

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: P478645

Luminaire Tested: **IFLD-M-SA4B-760-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-760-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

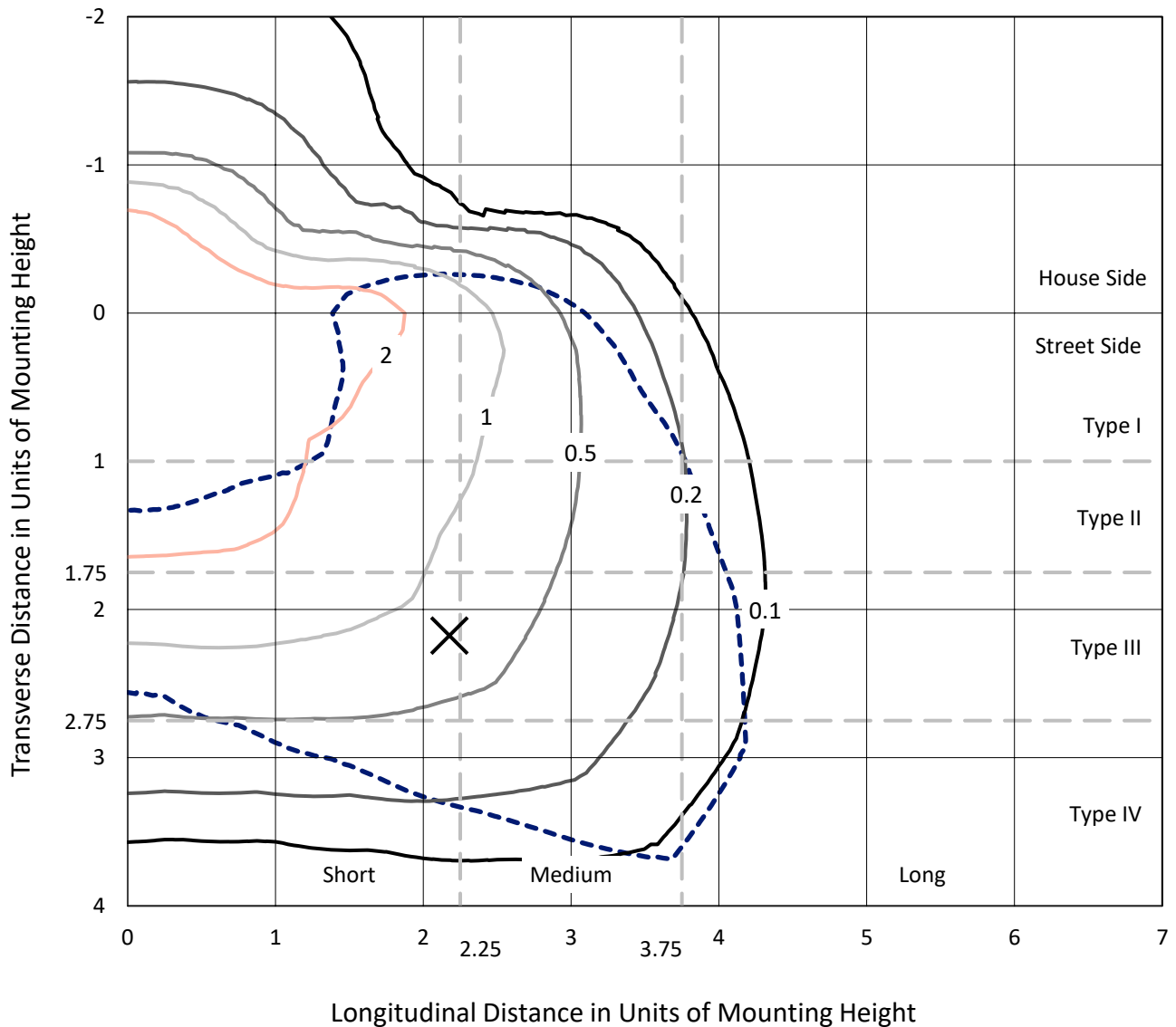
Lumens per Lamp: N/A
Luminaire Lumens: 23614.3 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 166.1
Input Voltage (V): 120
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

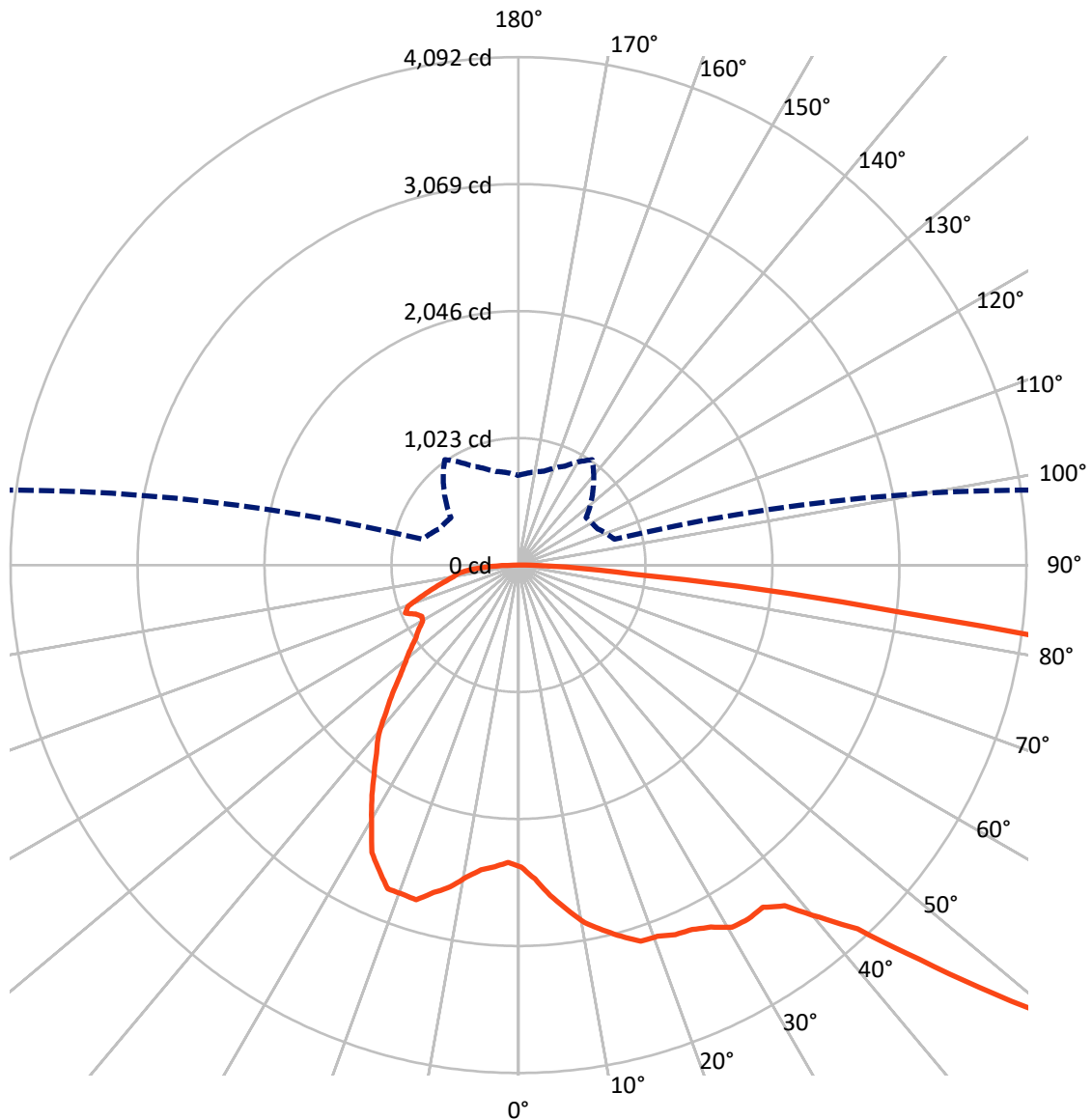
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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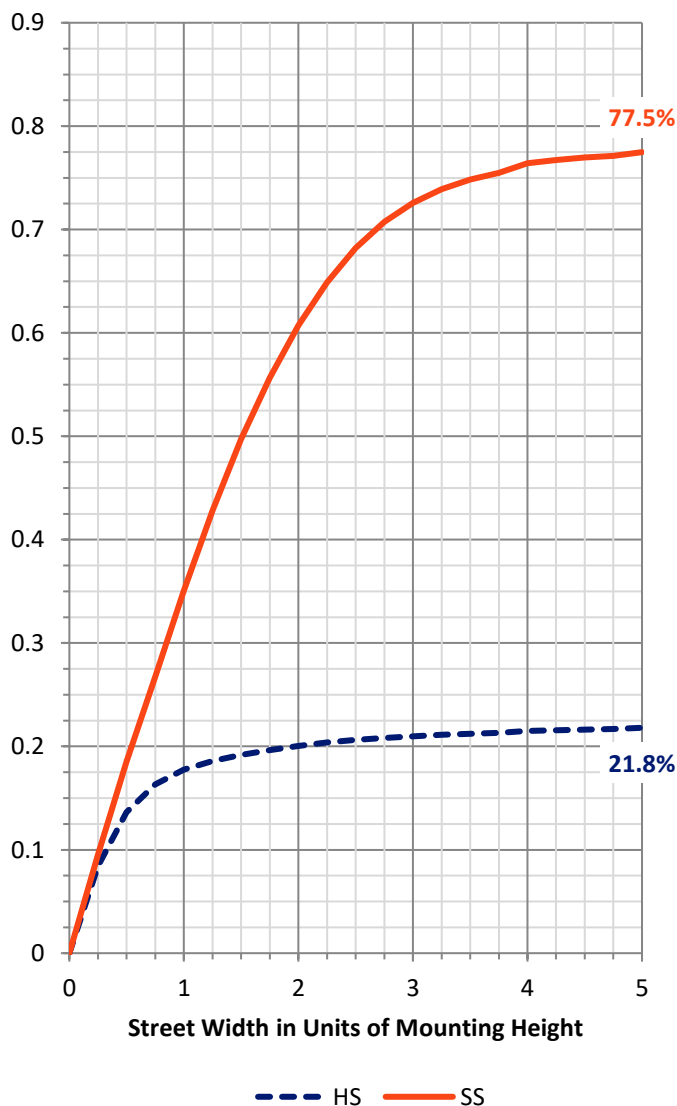
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5256.7	0.0	5256.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18357.6	0.0	18357.6
	% Fixture	77.7	0.0	77.7
Total	Lumens	23614.3	0.0	23614.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.8	1.1
10°-20°	827.9	3.5
20°-30°	1398.1	5.9
30°-40°	1934.8	8.2
40°-50°	2767.5	11.7
50°-60°	4463.7	18.9
60°-70°	6583.3	27.9
70°-80°	4780.6	20.2
80°-90°	609.4	2.6
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°	23614.3	100.0
0°-180°	23614.3	100.0

Coefficient of Utilization



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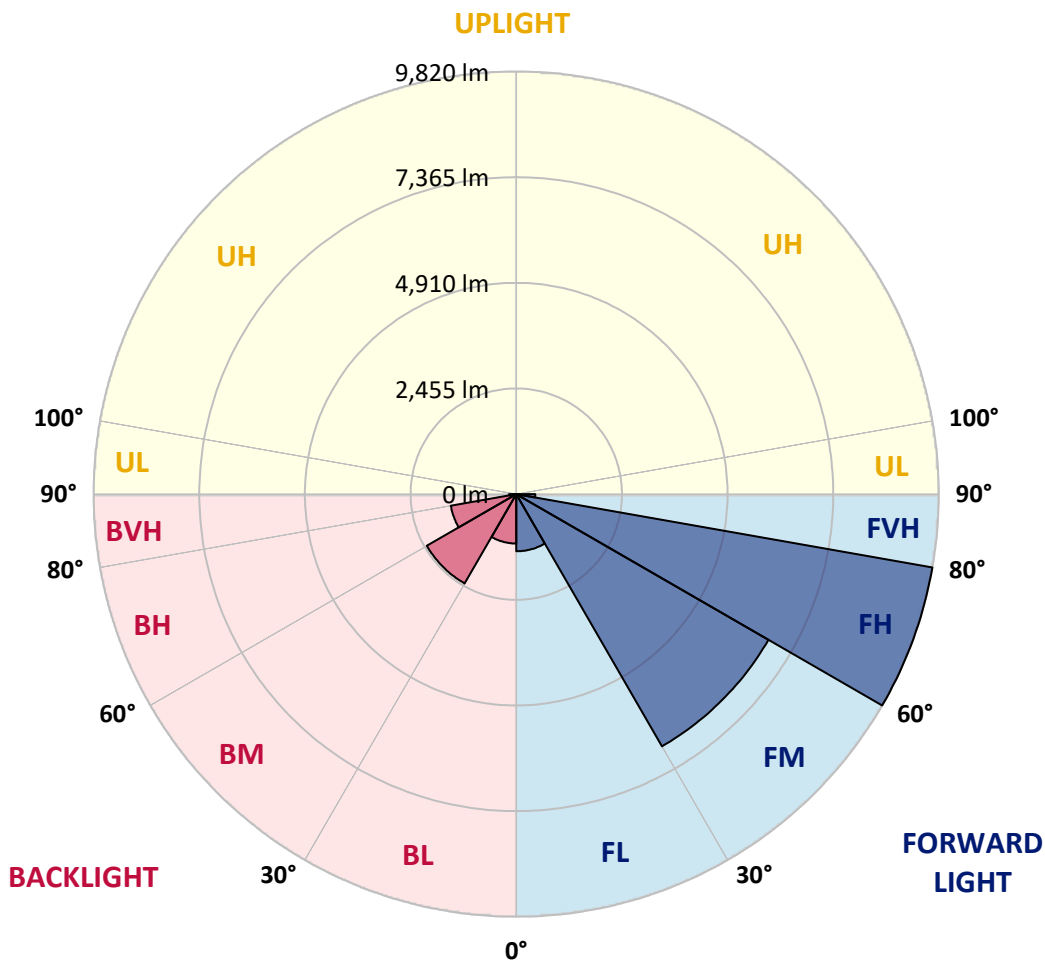
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.1	5.6			
FM (30°-60°)	6767.0	28.7			
FH (60°-80°)	9819.9	41.6			G4/12000
FVH (80°-90°)	443.6	1.9			G3/500
BL (0°-30°)	1147.8	4.9	B3/2500		
BM (30°-60°)	2399.0	10.2	B2/2500		
BH (60°-80°)	1544.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	165.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2561.7	2577.0	2561.7	2559.2	2533.7	2515.9	2531.2	2508.2	2482.8	2472.6	2449.7
5°	2796.0	2798.5	2770.5	2773.1	2719.6	2663.6	2673.8	2605.0	2531.2	2503.1	2457.3
7.5°	3035.4	3007.3	2966.6	2953.9	2869.8	2808.7	2801.1	2740.0	2625.4	2561.7	2498.1
10°	3190.7	3200.9	3134.7	3078.6	3007.3	2933.5	2930.9	2816.4	2750.2	2655.9	2574.4
12.5°	3328.2	3330.7	3274.7	3185.6	3096.5	3004.8	3017.5	2966.6	2854.6	2765.4	2683.9
15°	3435.1	3419.9	3358.7	3277.3	3183.0	3111.7	3104.1	3060.8	2966.6	2892.8	2757.8
17.5°	3465.7	3458.1	3396.9	3310.4	3218.7	3165.2	3185.6	3114.3	3076.1	3009.9	2880.0
20°	3407.1	3389.3	3379.1	3282.4	3216.1	3211.1	3193.2	3208.5	3144.8	3083.7	2989.5
22.5°	3300.2	3292.5	3287.4	3211.1	3180.5	3203.4	3234.0	3256.9	3246.7	3188.1	3081.2
25°	3190.7	3226.3	3193.2	3157.6	3200.9	3259.4	3251.8	3325.6	3325.6	3307.8	3218.7
27.5°	3267.1	3244.2	3218.7	3200.9	3216.1	3307.8	3302.7	3391.9	3425.0	3391.9	3290.0
30°	3458.1	3435.1	3361.3	3282.4	3262.0	3361.3	3386.8	3465.7	3481.0	3399.5	3312.9
32.5°	3817.1	3804.4	3687.2	3455.5	3330.7	3386.8	3399.5	3488.6	3475.9	3425.0	3389.3
35°	4349.3	4306.0	4143.1	3750.9	3475.9	3419.9	3386.8	3458.1	3506.4	3481.0	3447.9
37.5°	4932.4	4884.1	4682.9	4186.3	3738.2	3509.0	3483.5	3542.1	3598.1	3585.4	3516.6
40°	5490.1	5490.1	5309.3	4731.3	4127.8	3725.4	3730.5	3664.3	3715.3	3692.3	3705.1
42.5°	6040.1	6019.8	5945.9	5370.4	4545.4	4087.0	4005.5	3840.0	3931.7	3924.1	3941.9
45°	6597.8	6582.5	6562.2	5966.3	5143.8	4575.9	4532.7	4234.7	4318.8	4283.1	4359.5
47.5°	7043.4	7061.3	7061.3	6630.9	5783.0	5227.8	5164.2	4693.1	4853.5	4871.3	4889.2
50°	7422.9	7430.5	7422.9	7265.0	6496.0	5973.9	5844.1	5365.3	5525.8	5665.8	5828.8
52.5°	7947.4	7957.6	7922.0	7860.8	7463.6	6758.2	6613.1	6080.9	6409.4	6557.1	6849.9
55°	8594.2	8517.8	8451.6	8497.5	8393.1	7621.5	7471.2	6819.4	7313.4	7509.4	8095.1
57.5°	8713.9	8780.1	8948.2	9312.3	9462.6	8461.8	8375.2	7725.9	8334.5	8505.1	9482.9
60°	9136.6	9027.1	9439.6	10229.0	10397.1	9556.8	9467.6	8719.0	9350.5	9528.8	10763.8
62.5°	9414.2	9409.1	10020.2	10957.3	11339.3	10692.5	10511.7	10010.0	10448.0	10621.2	12159.2
65°	9332.7	9406.5	10491.3	11385.1	12126.1	11983.5	11879.1	11120.3	11698.3	11683.0	13068.3
67.5°	8589.1	8797.9	10193.4	11693.2	13297.5	13557.2	13524.1	12681.3	12714.4	12391.0	13473.2
70°	7557.8	7486.5	8932.9	11372.4	13883.2	15423.8	15416.1	13842.4	13628.5	12546.3	12312.0
72°	5805.9	5726.9	6916.1	9765.6	13575.1	16169.9	16399.0	14647.1	13618.3	11902.0	10170.5
72.5°	5271.1	5202.4	6386.5	9192.6	13233.8	16363.4	16256.4	14677.7	13511.4	11599.0	9500.8
75°	2426.8	2347.8	3190.7	5627.6	10323.3	14499.4	14863.5	13735.5	11800.2	9233.4	5691.3
77.5°	723.2	700.3	1026.2	2271.4	5999.4	10682.3	10822.4	10364.0	8237.7	5057.2	2111.0
80°	402.3	404.9	529.7	850.5	2638.1	6175.1	6679.3	6401.7	4041.2	1670.5	702.8
82.5°	224.1	236.8	331.0	504.2	1212.1	2834.2	3050.6	2941.1	1461.7	784.3	384.5
85°	117.1	122.2	173.2	269.9	687.5	896.3	921.8	988.0	758.8	534.8	206.3
87.5°	45.8	45.8	63.7	112.0	254.6	277.6	249.6	303.0	435.4	346.3	101.9
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°	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8	2431.8
2.5°	2470.0	2449.7	2447.1	2414.0	2424.2	2396.2	2398.7	2393.6	2396.2	2391.1	2378.4
5°	2457.3	2442.0	2398.7	2426.8	2401.3	2436.9	2465.0	2454.8	2462.4	2459.9	2462.4
7.5°	2475.1	2454.8	2449.7	2434.4	2457.3	2472.6	2495.5	2559.2	2554.1	2561.7	2577.0
10°	2528.6	2505.7	2490.4	2513.3	2500.6	2549.0	2574.4	2607.6	2666.1	2668.7	2638.1
12.5°	2633.0	2617.7	2587.2	2592.3	2635.6	2650.8	2666.1	2686.5	2724.7	2717.0	2745.1
15°	2752.7	2719.6	2701.8	2696.7	2706.9	2724.7	2722.1	2742.5	2762.9	2780.7	2773.1
17.5°	2839.3	2796.0	2801.1	2826.5	2824.0	2818.9	2785.8	2775.6	2785.8	2796.0	2790.9
20°	2928.4	2933.5	2895.3	2872.4	2862.2	2811.3	2785.8	2755.2	2724.7	2740.0	2762.9
22.5°	3040.4	3017.5	2961.5	2892.8	2841.8	2811.3	2732.3	2678.9	2678.9	2694.1	2686.5
25°	3167.8	3119.4	3022.6	2897.8	2834.2	2704.3	2648.3	2640.7	2620.3	2643.2	2653.4
27.5°	3267.1	3223.8	3091.4	2880.0	2704.3	2599.9	2566.8	2556.6	2589.7	2592.3	2633.0
30°	3307.8	3295.1	3101.6	2834.2	2571.9	2403.8	2383.5	2429.3	2465.0	2518.4	2521.0
32.5°	3361.3	3366.4	3116.8	2727.2	2398.7	2230.7	2200.1	2256.1	2358.0	2401.3	2434.4
35°	3450.4	3475.9	3104.1	2594.8	2215.4	2055.0	2049.9	2065.2	2164.5	2240.9	2284.2
37.5°	3605.8	3600.7	3101.6	2436.9	2070.3	1902.2	1861.4	1866.5	1932.7	1996.4	1988.8
40°	3814.6	3794.2	3093.9	2230.7	1881.8	1772.3	1703.6	1678.1	1673.0	1655.2	1660.3
42.5°	4099.8	4059.0	3091.4	2021.9	1711.2	1594.1	1545.7	1479.5	1431.1	1339.4	1344.5
45°	4497.0	4425.7	3025.2	1825.8	1543.1	1446.4	1372.5	1324.1	1219.7	1105.2	1105.2
47.5°	5110.7	4879.0	3027.7	1609.3	1380.2	1301.2	1250.3	1166.3	1054.2	962.6	952.4
50°	6014.7	5485.0	2941.1	1438.7	1247.8	1194.3	1140.8	1044.0	937.1	873.4	881.1
52.5°	7180.9	6389.0	2938.6	1286.0	1143.3	1105.2	1046.6	960.0	881.1	840.3	825.0
55°	8571.3	7585.8	3030.3	1161.2	1036.4	1016.0	990.6	919.3	842.9	807.2	804.7
57.5°	9994.8	8754.6	3178.0	1072.0	944.7	960.0	942.2	886.2	825.0	784.3	779.2
60°	11260.3	9681.5	2880.0	965.1	863.2	896.3	921.8	873.4	840.3	837.8	820.0
62.5°	12215.3	10078.8	2189.9	883.6	820.0	881.1	949.8	980.4	965.1	985.5	988.0
65°	12564.1	9839.4	1507.5	840.3	786.8	916.7	1069.5	1059.3	970.2	932.0	952.4
67.5°	12075.2	8869.2	1117.9	789.4	763.9	990.6	1138.3	1010.9	876.0	870.9	855.6
70°	10384.4	7517.1	911.6	735.9	725.7	949.8	1107.7	937.1	825.0	791.9	776.7
72°	8273.4	5854.3	799.6	697.7	664.6	848.0	1036.4	878.5	781.8	741.0	723.2
72.5°	7552.7	5426.5	784.3	679.9	651.9	825.0	1000.7	860.7	771.6	735.9	707.9
75°	4143.1	2778.2	690.1	623.9	550.0	713.0	926.9	807.2	728.3	677.4	672.3
77.5°	1540.6	1077.1	595.9	552.6	476.2	616.2	842.9	766.5	662.1	598.4	585.7
80°	590.8	567.9	486.4	466.0	399.8	539.8	776.7	687.5	562.8	499.1	478.7
82.5°	359.0	331.0	369.2	364.1	305.6	491.5	730.8	644.2	499.1	404.9	392.2
85°	196.1	196.1	257.2	247.0	213.9	392.2	552.6	427.8	315.8	259.7	264.8
87.5°	86.6	101.9	137.5	129.9	117.1	221.5	269.9	226.6	157.9	107.0	114.6
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)