

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: P237074

Luminaire Tested: **ARCH-L-AF72-210-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237074
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-AF72-210-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 900mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24340.8 lumens
Efficiency: N/A
Efficacy: 115.4 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

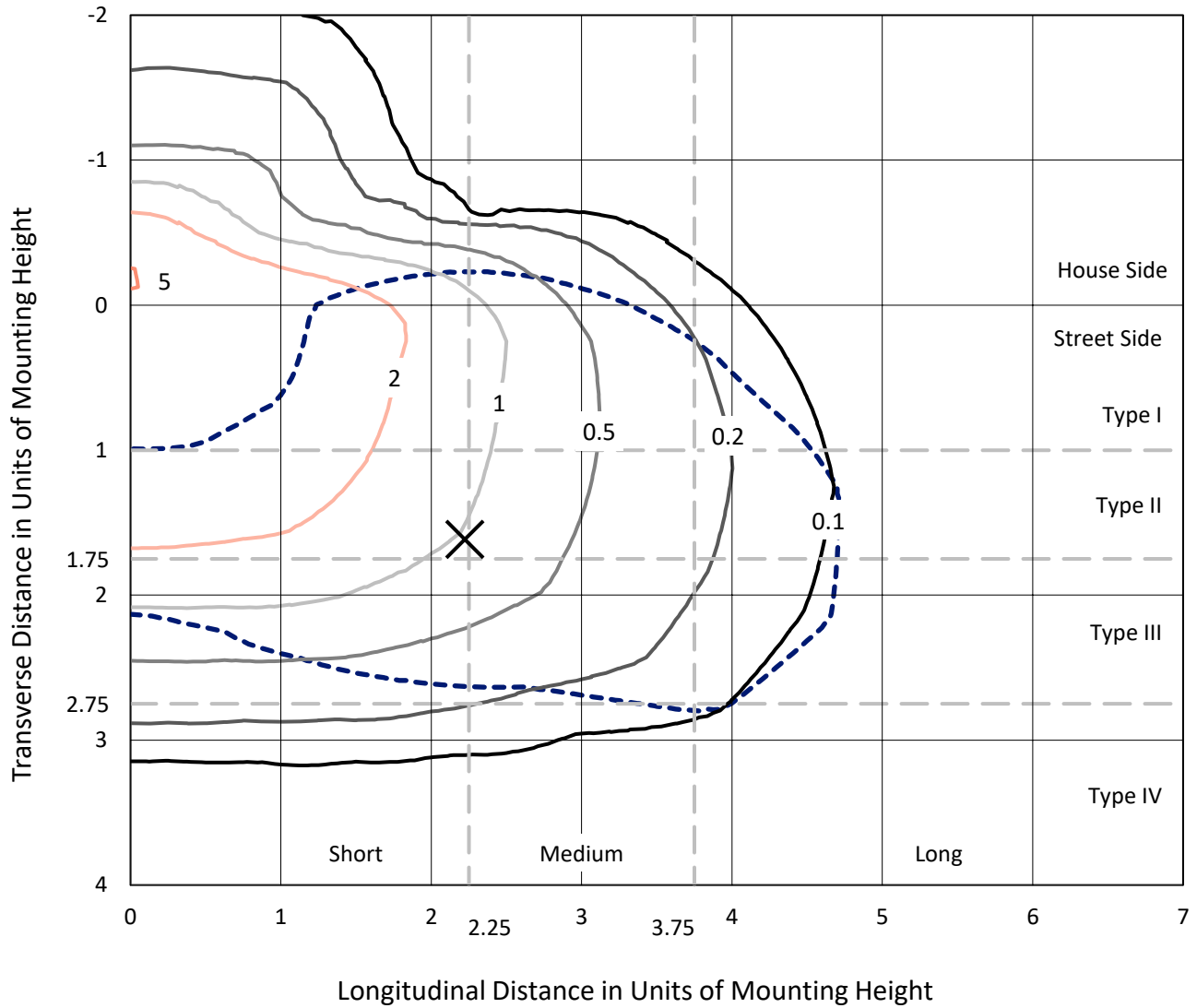
Input Watts (W): 211
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

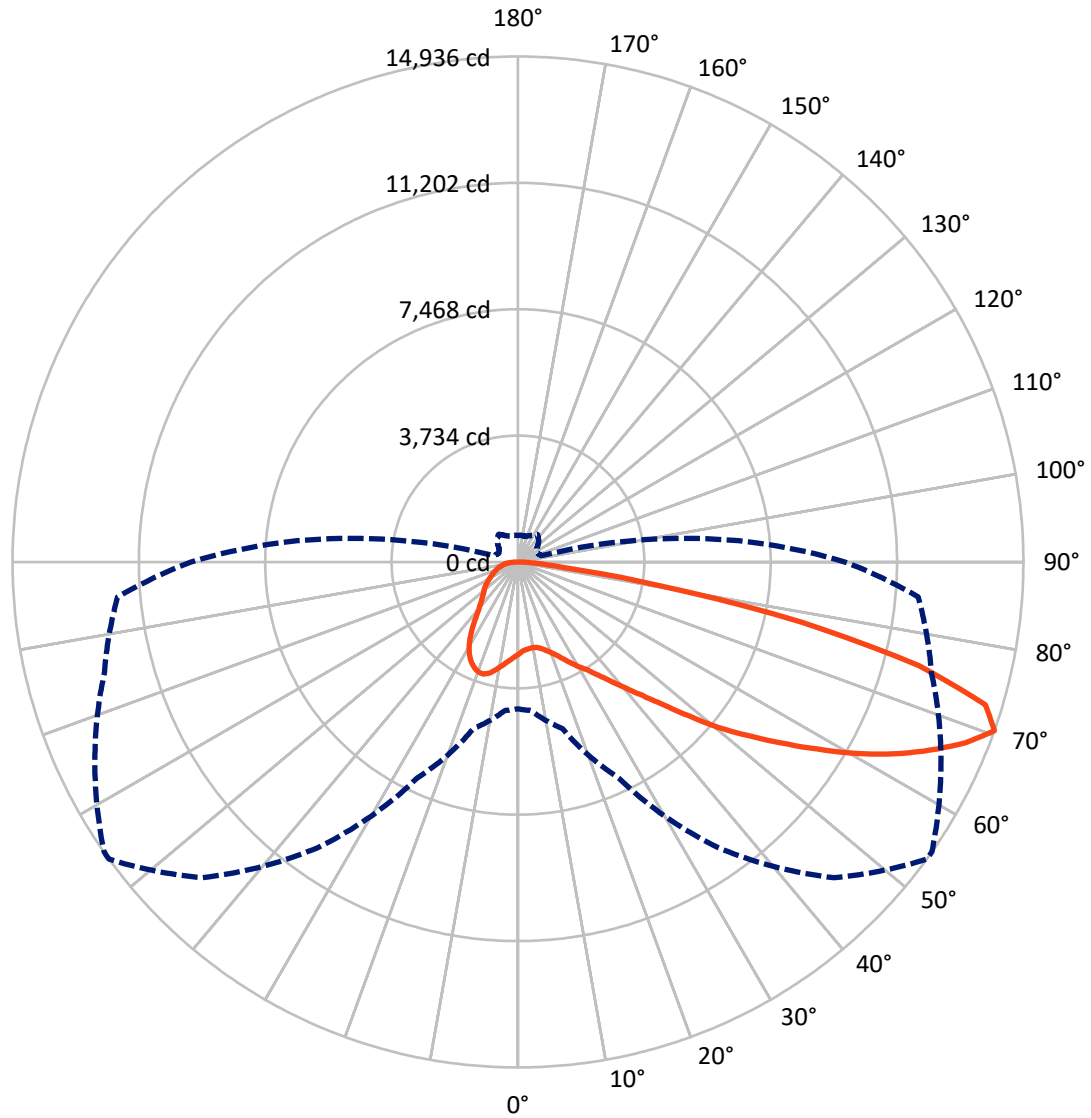
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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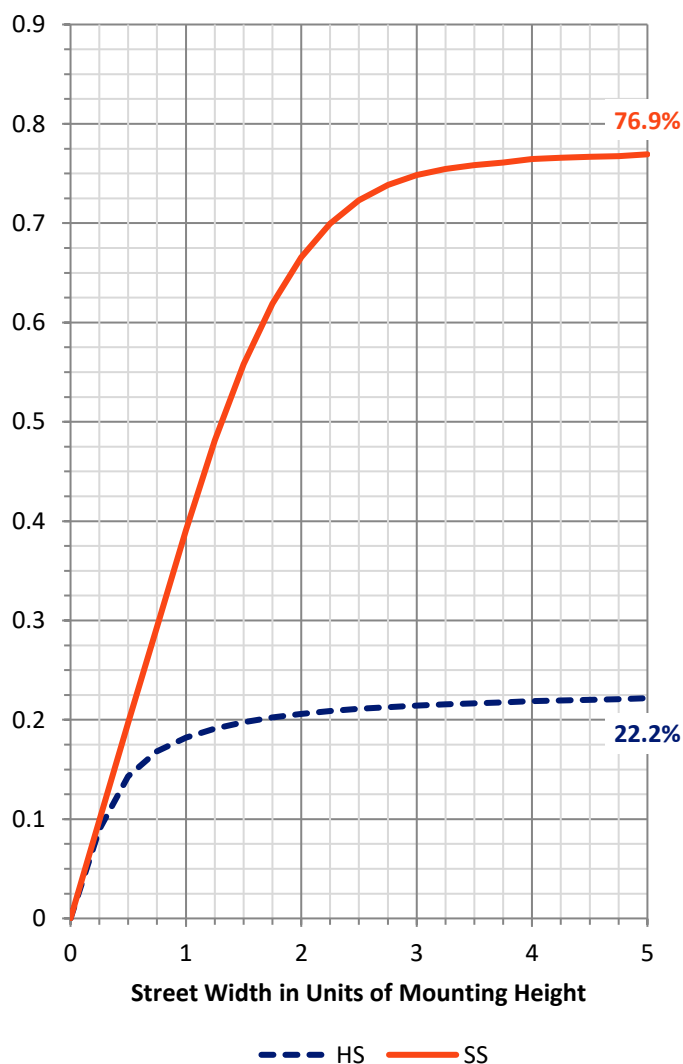
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5520.4	0.0	5520.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	18820.4	0.0	18820.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	24340.8	0.0	24340.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.3	1.1
10°-20°	853.9	3.5
20°-30°	1483.6	6.1
30°-40°	2168.1	8.9
40°-50°	3402.7	14.0
50°-60°	5232.6	21.5
60°-70°	6393.0	26.3
70°-80°	3963.7	16.3
80°-90°	575.8	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°	24340.8	100.0
0°-180°	24340.8	100.0

Coefficient of Utilization



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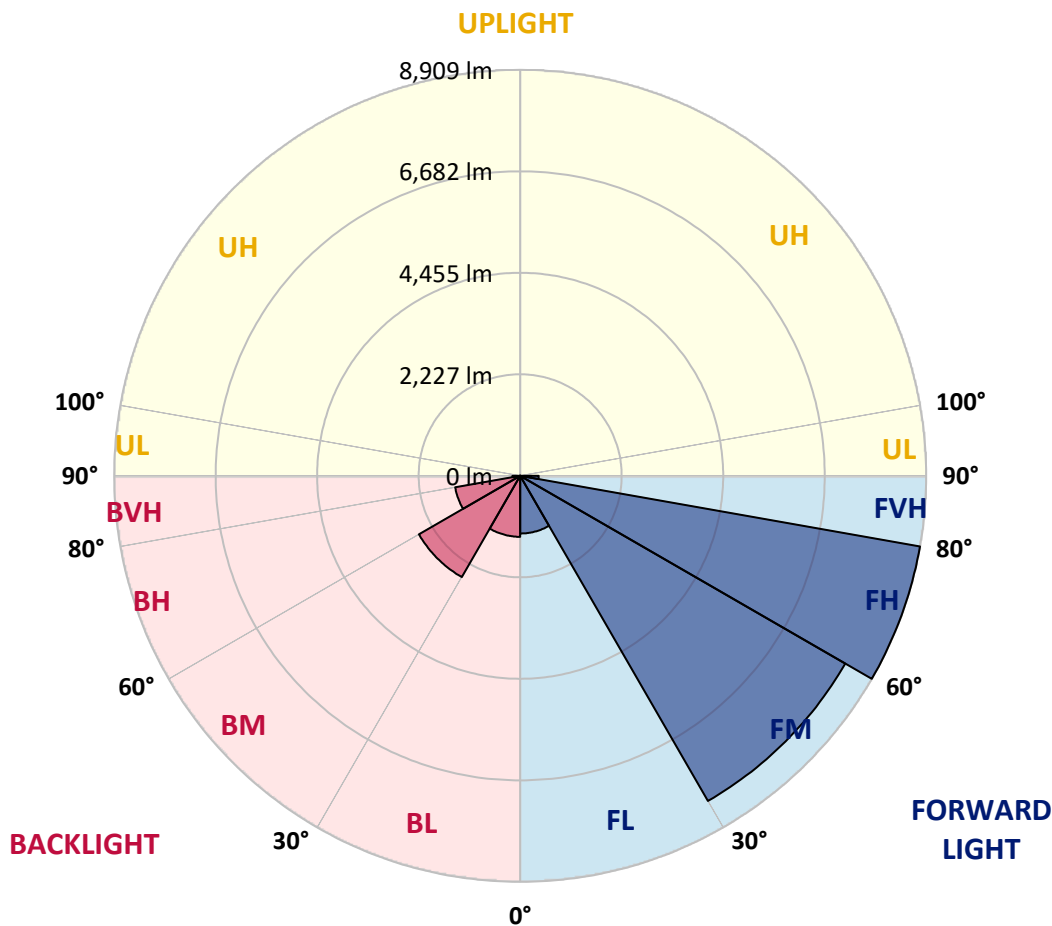
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1266.4	5.2			
FM (30°-60°)	8238.2	33.8			
FH (60°-80°)	8909.1	36.6			G4/12000
FVH (80°-90°)	406.6	1.7			G3/500
BL (0°-30°)	1338.4	5.5	B3/2500		
BM (30°-60°)	2565.2	10.5	B3/5000		
BH (60°-80°)	1447.6	5.9	B3/2500		G3/2500
BVH (80°-90°)	169.2	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°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2616.3	2607.4	2607.4	2620.7	2625.2	2638.6	2638.6	2643.0	2656.4	2678.7	2705.4
5°	2536.0	2531.5	2536.0	2553.8	2562.7	2589.6	2598.4	2602.9	2629.7	2665.3	2705.4
7.5°	2455.8	2451.3	2460.3	2487.1	2513.7	2553.8	2576.2	2580.6	2620.7	2669.8	2723.3
10°	2429.1	2424.6	2438.0	2460.3	2487.1	2531.5	2567.3	2571.8	2629.7	2687.6	2763.3
12.5°	2464.8	2460.3	2473.6	2495.9	2522.7	2553.8	2594.1	2598.4	2674.2	2749.9	2830.3
15°	2553.8	2553.8	2558.3	2571.8	2598.4	2625.2	2660.8	2665.3	2745.5	2834.6	2914.9
17.5°	2692.0	2683.1	2683.1	2678.7	2696.5	2709.8	2754.4	2758.9	2843.6	2923.8	3004.1
20°	2861.4	2856.9	2839.1	2816.8	2812.4	2821.3	2865.9	2870.3	2955.0	3021.9	3097.6
22.5°	3066.5	3070.8	3030.8	2981.8	2959.5	2972.8	3013.0	3017.4	3079.8	3137.7	3204.6
25°	3338.3	3325.0	3267.0	3195.8	3151.1	3151.1	3191.3	3191.3	3249.2	3284.9	3329.3
27.5°	3596.9	3570.0	3516.6	3414.2	3342.8	3356.1	3396.3	3396.3	3449.8	3463.1	3485.4
30°	3877.6	3850.9	3783.9	3654.7	3561.2	3552.2	3601.3	3596.9	3668.2	3663.7	3645.9
32.5°	4220.8	4207.5	4096.0	3931.1	3806.3	3775.1	3819.7	3824.1	3868.7	3855.3	3797.5
35°	4702.2	4697.7	4595.2	4305.5	4140.6	4082.6	4109.3	4109.3	4140.6	4104.9	4006.9
37.5°	5308.4	5317.2	5228.0	4800.2	4568.4	4470.4	4474.8	4470.4	4479.3	4439.2	4336.7
40°	5914.4	5936.7	5932.3	5415.3	5121.1	4951.7	4889.4	4880.4	4902.7	4884.9	4786.8
42.5°	6712.3	6765.8	6641.0	6172.9	5843.1	5557.9	5388.5	5366.3	5415.3	5437.7	5344.0
45°	7541.3	7523.5	7327.4	6988.7	6690.0	6324.5	6003.6	5968.0	6003.6	6070.5	5972.4
47.5°	7973.6	7960.2	7911.3	7741.9	7697.4	7278.3	6792.5	6761.3	6694.5	6788.1	6672.1
50°	8686.7	8700.1	8499.5	8481.7	8668.9	8437.1	7683.8	7612.6	7492.2	7568.1	7469.9
52.5°	9203.8	9145.8	9021.0	9177.0	9760.9	9636.1	8521.7	8490.6	8379.2	8361.4	8316.9
55°	9413.2	9413.2	9435.5	9796.5	10630.1	10465.1	9431.0	9462.3	9310.7	9186.0	9243.9
57.5°	9475.6	9502.4	9694.0	10291.2	11650.7	11111.3	10433.9	10478.5	10260.1	10010.5	10193.3
60°	9168.1	9248.4	9707.3	10572.0	12225.6	11797.7	11490.2	11503.6	11187.2	10821.7	11142.6
62.5°	8379.2	8477.2	9297.3	10688.0	12132.0	12502.0	12488.6	12519.8	12087.5	11632.9	12034.0
65°	7412.0	7510.1	8383.7	10362.5	12060.7	13005.5	13402.3	13487.0	12929.8	12319.2	12591.0
67.5°	5990.2	6119.5	6948.5	9266.2	11713.0	13420.1	14258.0	14347.2	13580.6	12675.8	12542.1
70°	4341.1	4403.5	5098.8	7042.1	10295.7	13192.8	14935.5	14931.1	13794.5	12649.1	11873.5
72.5°	2090.3	2139.4	2741.1	4372.3	7363.0	11196.1	14445.1	14529.9	13500.3	12261.3	10344.7
75°	860.2	909.2	1109.7	1845.2	3864.3	7398.7	12243.5	12444.0	12261.3	11004.4	8093.9
77.5°	534.9	552.7	650.7	953.9	1765.0	3454.2	8570.9	8842.8	9716.3	8816.0	5344.0
80°	401.1	414.5	485.7	668.5	1114.2	1274.7	4256.4	4599.6	5887.8	5058.7	2420.2
82.5°	334.3	338.7	387.8	485.7	757.7	731.0	1363.9	1519.8	2745.5	1929.8	833.4
85°	312.1	320.9	347.7	347.7	481.4	459.1	566.1	592.7	797.8	659.6	289.7
87.5°	160.5	151.6	307.6	271.8	249.5	222.9	240.7	258.5	298.6	316.5	129.3
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°	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3	2723.3
2.5°	2714.3	2727.6	2749.9	2772.2	2799.0	2830.3	2848.1	2870.3	2888.2	2879.2	2874.8
5°	2727.6	2749.9	2799.0	2843.6	2897.1	2959.5	2999.6	3044.2	3079.8	3088.8	3075.3
7.5°	2749.9	2790.1	2856.9	2937.2	3008.5	3088.8	3151.1	3213.6	3258.1	3267.0	3267.0
10°	2803.5	2848.1	2937.2	3044.2	3128.8	3213.6	3284.9	3333.8	3373.9	3391.9	3391.9
12.5°	2879.2	2932.7	3039.7	3168.9	3262.6	3342.8	3382.8	3405.2	3423.0	3440.8	3445.3
15°	2968.3	3026.4	3155.6	3293.7	3391.9	3432.0	3432.0	3427.5	3427.5	3436.3	3445.3
17.5°	3057.5	3119.9	3253.6	3400.7	3463.1	3440.8	3409.7	3396.3	3387.4	3382.8	3396.3
20°	3151.1	3213.6	3347.2	3485.4	3467.6	3373.9	3329.3	3298.2	3271.4	3258.1	3275.9
22.5°	3253.6	3311.5	3449.8	3543.4	3409.7	3267.0	3182.2	3133.3	3088.8	3062.0	3079.8
25°	3373.9	3432.0	3565.5	3561.2	3307.1	3106.6	2972.8	2892.6	2843.6	2816.8	2816.8
27.5°	3516.6	3565.5	3694.8	3516.6	3164.4	2892.6	2696.5	2620.7	2607.4	2585.1	2585.1
30°	3663.7	3703.8	3815.3	3414.2	2968.3	2611.9	2397.9	2362.1	2366.7	2344.3	2348.8
32.5°	3815.3	3855.3	3886.6	3262.6	2714.3	2295.3	2152.7	2125.9	2121.6	2103.7	2085.9
35°	4029.2	4087.1	3895.4	3057.5	2406.8	2032.4	1929.8	1903.2	1876.4	1814.0	1814.0
37.5°	4354.5	4417.0	3873.1	2803.5	2090.3	1827.4	1733.8	1698.1	1653.5	1591.2	1568.9
40°	4800.2	4800.2	3824.1	2518.2	1836.3	1662.5	1573.4	1528.7	1479.7	1417.3	1404.0
42.5°	5326.2	5201.4	3748.3	2228.6	1649.0	1551.1	1470.8	1421.8	1363.9	1292.5	1283.6
45°	5941.2	5602.5	3641.4	1970.1	1510.9	1484.2	1435.1	1350.5	1252.4	1176.6	1163.3
47.5°	6538.4	5963.5	3538.9	1787.3	1395.0	1457.4	1417.3	1274.7	1141.0	1034.0	1020.7
50°	7193.6	6284.4	3418.5	1635.7	1305.8	1439.6	1395.0	1163.3	1016.2	940.4	931.6
52.5°	7848.8	6609.7	3289.2	1475.3	1230.1	1404.0	1341.6	1083.1	1011.7	909.2	895.8
55°	8539.7	6988.7	3137.7	1297.0	1141.0	1332.6	1270.2	1078.6	1043.0	909.2	878.0
57.5°	9212.6	7407.6	2892.6	1123.1	1043.0	1225.7	1243.5	1051.8	976.1	900.3	864.7
60°	9957.1	7853.2	2487.1	976.1	958.3	1136.6	1207.9	993.9	900.3	873.5	855.7
62.5°	10554.2	8254.4	1943.2	873.5	886.9	1065.3	1163.3	958.3	869.1	846.9	842.4
65°	10812.8	8263.3	1395.0	784.5	815.6	998.4	1118.7	927.1	842.4	833.4	829.1
67.5°	10540.9	7808.8	980.5	699.8	739.9	936.1	1060.8	895.8	815.6	820.1	811.1
70°	9662.8	6850.4	717.7	619.5	668.5	869.1	998.4	855.7	784.5	793.3	780.0
72.5°	8085.0	5339.5	574.9	552.7	610.6	797.8	936.1	811.1	735.5	739.9	713.1
75°	5972.4	3538.9	481.4	494.7	543.8	731.0	855.7	753.3	681.9	664.1	646.3
77.5°	3552.2	1818.5	396.7	432.3	485.7	650.7	766.6	681.9	624.0	592.7	579.4
80°	1466.4	735.5	325.4	365.5	423.4	579.4	677.5	597.2	557.1	526.0	508.0
82.5°	583.9	361.0	258.5	298.6	356.5	503.6	592.7	526.0	485.7	463.5	414.5
85°	222.9	178.3	173.8	209.4	267.4	387.8	490.2	441.3	410.0	352.2	338.7
87.5°	89.1	80.2	80.2	102.4	151.6	245.2	352.2	307.6	320.9	254.0	258.5
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)