.2	1066.1	901.3	837.3	809.8
75°	5462.9	3953.0	681.7	631.4	603.9	901.3	1244.5	1038.6	878.5	796.1	777.8
77.5°	2534.7	1702.0	581.0	558.2	526.2	846.4	1203.3	983.7	828.0	750.4	727.4
80°	1180.4	805.2	489.6	485.0	471.2	800.7	1148.5	919.6	768.6	704.6	668.0
82.5°	631.4	485.0	398.0	398.0	411.8	745.8	1079.8	841.9	690.8	658.9	562.8
85°	334.0	279.0	288.2	311.2	352.3	658.9	988.2	759.5	603.9	503.2	489.6
87.5°	169.3	178.4	178.4	210.5	270.0	535.3	814.4	626.8	512.4	411.8	402.6
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)