

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: P237075

Luminaire Tested: **ARCH-L-AF72-220-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-220-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25194.1 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

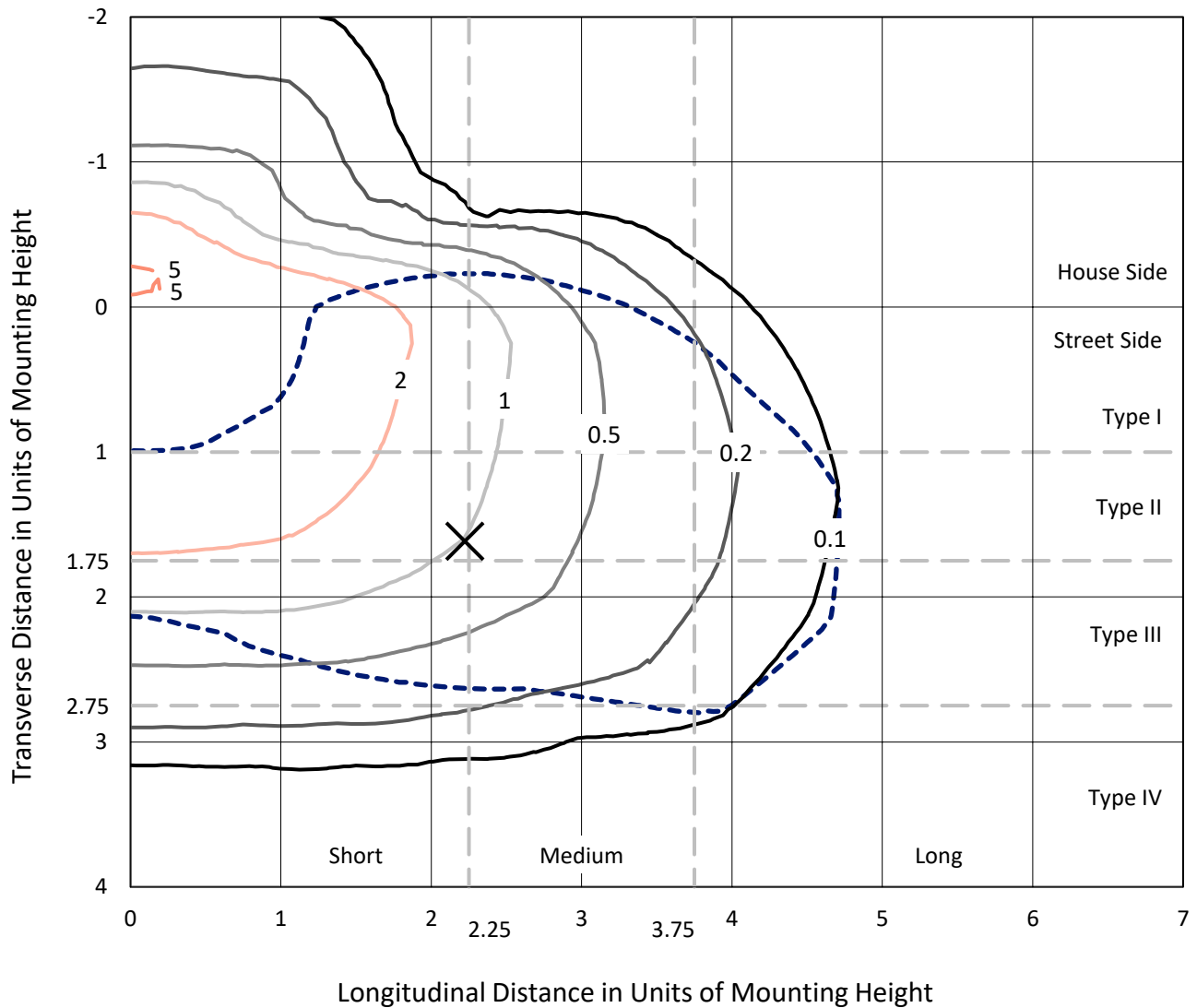
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

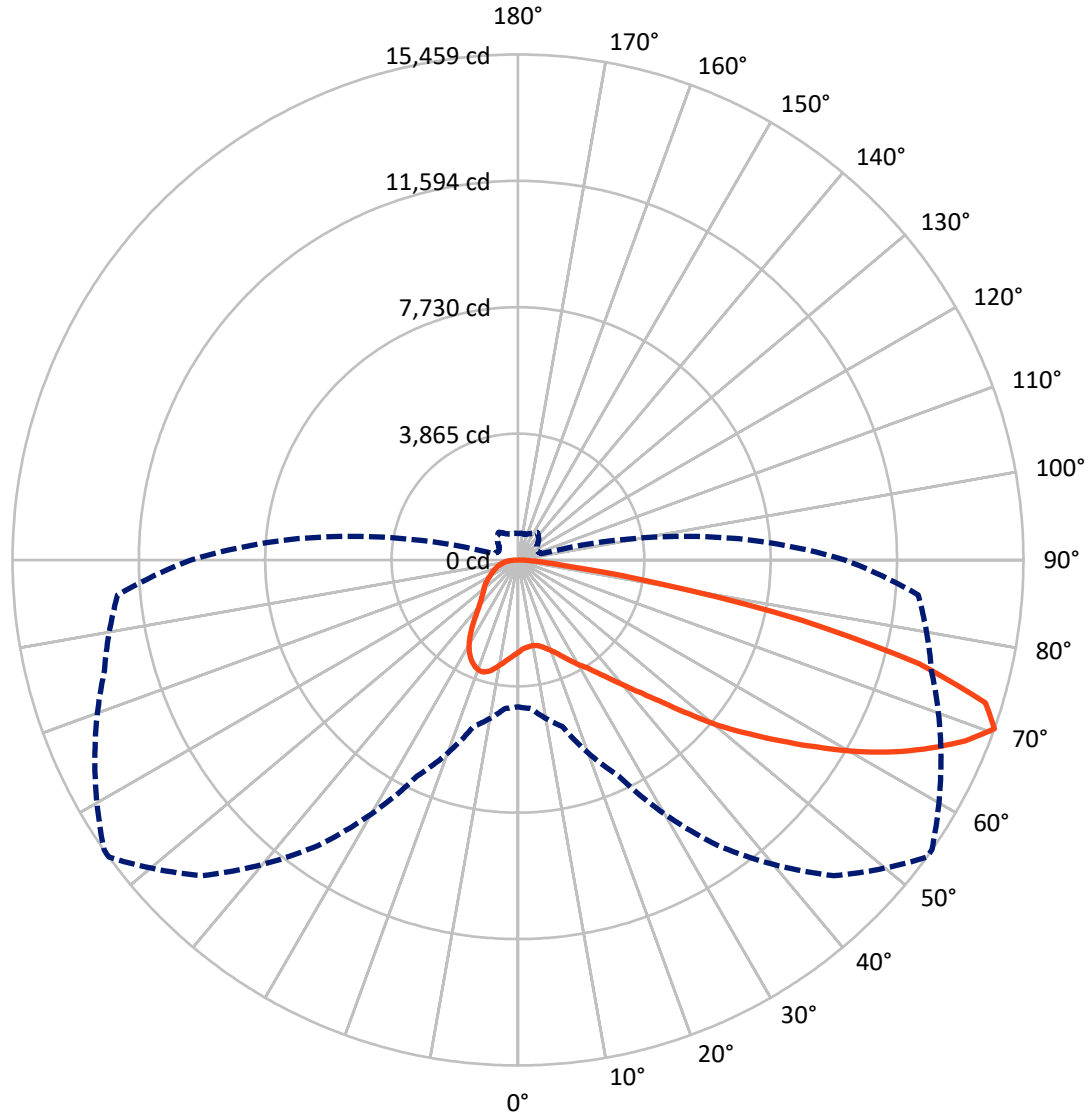
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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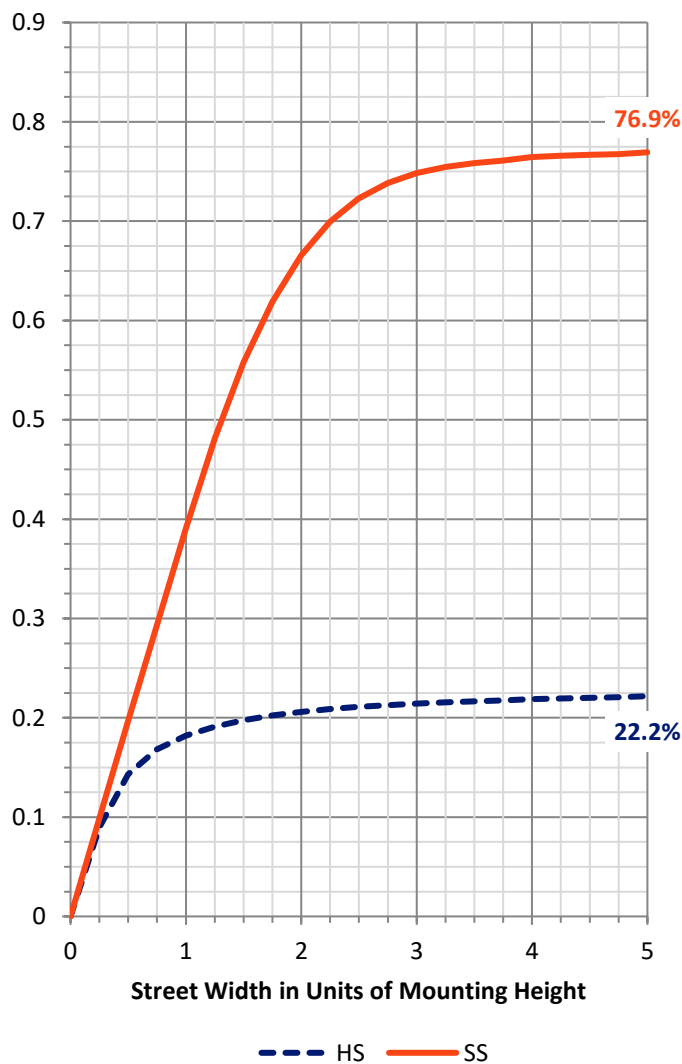
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5713.9	0.0	5713.9
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19480.2	0.0	19480.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	25194.1	0.0	25194.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.6	1.1
10°-20°	883.9	3.5
20°-30°	1535.6	6.1
30°-40°	2244.1	8.9
40°-50°	3522.0	14.0
50°-60°	5416.1	21.5
60°-70°	6617.1	26.3
70°-80°	4102.6	16.3
80°-90°	596.0	2.4
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°	25194.1	100.0
0°-180°	25194.1	100.0



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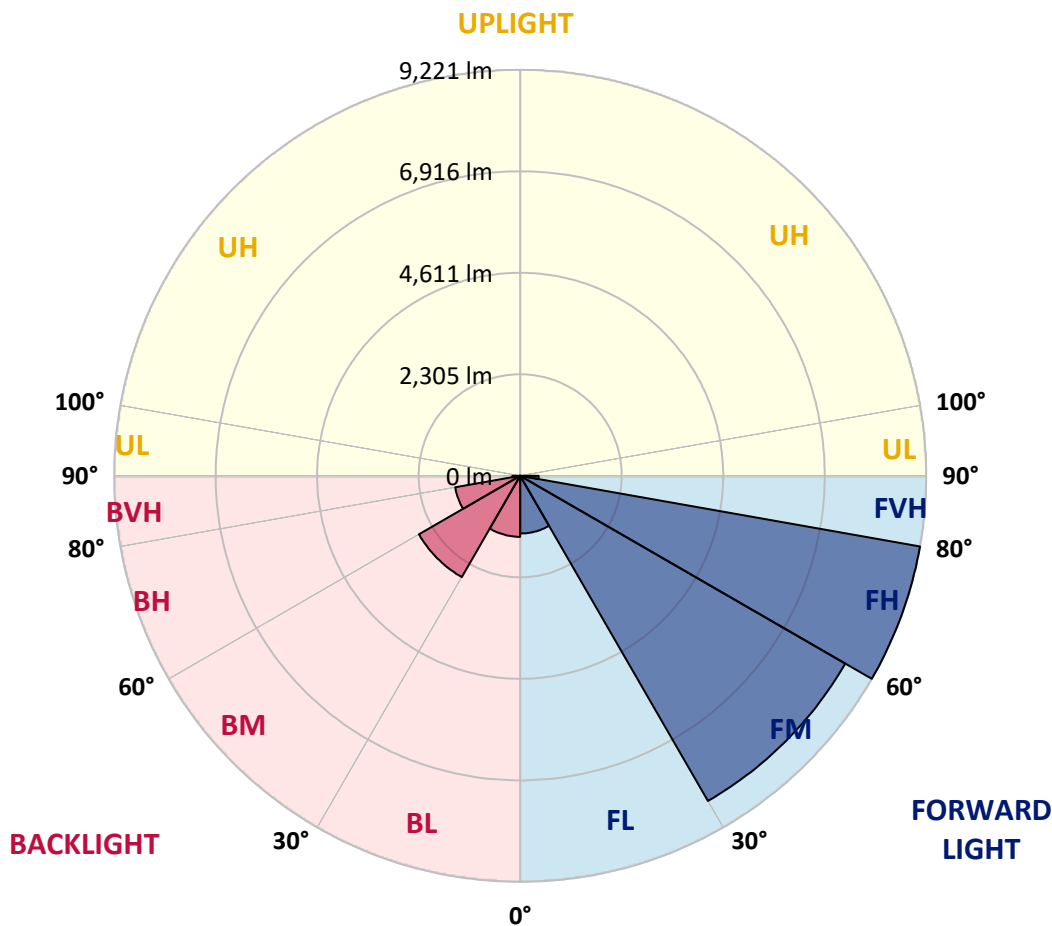
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.8	5.2			
FM (30°-60°)	8527.0	33.8			
FH (60°-80°)	9221.4	36.6			G4/12000
FVH (80°-90°)	420.9	1.7			G3/500
BL (0°-30°)	1385.3	5.5	B3/2500		
BM (30°-60°)	2655.2	10.5	B3/5000		
BH (60°-80°)	1498.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	175.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7
2.5°	2708.0	2698.8	2698.8	2712.6	2717.2	2731.1	2731.1	2735.7	2749.5	2772.6	2800.2
5°	2625.0	2620.4	2625.0	2643.4	2652.6	2680.3	2689.5	2694.2	2721.8	2758.7	2800.2
7.5°	2541.9	2537.3	2546.5	2574.2	2601.9	2643.4	2666.5	2671.1	2712.6	2763.3	2818.7
10°	2514.3	2509.5	2523.5	2546.5	2574.2	2620.4	2657.3	2661.9	2721.8	2781.8	2860.2
12.5°	2551.1	2546.5	2560.4	2583.4	2611.1	2643.4	2684.9	2689.5	2768.0	2846.4	2929.5
15°	2643.4	2643.4	2648.0	2661.9	2689.5	2717.2	2754.1	2758.7	2841.8	2934.0	3017.0
17.5°	2786.4	2777.2	2777.2	2772.6	2791.0	2804.9	2851.0	2855.6	2943.2	3026.3	3109.3
20°	2961.7	2957.1	2938.6	2915.6	2911.0	2920.2	2966.4	2971.0	3058.6	3127.8	3206.2
22.5°	3174.0	3178.6	3137.1	3086.2	3063.2	3077.1	3118.6	3123.1	3187.7	3247.7	3316.9
25°	3455.4	3441.4	3381.6	3307.8	3261.6	3261.6	3303.1	3303.1	3363.1	3399.9	3446.1
27.5°	3722.9	3695.2	3639.9	3533.8	3459.9	3473.8	3515.3	3515.3	3570.7	3584.5	3607.6
30°	4013.5	3985.9	3916.6	3782.9	3686.0	3676.8	3727.5	3722.9	3796.8	3792.1	3773.7
32.5°	4368.7	4355.0	4239.6	4069.0	3939.8	3907.4	3953.5	3958.1	4004.4	3990.4	3930.5
35°	4867.0	4862.4	4756.3	4456.4	4285.7	4225.7	4253.5	4253.5	4285.7	4248.9	4147.4
37.5°	5494.4	5503.6	5411.4	4968.4	4728.6	4627.1	4631.7	4627.1	4636.3	4594.8	4488.7
40°	6121.8	6144.8	6140.3	5605.1	5300.6	5125.4	5060.8	5051.5	5074.5	5056.2	4954.7
42.5°	6947.6	7003.0	6873.8	6389.4	6048.0	5752.7	5577.4	5554.4	5605.1	5628.2	5531.4
45°	7805.7	7787.2	7584.2	7233.6	6924.6	6546.3	6214.1	6177.2	6214.1	6283.3	6181.8
47.5°	8253.1	8239.3	8188.6	8013.3	7967.0	7533.4	7030.7	6998.4	6929.1	7026.0	6906.1
50°	8991.3	9005.1	8797.5	8779.1	8972.8	8732.9	7953.3	7879.4	7754.9	7833.4	7731.8
52.5°	9526.5	9466.4	9337.3	9498.8	10103.1	9973.9	8820.6	8788.3	8673.0	8654.5	8608.3
55°	9743.2	9743.2	9766.2	10140.1	11002.6	10832.0	9761.7	9794.0	9637.1	9508.0	9568.0
57.5°	9807.7	9835.5	10033.9	10652.0	12059.1	11500.8	10799.6	10845.8	10619.8	10361.4	10550.5
60°	9489.5	9572.5	10047.7	10942.7	12654.2	12211.4	11893.0	11906.8	11579.3	11201.0	11533.2
62.5°	8673.0	8774.4	9623.3	11062.6	12557.2	12940.2	12926.4	12958.7	12511.2	12040.7	12455.9
65°	7671.8	7773.4	8677.6	10725.9	12483.5	13461.5	13872.1	13959.7	13383.0	12751.1	13032.5
67.5°	6200.3	6334.0	7192.1	9591.0	12123.7	13890.5	14757.8	14850.1	14056.6	13120.2	12981.7
70°	4493.3	4558.0	5277.6	7289.0	10656.7	13655.3	15459.1	15454.5	14278.1	13092.4	12289.8
72.5°	2163.7	2214.3	2837.1	4525.6	7621.2	11588.6	14951.6	15039.3	13973.6	12691.1	10707.4
75°	890.4	941.2	1148.8	1909.9	3999.7	7658.0	12672.7	12880.2	12691.1	11390.2	8377.7
77.5°	553.6	572.1	673.6	987.2	1826.9	3575.3	8871.3	9152.7	10057.0	9125.0	5531.4
80°	415.1	429.1	502.8	691.9	1153.3	1319.5	4405.7	4760.9	6094.2	5236.0	2505.0
82.5°	346.1	350.6	401.3	502.8	784.3	756.6	1411.6	1573.2	2841.8	1997.6	862.7
85°	323.0	332.1	359.8	359.8	498.2	475.2	585.8	613.6	825.8	682.8	299.9
87.5°	166.1	156.9	318.3	281.5	258.3	230.6	249.1	267.5	309.1	327.6	133.8
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°	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7	2818.7
2.5°	2809.5	2823.4	2846.4	2869.4	2897.1	2929.5	2948.0	2971.0	2989.5	2980.1	2975.5
5°	2823.4	2846.4	2897.1	2943.2	2998.6	3063.2	3104.7	3150.8	3187.7	3197.0	3183.2
7.5°	2846.4	2887.9	2957.1	3040.1	3114.0	3197.0	3261.6	3326.2	3372.3	3381.6	3381.6
10°	2901.7	2948.0	3040.1	3150.8	3238.6	3326.2	3399.9	3450.7	3492.3	3510.7	3510.7
12.5°	2980.1	3035.5	3146.2	3280.1	3376.8	3459.9	3501.4	3524.6	3543.0	3561.5	3566.1
15°	3072.5	3132.5	3266.2	3409.2	3510.7	3552.2	3552.2	3547.6	3547.6	3556.8	3566.1
17.5°	3164.7	3229.2	3367.7	3519.9	3584.5	3561.5	3529.2	3515.3	3506.1	3501.4	3515.3
20°	3261.6	3326.2	3464.6	3607.6	3589.1	3492.3	3446.1	3413.8	3386.2	3372.3	3390.8
22.5°	3367.7	3427.7	3570.7	3667.5	3529.2	3381.6	3293.8	3243.2	3197.0	3169.3	3187.7
25°	3492.3	3552.2	3690.7	3686.0	3423.1	3215.5	3077.1	2994.0	2943.2	2915.6	2915.6
27.5°	3639.9	3690.7	3824.4	3639.9	3275.4	2994.0	2791.0	2712.6	2698.8	2675.6	2675.6
30°	3792.1	3833.6	3948.9	3533.8	3072.5	2703.4	2482.0	2445.0	2449.7	2426.5	2431.2
32.5°	3948.9	3990.4	4022.8	3376.8	2809.5	2375.9	2228.3	2200.5	2195.9	2177.4	2159.0
35°	4170.4	4230.4	4032.0	3164.7	2491.2	2103.7	1997.6	1969.8	1942.2	1877.6	1877.6
37.5°	4507.2	4571.7	4008.9	2901.7	2163.7	1891.5	1794.6	1757.7	1711.5	1647.0	1623.9
40°	4968.4	4968.4	3958.1	2606.5	1900.7	1720.8	1628.5	1582.4	1531.6	1467.1	1453.1
42.5°	5512.9	5383.6	3879.8	2306.7	1706.9	1605.4	1522.4	1471.6	1411.6	1337.9	1328.6
45°	6149.5	5798.9	3769.0	2039.1	1563.9	1536.1	1485.5	1397.9	1296.4	1217.9	1204.0
47.5°	6767.6	6172.6	3662.9	1849.9	1444.0	1508.6	1467.1	1319.5	1181.0	1070.3	1056.4
50°	7445.8	6504.7	3538.4	1693.1	1351.6	1490.1	1444.0	1204.0	1051.8	973.4	964.2
52.5°	8124.0	6841.5	3404.6	1527.0	1273.3	1453.1	1388.5	1121.0	1047.2	941.2	927.3
55°	8839.1	7233.6	3247.7	1342.5	1181.0	1379.4	1314.8	1116.4	1079.5	941.2	908.8
57.5°	9535.6	7667.3	2994.0	1162.5	1079.5	1268.6	1287.1	1088.8	1010.3	931.9	895.0
60°	10306.1	8128.6	2574.2	1010.3	991.8	1176.4	1250.2	1028.7	931.9	904.2	885.8
62.5°	10924.2	8543.7	2011.4	904.2	918.0	1102.5	1204.0	991.8	899.6	876.5	871.9
65°	11191.8	8553.1	1444.0	811.9	844.2	1033.4	1157.9	959.6	871.9	862.7	858.1
67.5°	10910.4	8082.5	1014.9	724.3	765.8	968.8	1097.9	927.3	844.2	848.8	839.6
70°	10001.6	7090.6	742.8	641.3	691.9	899.6	1033.4	885.8	811.9	821.2	807.3
72.5°	8368.5	5526.7	595.1	572.1	632.1	825.8	968.8	839.6	761.2	765.8	738.1
75°	6181.8	3662.9	498.2	512.1	562.8	756.6	885.8	779.7	705.9	687.4	668.8
77.5°	3676.8	1882.2	410.6	447.5	502.8	673.6	793.4	705.9	645.8	613.6	599.8
80°	1517.7	761.2	336.7	378.2	438.2	599.8	701.2	618.2	576.7	544.3	525.9
82.5°	604.3	373.6	267.5	309.1	369.1	521.2	613.6	544.3	502.8	479.7	429.1
85°	230.6	184.5	180.0	216.8	276.8	401.3	507.5	456.7	424.5	364.5	350.6
87.5°	92.3	83.0	83.0	106.1	156.9	253.7	364.5	318.3	332.1	263.0	267.5
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)