

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: P237114

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
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-T3-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25167 lumens
Efficiency: N/A
Efficacy: 119.3 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

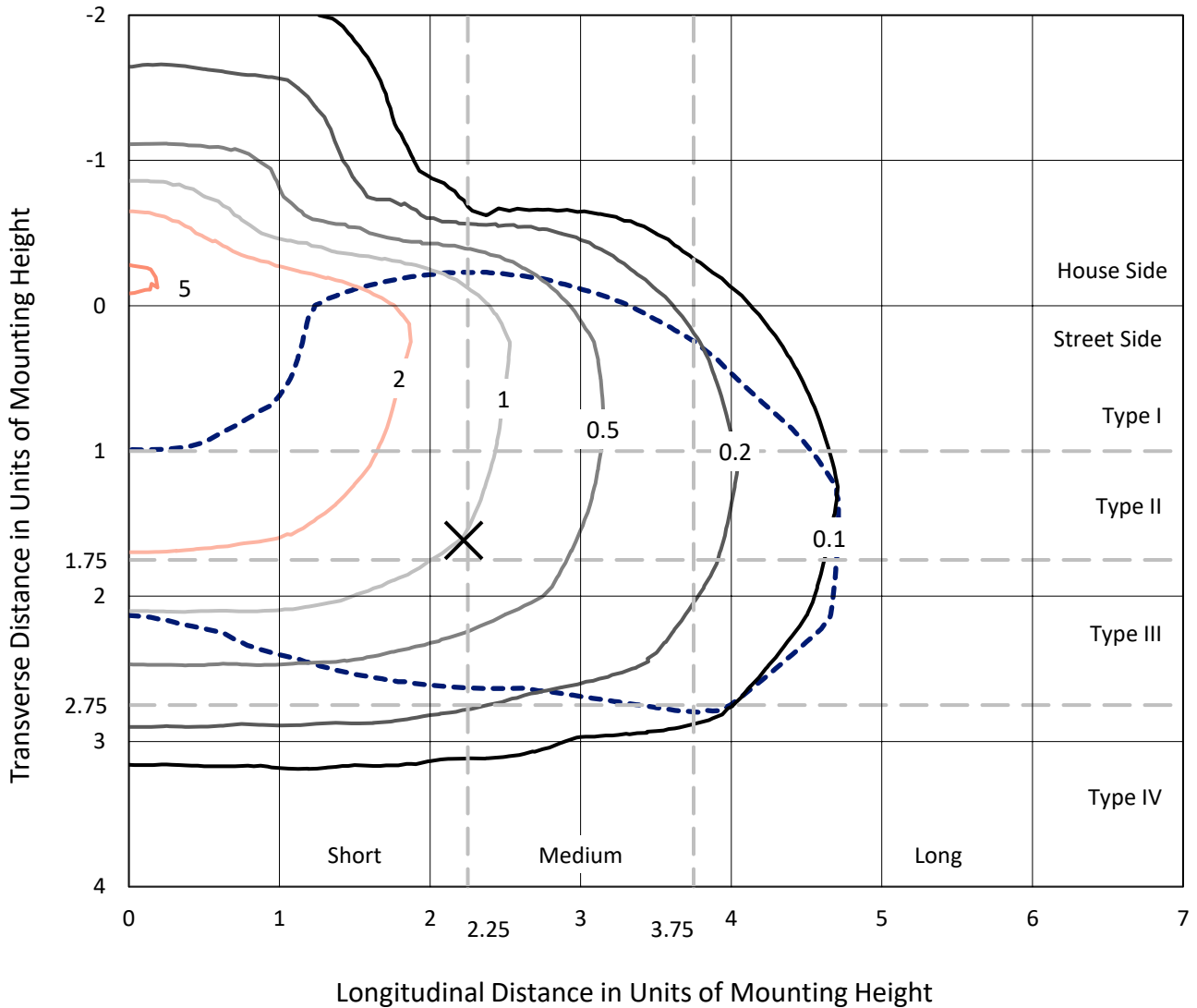
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

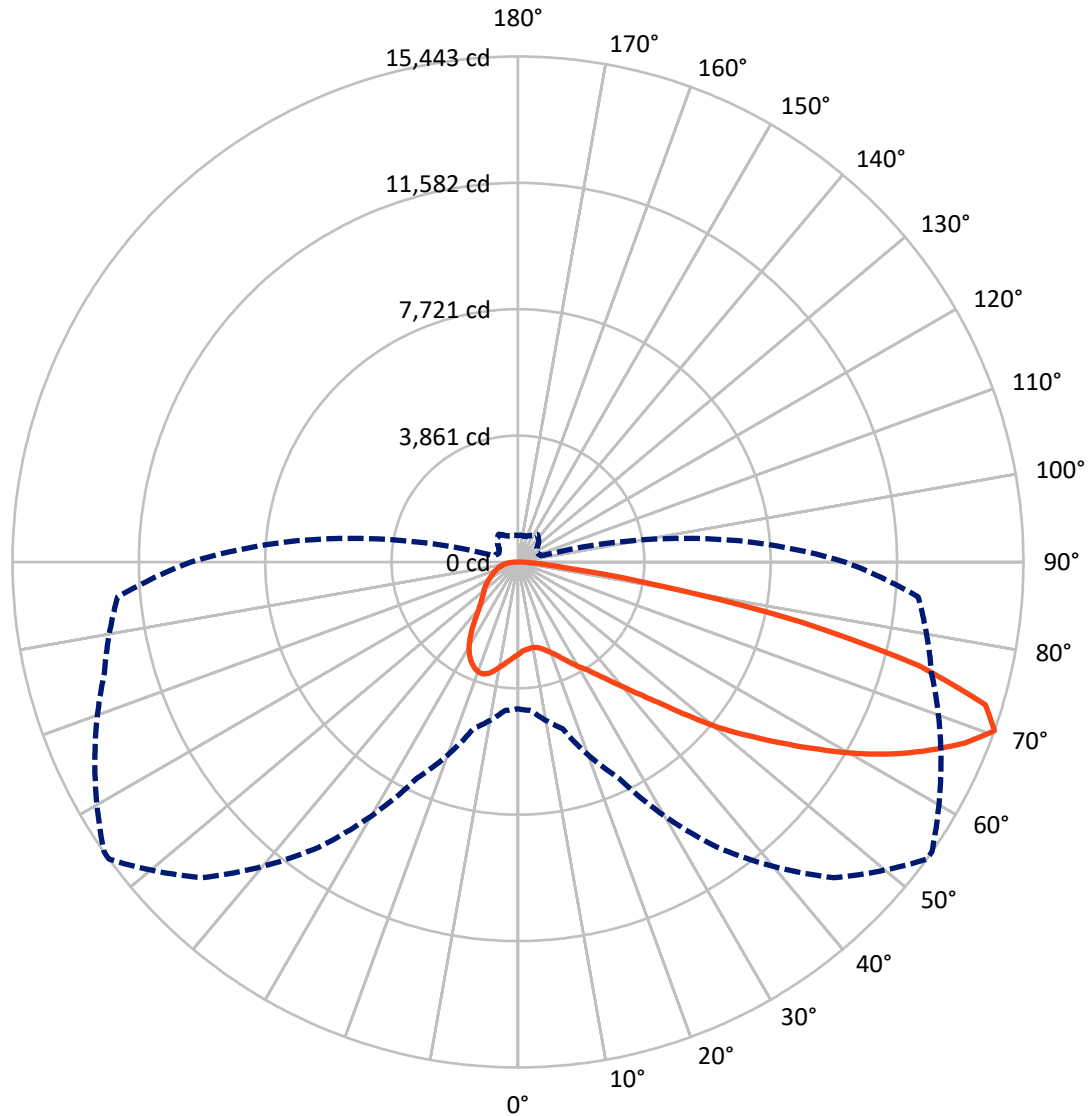
✕ Max cd
 - - - 1/2 Max cd



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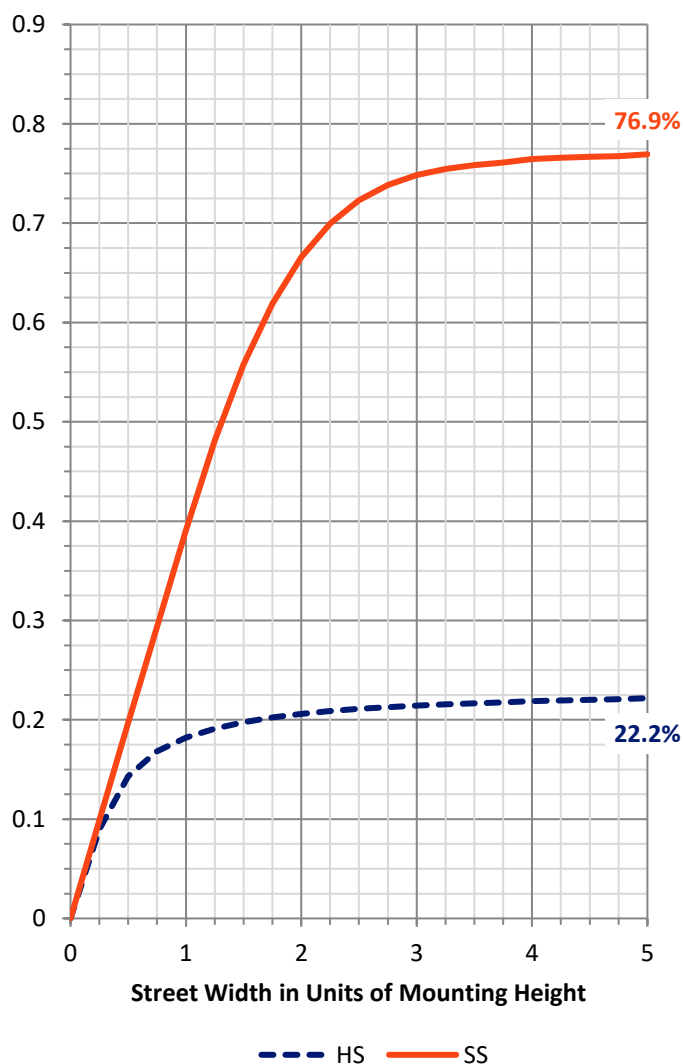
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5707.8	0.0	5707.8
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	19459.2	0.0	19459.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	25167.0	0.0	25167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.3	1.1
10°-20°	882.9	3.5
20°-30°	1534.0	6.1
30°-40°	2241.7	8.9
40°-50°	3518.2	14.0
50°-60°	5410.3	21.5
60°-70°	6610.0	26.3
70°-80°	4098.2	16.3
80°-90°	595.4	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°	25167.0	100.0
0°-180°	25167.0	100.0

Coefficient of Utilization



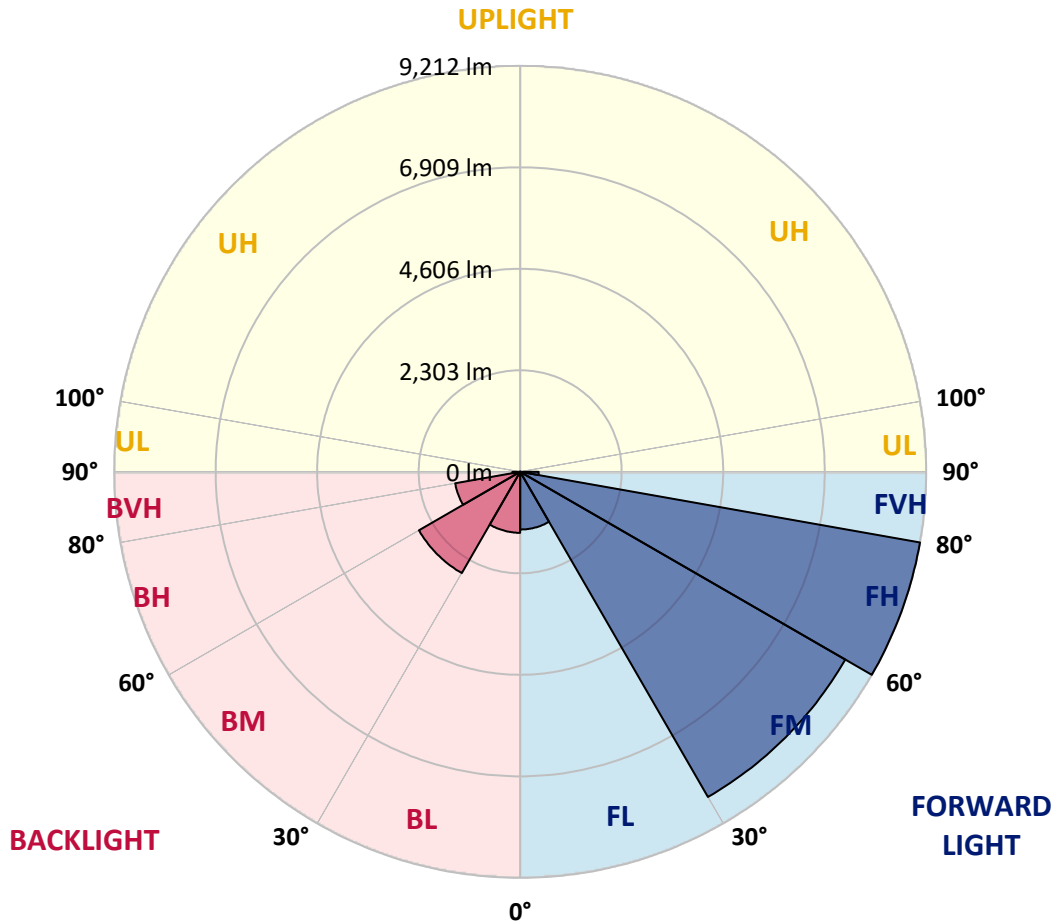
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.4	5.2			
FM (30°-60°)	8517.9	33.8			
FH (60°-80°)	9211.5	36.6			G4/12000
FVH (80°-90°)	420.4	1.7			G3/500
BL (0°-30°)	1383.8	5.5	B3/2500		
BM (30°-60°)	2652.3	10.5	B3/5000		
BH (60°-80°)	1496.7	5.9	B3/2500		G3/2500
BVH (80°-90°)	175.0	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°	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2705.1	2695.9	2695.9	2709.7	2714.3	2728.1	2728.1	2732.7	2746.6	2769.6	2797.2
5°	2622.1	2617.5	2622.1	2640.6	2649.8	2677.4	2686.6	2691.3	2718.9	2755.8	2797.2
7.5°	2539.2	2534.6	2543.8	2571.4	2599.1	2640.6	2663.6	2668.2	2709.7	2760.4	2815.7
10°	2511.5	2506.9	2520.7	2543.8	2571.4	2617.5	2654.4	2659.0	2718.9	2778.8	2857.2
12.5°	2548.4	2543.8	2557.6	2580.7	2608.3	2640.6	2682.0	2686.6	2765.0	2843.3	2926.3
15°	2640.6	2640.6	2645.2	2659.0	2686.6	2714.3	2751.2	2755.8	2838.7	2930.9	3013.8
17.5°	2783.4	2774.2	2774.2	2769.6	2788.0	2801.9	2847.9	2852.5	2940.1	3023.1	3106.0
20°	2958.5	2953.9	2935.5	2912.5	2907.8	2917.1	2963.1	2967.8	3055.3	3124.4	3202.8
22.5°	3170.5	3175.1	3133.7	3083.0	3059.9	3073.7	3115.2	3119.8	3184.3	3244.3	3313.4
25°	3451.6	3437.8	3377.9	3304.2	3258.1	3258.1	3299.6	3299.6	3359.5	3396.3	3442.4
27.5°	3718.9	3691.3	3636.0	3530.0	3456.2	3470.1	3511.5	3511.5	3566.8	3580.7	3603.7
30°	4009.2	3981.6	3912.5	3778.8	3682.0	3672.8	3723.5	3718.9	3792.6	3788.0	3769.6
32.5°	4364.1	4350.2	4235.0	4064.5	3935.5	3903.2	3949.3	3953.9	4000.0	3986.2	3926.3
35°	4861.8	4857.2	4751.2	4451.6	4281.1	4221.2	4248.9	4248.9	4281.1	4244.3	4142.9
37.5°	5488.5	5497.7	5405.6	4963.2	4723.5	4622.1	4626.7	4622.1	4631.4	4589.9	4483.9
40°	6115.2	6138.3	6133.7	5599.1	5295.0	5119.8	5055.3	5046.1	5069.1	5050.7	4949.3
42.5°	6940.1	6995.4	6866.4	6382.5	6041.5	5746.6	5571.4	5548.4	5599.1	5622.1	5525.4
45°	7797.3	7778.8	7576.1	7225.8	6917.1	6539.2	6207.4	6170.5	6207.4	6276.5	6175.1
47.5°	8244.3	8230.4	8179.8	8004.6	7958.6	7525.4	7023.1	6990.8	6921.7	7018.5	6898.6
50°	8981.6	8995.4	8788.1	8769.6	8963.2	8723.5	7944.7	7871.0	7746.6	7824.9	7723.5
52.5°	9516.2	9456.3	9327.2	9488.5	10092.2	9963.2	8811.1	8778.8	8663.6	8645.2	8599.1
55°	9732.8	9732.8	9755.8	10129.1	10990.8	10820.3	9751.2	9783.4	9626.8	9497.7	9557.6
57.5°	9797.3	9824.9	10023.1	10640.6	12046.1	11488.5	10788.1	10834.1	10608.3	10350.3	10539.2
60°	9479.3	9562.2	10036.9	10930.9	12640.6	12198.2	11880.2	11894.1	11566.9	11189.0	11520.8
62.5°	8663.6	8765.0	9612.9	11050.7	12543.8	12926.3	12912.5	12944.8	12497.7	12027.7	12442.4
65°	7663.6	7765.0	8668.2	10714.3	12470.1	13447.1	13857.2	13944.8	13368.7	12737.4	13018.5
67.5°	6193.6	6327.2	7184.4	9580.7	12110.6	13875.6	14742.0	14834.2	14041.5	13106.0	12967.8
70°	4488.5	4553.0	5271.9	7281.1	10645.2	13640.6	15442.5	15437.8	14262.7	13078.4	12276.5
72.5°	2161.3	2212.0	2834.1	4520.8	7612.9	11576.1	14935.5	15023.1	13958.6	12677.5	10695.9
75°	889.4	940.1	1147.5	1907.8	3995.4	7649.8	12659.0	12866.4	12677.5	11377.9	8368.7
77.5°	553.0	571.4	672.8	986.2	1824.9	3571.4	8861.8	9142.9	10046.1	9115.2	5525.4
80°	414.7	428.6	502.3	691.2	1152.1	1318.0	4400.9	4755.8	6087.6	5230.4	2502.3
82.5°	345.6	350.2	400.9	502.3	783.4	755.8	1410.1	1571.4	2838.7	1995.4	861.8
85°	322.6	331.8	359.4	359.4	497.7	474.7	585.3	612.9	824.9	682.0	299.5
87.5°	165.9	156.7	318.0	281.1	258.1	230.4	248.8	267.3	308.8	327.2	133.6
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°	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7	2815.7
2.5°	2806.5	2820.3	2843.3	2866.4	2894.0	2926.3	2944.7	2967.8	2986.2	2977.0	2972.4
5°	2820.3	2843.3	2894.0	2940.1	2995.4	3059.9	3101.4	3147.5	3184.3	3193.6	3179.7
7.5°	2843.3	2884.8	2953.9	3036.9	3110.6	3193.6	3258.1	3322.6	3368.7	3377.9	3377.9
10°	2898.6	2944.7	3036.9	3147.5	3235.0	3322.6	3396.3	3447.0	3488.5	3506.9	3506.9
12.5°	2977.0	3032.3	3142.9	3276.5	3373.3	3456.2	3497.7	3520.8	3539.2	3557.6	3562.2
15°	3069.1	3129.0	3262.7	3405.5	3506.9	3548.4	3548.4	3543.8	3543.8	3553.0	3562.2
17.5°	3161.3	3225.8	3364.1	3516.1	3580.7	3557.6	3525.4	3511.5	3502.3	3497.7	3511.5
20°	3258.1	3322.6	3460.8	3603.7	3585.3	3488.5	3442.4	3410.2	3382.5	3368.7	3387.1
22.5°	3364.1	3424.0	3566.8	3663.6	3525.4	3377.9	3290.3	3239.6	3193.6	3165.9	3184.3
25°	3488.5	3548.4	3686.7	3682.0	3419.4	3212.0	3073.7	2990.8	2940.1	2912.5	2912.5
27.5°	3636.0	3686.7	3820.3	3636.0	3271.9	2990.8	2788.0	2709.7	2695.9	2672.8	2672.8
30°	3788.0	3829.5	3944.7	3530.0	3069.1	2700.5	2479.3	2442.4	2447.0	2424.0	2428.6
32.5°	3944.7	3986.2	4018.4	3373.3	2806.5	2373.3	2225.8	2198.2	2193.6	2175.1	2156.7
35°	4165.9	4225.8	4027.7	3161.3	2488.5	2101.4	1995.4	1967.7	1940.1	1875.6	1875.6
37.5°	4502.3	4566.8	4004.6	2898.6	2161.3	1889.4	1792.6	1755.8	1709.7	1645.2	1622.1
40°	4963.2	4963.2	3953.9	2603.7	1898.6	1718.9	1626.7	1580.7	1530.0	1465.4	1451.6
42.5°	5506.9	5377.9	3875.6	2304.2	1705.1	1603.7	1520.7	1470.1	1410.1	1336.4	1327.2
45°	6142.9	5792.6	3765.0	2036.9	1562.2	1534.6	1483.9	1396.3	1294.9	1216.6	1202.8
47.5°	6760.4	6165.9	3659.0	1847.9	1442.4	1506.9	1465.4	1318.0	1179.7	1069.1	1055.3
50°	7437.8	6497.7	3534.6	1691.3	1350.2	1488.5	1442.4	1202.8	1050.7	972.4	963.1
52.5°	8115.2	6834.1	3400.9	1525.4	1271.9	1451.6	1387.1	1119.8	1046.1	940.1	926.3
55°	8829.5	7225.8	3244.3	1341.0	1179.7	1377.9	1313.4	1115.2	1078.3	940.1	907.8
57.5°	9525.4	7659.0	2990.8	1161.3	1078.3	1267.3	1285.7	1087.6	1009.2	930.9	894.0
60°	10295.0	8119.8	2571.4	1009.2	990.8	1175.1	1248.9	1027.7	930.9	903.2	884.8
62.5°	10912.5	8534.6	2009.2	903.2	917.1	1101.4	1202.8	990.8	898.6	875.6	871.0
65°	11179.8	8543.8	1442.4	811.1	843.3	1032.3	1156.7	958.5	871.0	861.8	857.1
67.5°	10898.7	8073.8	1013.8	723.5	765.0	967.7	1096.8	926.3	843.3	847.9	838.7
70°	9990.8	7083.0	741.9	640.6	691.2	898.6	1032.3	884.8	811.1	820.3	806.5
72.5°	8359.5	5520.8	594.5	571.4	631.3	824.9	967.7	838.7	760.4	765.0	737.3
75°	6175.1	3659.0	497.7	511.5	562.2	755.8	884.8	778.8	705.1	686.6	668.2
77.5°	3672.8	1880.2	410.1	447.0	502.3	672.8	792.6	705.1	645.2	612.9	599.1
80°	1516.1	760.4	336.4	377.9	437.8	599.1	700.5	617.5	576.0	543.8	525.3
82.5°	603.7	373.3	267.3	308.8	368.7	520.7	612.9	543.8	502.3	479.3	428.6
85°	230.4	184.3	179.7	216.6	276.5	400.9	506.9	456.2	424.0	364.1	350.2
87.5°	92.2	82.9	82.9	106.0	156.7	253.5	364.1	318.0	331.8	262.7	267.3
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)