

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: P237354

Luminaire Tested: **ARCH-L-AF72-210-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237354
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-AF72-210-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25063 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

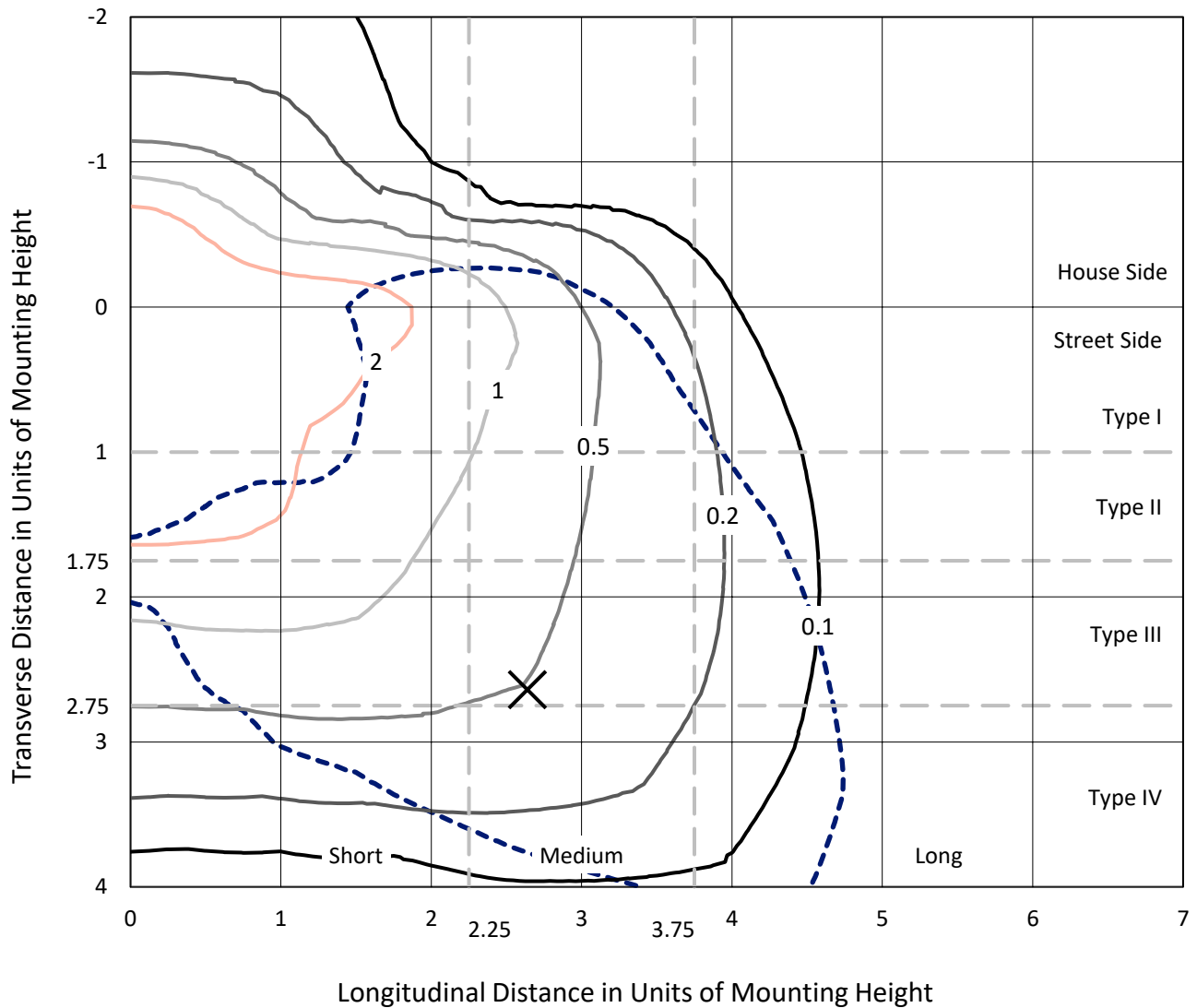
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

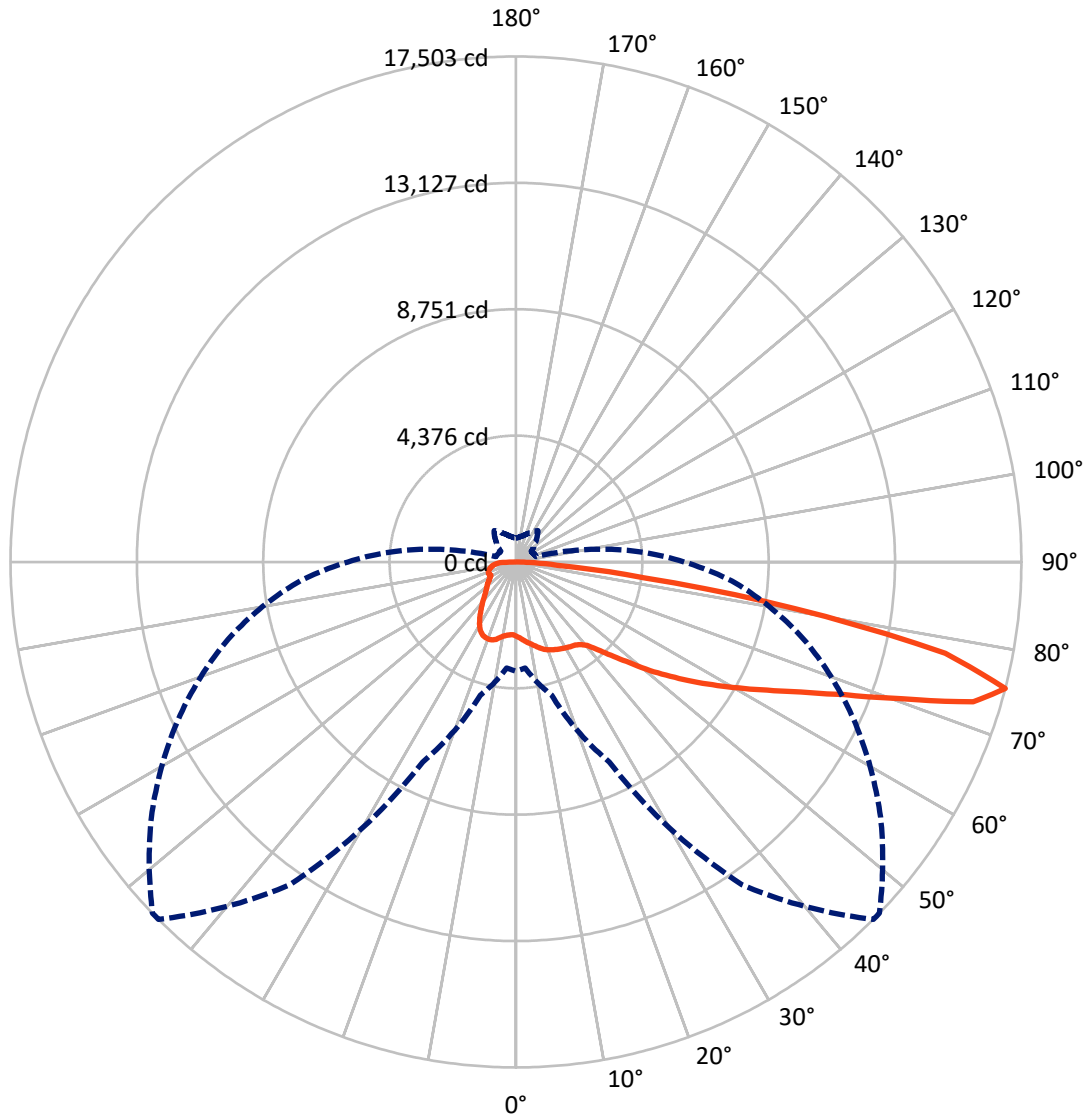
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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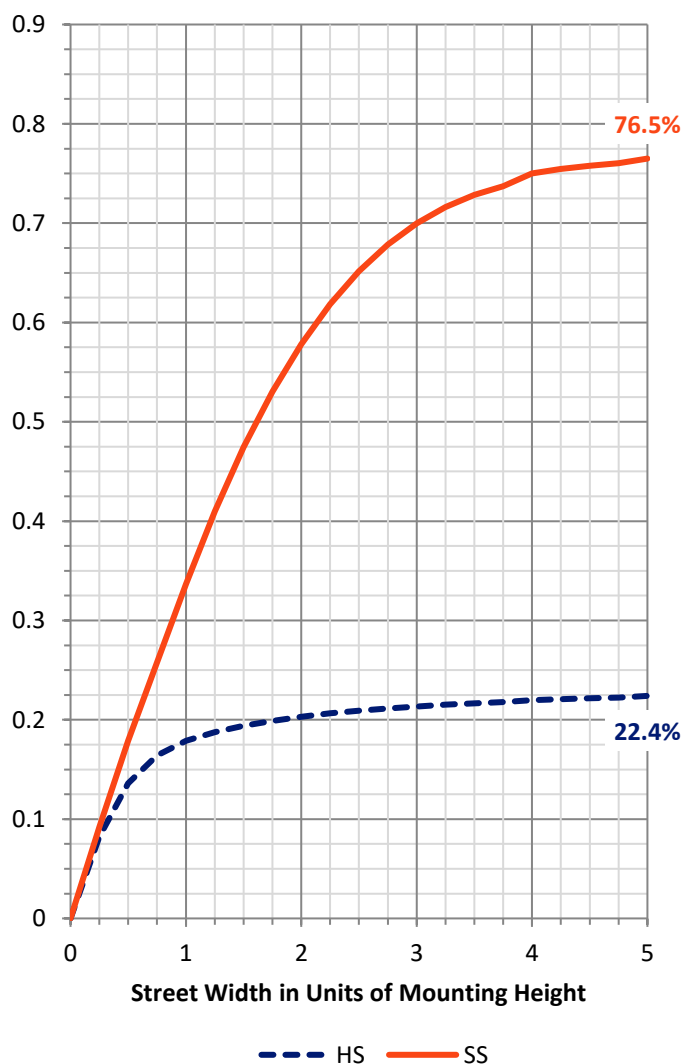
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5806.1	0.0	5806.1
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	19256.9	0.0	19256.9
	% Fixture	76.8	0.0	76.8
Total	Lumens	25063.0	0.0	25063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	1.0
10°-20°	825.1	3.3
20°-30°	1415.9	5.6
30°-40°	1980.3	7.9
40°-50°	2904.9	11.6
50°-60°	4525.0	18.1
60°-70°	6511.2	26.0
70°-80°	5671.9	22.6
80°-90°	974.1	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°	25063.0	100.0
0°-180°	25063.0	100.0

Coefficient of Utilization



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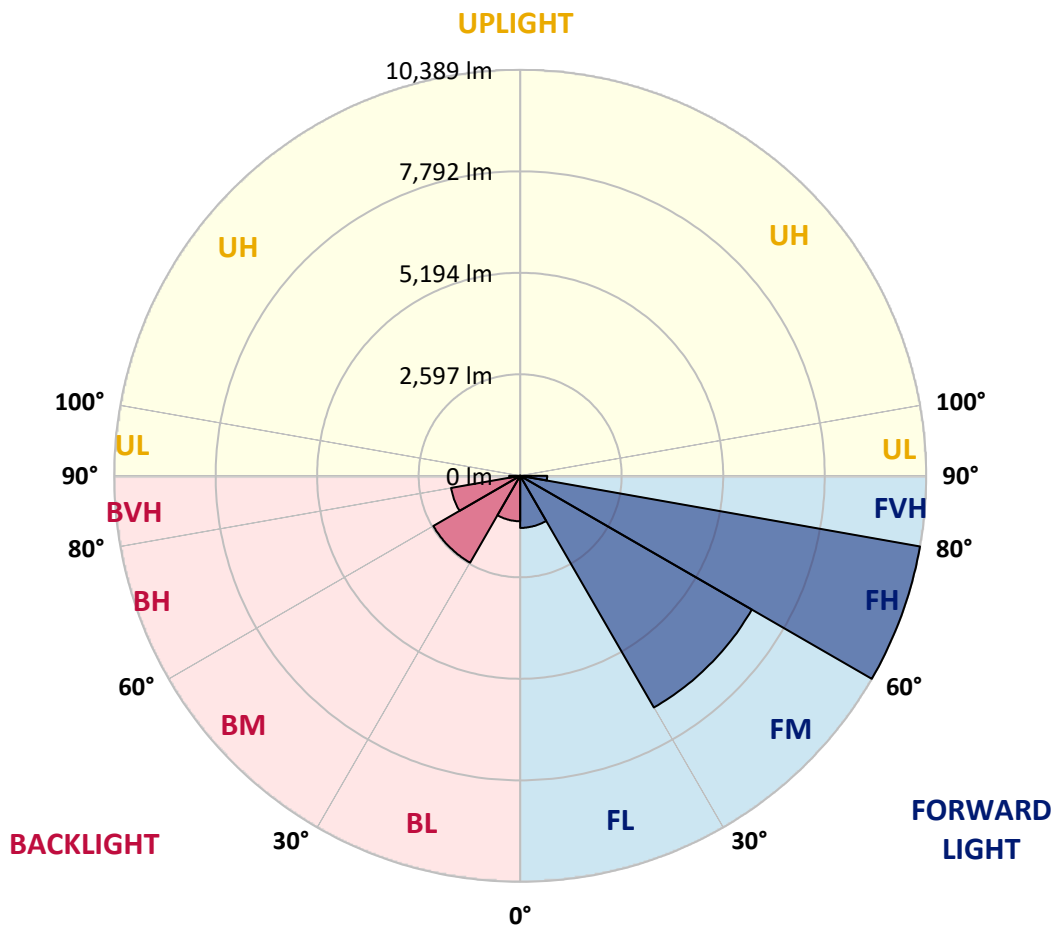
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1332.8	5.3			
FM (30°-60°)	6844.2	27.3			
FH (60°-80°)	10388.8	41.5			G4/12000
FVH (80°-90°)	691.1	2.8			G4/750
BL (0°-30°)	1162.9	4.6	B3/2500		
BM (30°-60°)	2566.0	10.2	B3/5000		
BH (60°-80°)	1794.2	7.2	B3/2500		G3/2500
BVH (80°-90°)	283.0	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°	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3
2.5°	2696.1	2676.6	2676.6	2661.9	2661.9	2637.6	2627.8	2622.9	2598.6	2583.9	2569.3
5°	2852.1	2827.7	2822.8	2788.7	2774.1	2720.4	2715.6	2681.4	2637.6	2593.7	2559.6
7.5°	2993.5	2978.8	2954.5	2920.3	2876.5	2808.2	2803.3	2749.7	2676.6	2618.1	2569.3
10°	3095.9	3086.1	3052.0	3008.1	2959.3	2891.1	2886.2	2827.7	2740.0	2671.7	2603.4
12.5°	3217.7	3203.1	3159.2	3100.7	3047.1	2983.7	2978.8	2930.1	2832.6	2744.8	2657.1
15°	3334.7	3315.2	3261.6	3203.1	3144.6	3091.0	3091.0	3037.3	2935.0	2832.6	2730.2
17.5°	3393.2	3383.5	3329.9	3266.5	3217.7	3178.7	3173.9	3125.1	3022.7	2915.5	2803.3
20°	3412.7	3417.6	3368.9	3300.6	3266.5	3247.0	3242.1	3208.0	3095.9	2993.5	2886.2
22.5°	3407.9	3422.5	3383.5	3310.4	3300.6	3300.6	3300.6	3261.6	3173.9	3071.5	2964.2
25°	3427.4	3446.9	3417.6	3329.9	3329.9	3349.4	3349.4	3329.9	3251.9	3164.1	3056.8
27.5°	3495.6	3510.3	3485.9	3364.0	3368.9	3398.1	3393.2	3398.1	3349.4	3266.5	3159.2
30°	3578.5	3598.0	3568.8	3417.6	3412.7	3442.0	3442.0	3466.4	3432.3	3344.5	3256.7
32.5°	3802.8	3797.9	3705.3	3476.1	3461.5	3490.8	3490.8	3515.1	3495.6	3427.4	3344.5
35°	4470.7	4397.6	4192.8	3666.3	3520.0	3534.6	3534.6	3578.5	3588.3	3534.6	3461.5
37.5°	5153.3	5128.9	4972.9	4173.3	3734.5	3627.3	3622.4	3685.8	3729.6	3685.8	3637.0
40°	5840.7	5821.2	5787.0	4851.0	4183.1	3793.0	3778.4	3832.0	3910.0	3880.8	3851.5
42.5°	6479.3	6469.6	6503.7	5518.9	4753.5	4148.9	4105.1	4041.7	4153.8	4144.1	4144.1
45°	6981.5	7005.9	7025.4	6142.9	5372.6	4607.2	4553.6	4339.1	4490.2	4529.2	4558.5
47.5°	7264.3	7283.8	7352.0	6752.4	5991.8	5138.6	5099.6	4748.6	4948.5	5065.5	5148.4
50°	7668.9	7615.3	7673.8	7347.2	6737.7	5830.9	5723.7	5299.5	5553.0	5757.8	5952.8
52.5°	8059.0	7971.2	8020.0	8034.6	7586.1	6508.6	6396.5	5947.9	6264.8	6586.6	6932.8
55°	8410.0	8405.1	8453.9	8702.5	8405.1	7235.0	7108.3	6664.6	7122.9	7469.0	8054.1
57.5°	8692.8	8741.5	8956.0	9477.7	9350.9	8024.8	7883.5	7498.3	8039.5	8385.6	9355.8
60°	9024.3	9102.3	9458.2	10135.9	10213.9	8853.6	8707.4	8429.5	8980.4	9331.4	10862.3
62.5°	9136.4	9248.6	9979.9	10828.2	11115.8	9760.5	9628.8	9443.6	9970.1	10287.0	12363.9
65°	8390.5	8605.0	10267.5	11184.1	12086.0	10852.5	10740.4	10579.5	10954.9	11164.6	13382.9
67.5°	8185.7	8283.2	9706.8	11696.0	12997.7	12256.6	12144.5	11866.6	11876.4	11788.6	13714.4
70°	7898.1	8005.3	9131.5	12081.1	14304.3	14177.5	14041.0	13222.0	12719.8	12188.4	13061.1
72.5°	6728.0	6693.9	7868.8	11042.7	14933.2	16556.7	16395.8	14679.7	13343.9	11842.2	11023.2
75°	3778.4	3680.9	4773.0	7639.7	13636.4	17502.5	17497.7	15415.9	12905.1	10316.3	7503.2
77.5°	1097.0	1067.7	1574.7	3203.1	9180.3	15206.2	15391.5	13904.5	10769.7	7410.5	4119.7
80°	516.8	526.5	677.7	1058.0	3919.8	9814.1	10345.5	9155.9	6435.5	3417.6	1701.5
82.5°	326.6	331.5	463.2	682.5	1657.6	4456.1	4894.9	4119.7	2549.8	1477.2	750.8
85°	204.8	204.8	307.1	448.5	989.7	1423.6	1545.5	1404.1	1092.1	804.4	409.5
87.5°	112.1	112.1	185.3	258.4	541.2	458.3	472.9	560.7	682.5	492.4	204.8
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°	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3	2569.3
2.5°	2564.4	2554.7	2540.1	2535.2	2530.3	2525.4	2530.3	2540.1	2530.3	2530.3	2535.2
5°	2549.8	2540.1	2520.6	2520.6	2525.4	2530.3	2554.7	2569.3	2574.2	2574.2	2574.2
7.5°	2549.8	2535.2	2520.6	2525.4	2535.2	2554.7	2593.7	2618.1	2637.6	2642.4	2642.4
10°	2574.2	2554.7	2544.9	2554.7	2583.9	2598.6	2637.6	2676.6	2700.9	2710.7	2710.7
12.5°	2618.1	2598.6	2598.6	2618.1	2657.1	2676.6	2710.7	2740.0	2769.2	2783.8	2783.8
15°	2691.2	2666.8	2671.7	2705.8	2749.7	2769.2	2793.6	2803.3	2827.7	2847.2	2847.2
17.5°	2759.5	2735.1	2744.8	2783.8	2813.1	2822.8	2837.5	2832.6	2842.3	2857.0	2861.8
20°	2837.5	2813.1	2818.0	2842.3	2847.2	2837.5	2837.5	2822.8	2818.0	2842.3	2852.1
22.5°	2915.5	2891.1	2886.2	2871.6	2847.2	2822.8	2808.2	2793.6	2783.8	2808.2	2818.0
25°	3008.1	2974.0	2949.6	2886.2	2822.8	2779.0	2759.5	2749.7	2744.8	2769.2	2779.0
27.5°	3110.5	3076.4	3003.2	2866.7	2764.3	2691.2	2676.6	2676.6	2686.3	2700.9	2710.7
30°	3208.0	3173.9	3042.2	2822.8	2661.9	2554.7	2540.1	2554.7	2579.1	2593.7	2608.3
32.5°	3305.5	3271.4	3066.6	2754.6	2510.8	2374.3	2364.5	2388.9	2427.9	2437.7	2447.4
35°	3437.1	3403.0	3095.9	2657.1	2320.7	2174.4	2164.7	2179.3	2213.4	2228.0	2242.7
37.5°	3622.4	3602.9	3139.7	2549.8	2145.2	1984.3	1955.0	1945.3	1964.8	1959.9	1979.4
40°	3866.2	3880.8	3217.7	2408.4	1974.5	1808.8	1745.4	1716.1	1696.6	1657.6	1677.1
42.5°	4222.1	4231.8	3305.5	2247.5	1828.3	1643.0	1560.1	1506.5	1467.5	1404.1	1413.9
45°	4743.7	4660.8	3407.9	2076.9	1696.6	1511.4	1413.9	1350.5	1296.8	1243.2	1248.1
47.5°	5436.0	5182.5	3520.0	1935.5	1565.0	1404.1	1316.3	1243.2	1179.8	1136.0	1140.8
50°	6289.2	5830.9	3632.1	1803.9	1433.4	1321.2	1243.2	1165.2	1101.8	1058.0	1053.1
52.5°	7415.4	6611.0	3705.3	1657.6	1301.7	1248.1	1179.8	1106.7	1028.7	975.1	970.2
55°	8585.5	7517.8	3768.7	1482.1	1175.0	1165.2	1131.1	1048.2	955.6	887.3	877.6
57.5°	9872.6	8488.0	3817.4	1311.5	1077.5	1097.0	1087.2	989.7	887.3	823.9	819.1
60°	11042.7	9492.3	3661.4	1160.3	989.7	1028.7	1038.5	955.6	901.9	916.6	921.4
62.5°	12222.5	10267.5	3066.6	1048.2	931.2	984.8	1067.7	1062.8	1038.5	1062.8	1067.7
65°	12646.7	10428.4	2174.4	955.6	872.7	1004.3	1160.3	1150.6	1038.5	994.6	984.8
67.5°	12407.8	9950.6	1462.6	882.4	828.8	1028.7	1257.8	1150.6	999.4	940.9	921.4
70°	11271.8	8775.6	1072.6	809.3	789.8	1023.8	1311.5	1145.7	979.9	916.6	892.2
72.5°	8990.2	6771.9	862.9	741.1	731.3	999.4	1340.7	1136.0	960.4	892.2	862.9
75°	5821.2	4212.3	726.4	672.8	643.5	960.4	1326.1	1106.7	936.1	848.3	828.8
77.5°	2700.9	1813.6	619.2	594.8	560.7	901.9	1282.2	1048.2	882.4	799.6	775.2
80°	1257.8	858.1	521.7	516.8	502.2	853.2	1223.7	979.9	819.1	750.8	711.8
82.5°	672.8	516.8	424.2	424.2	438.8	794.7	1150.6	897.1	736.2	702.1	599.7
85°	355.9	297.4	307.1	331.5	375.4	702.1	1053.1	809.3	643.5	536.3	521.7
87.5°	180.4	190.1	190.1	224.3	287.6	570.4	867.8	667.9	546.0	438.8	429.0
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)