

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: P481336

Luminaire Tested: **IFLD-M-SA4B-750-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481336  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-750-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

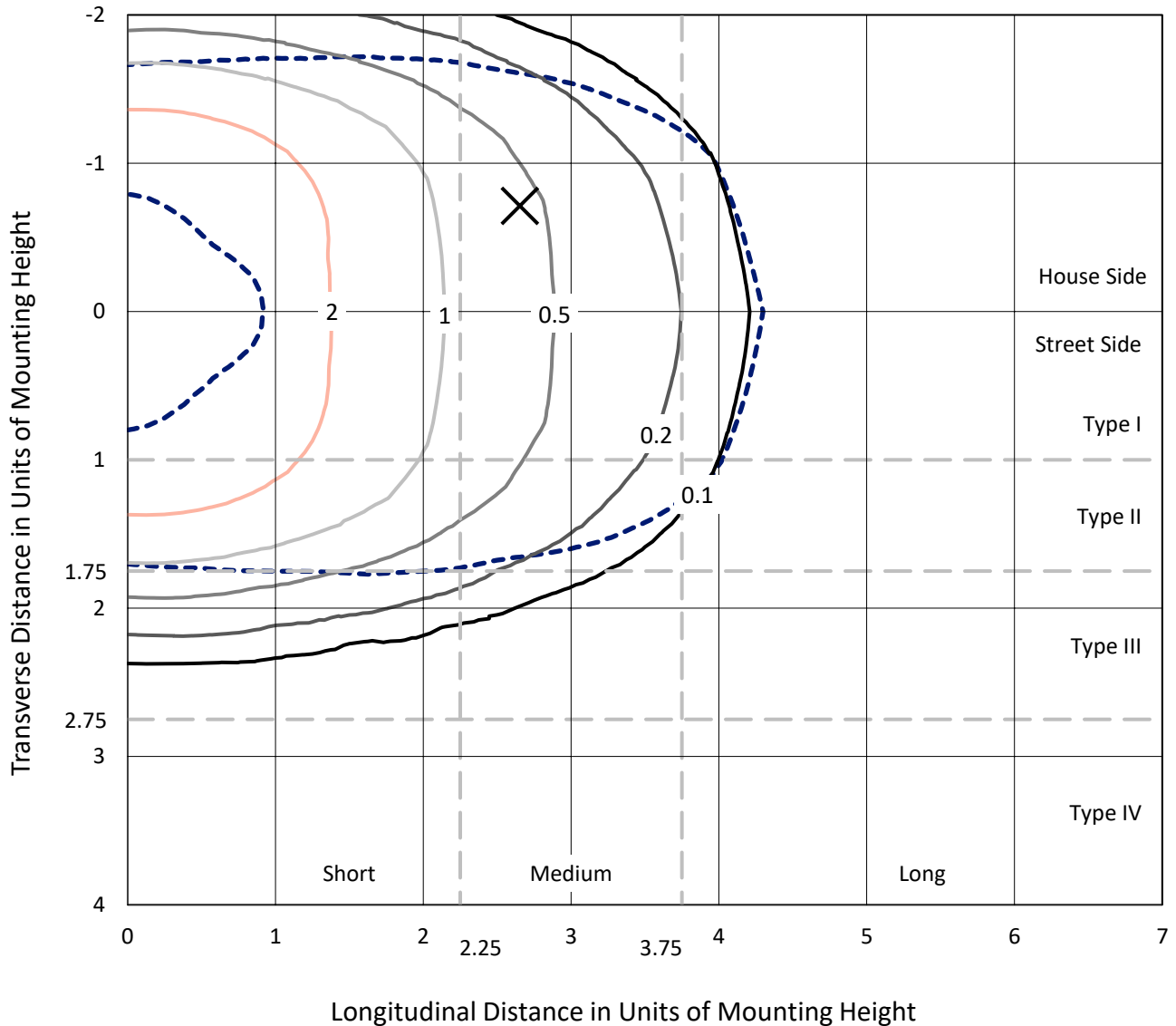
Lumens per Lamp: N/A  
Luminaire Lumens: 24064 lumens  
Efficiency: N/A  
Efficacy: 144.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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

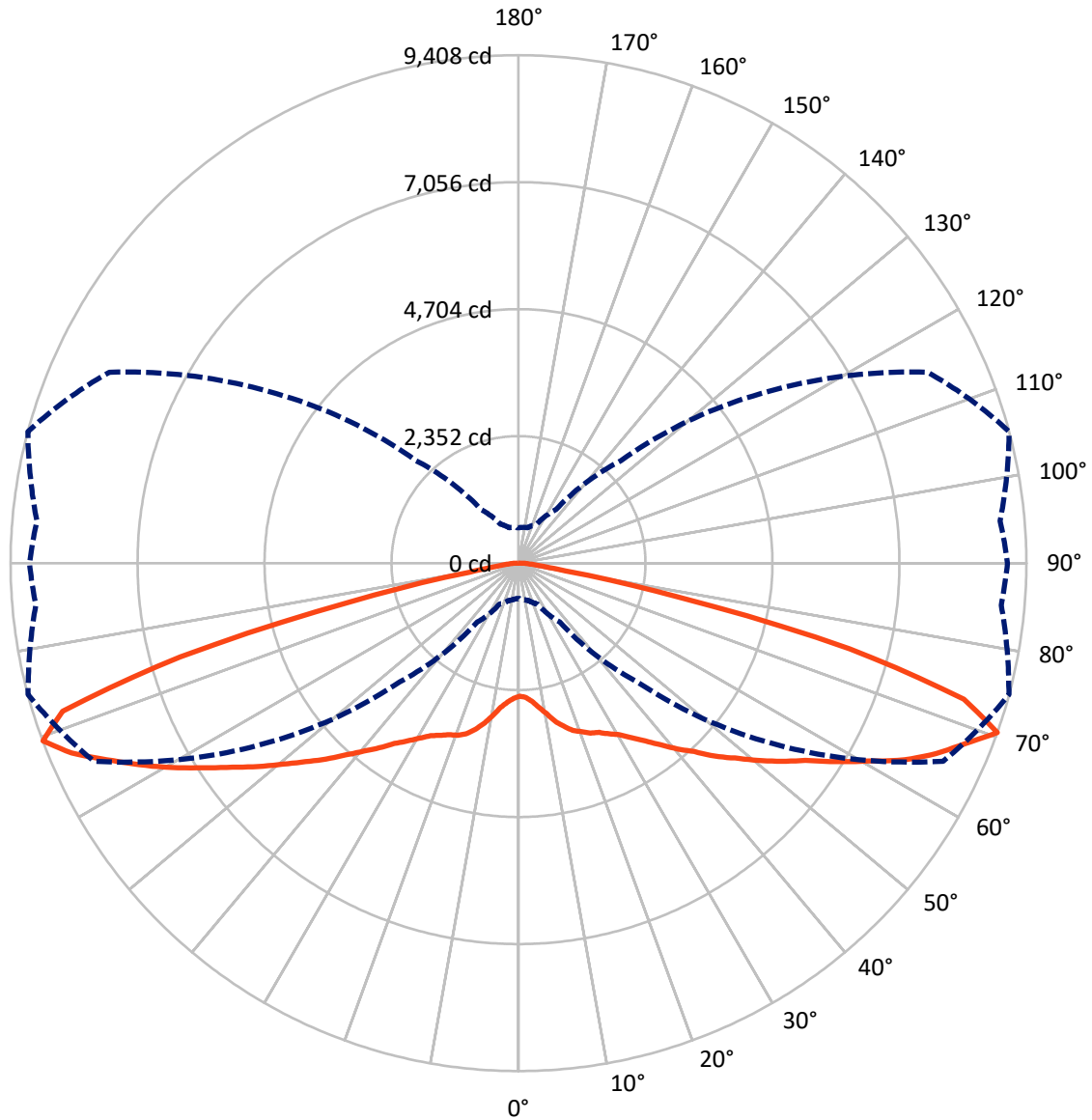
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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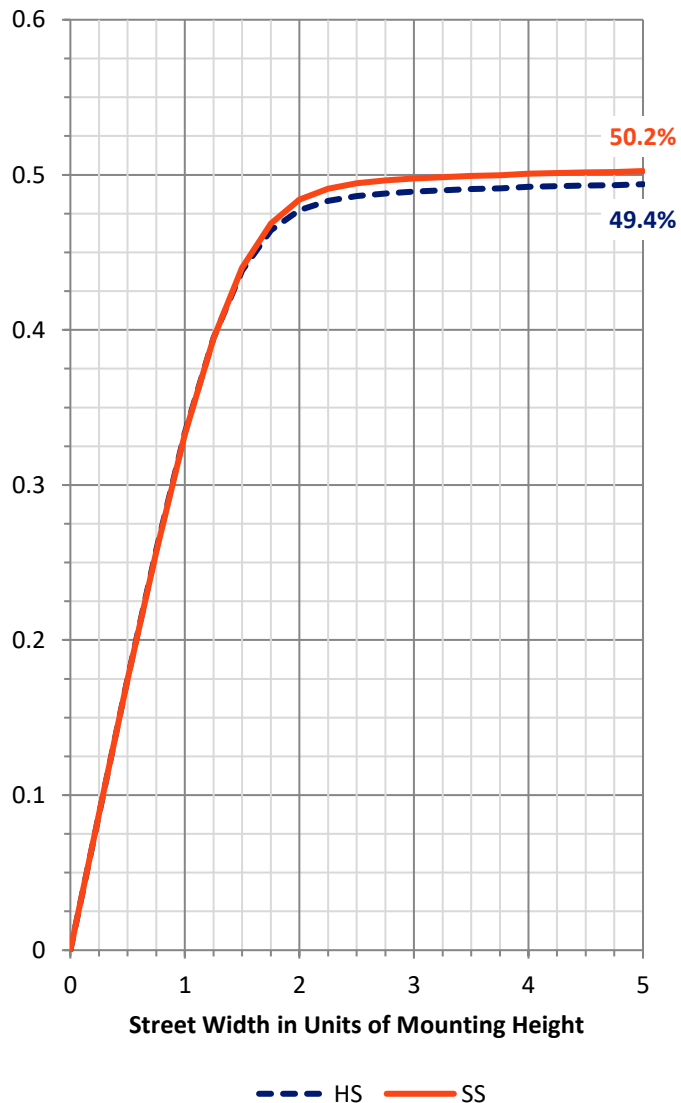
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11946.4	0.0	11946.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	12117.6	0.0	12117.6
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	24064.0	0.0	24064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	245.3	1.0
10°-20°	835.1	3.5
20°-30°	1617.0	6.7
30°-40°	2735.1	11.4
40°-50°	4363.3	18.1
50°-60°	5972.4	24.8
60°-70°	5629.4	23.4
70°-80°	2479.9	10.3
80°-90°	186.6	0.8
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°	24064.0	100.0
0°-180°	24064.0	100.0

**Coefficient of Utilization**



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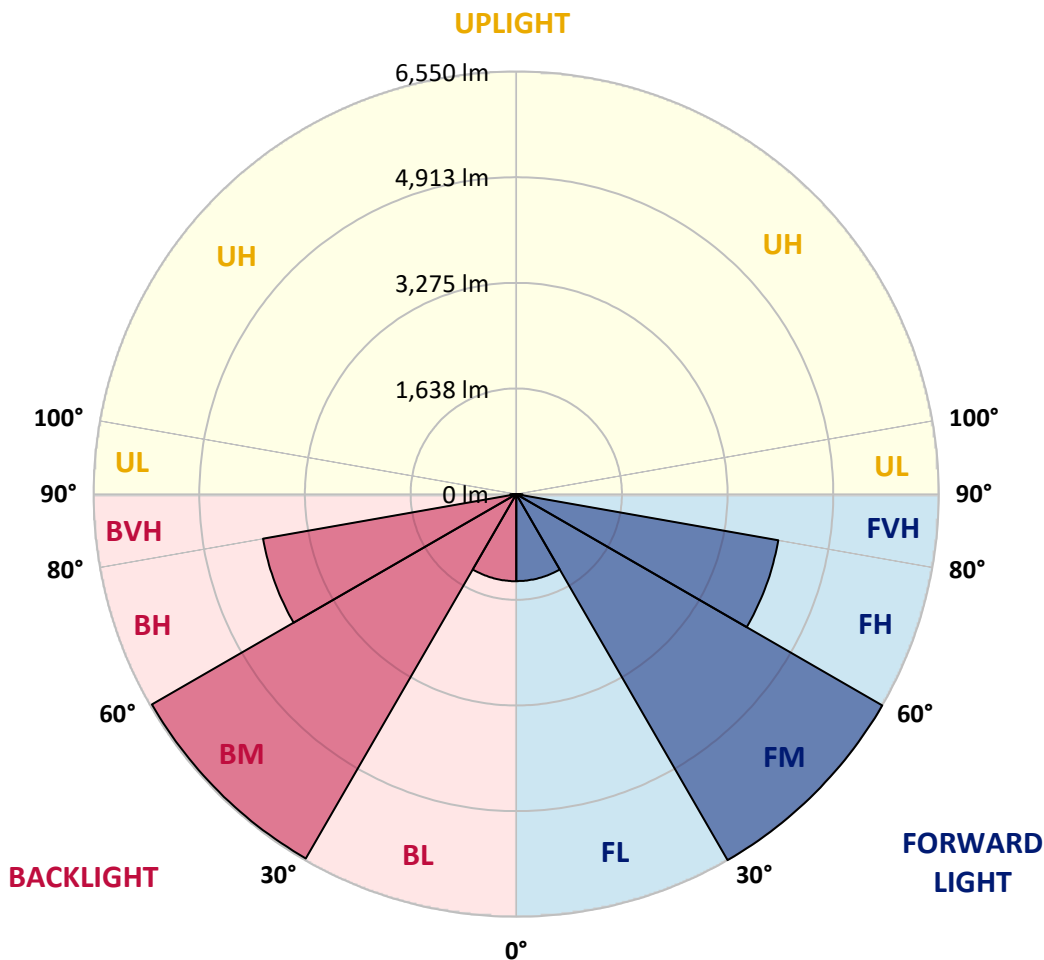
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.0	5.6			
FM (30°-60°)	6550.0	27.2			
FH (60°-80°)	4124.3	17.1			G2/5000
FVH (80°-90°)	95.3	0.4			G1/100
BL (0°-30°)	1349.4	5.6	B3/2500		
BM (30°-60°)	6520.7	27.1	B4/8500		
BH (60°-80°)	3985.0	16.6	B4/5000		G4/5000
BVH (80°-90°)	91.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1
2.5°	2448.6	2448.6	2446.0	2458.9	2471.9	2477.1	2487.5	2490.1	2505.6	2492.7	2518.6
5°	2440.8	2438.2	2458.9	2490.1	2490.1	2523.8	2544.5	2573.1	2580.8	2596.4	2601.6
7.5°	2495.3	2490.1	2479.7	2513.4	2541.9	2593.8	2622.4	2671.6	2689.8	2710.5	2733.9
10°	2529.0	2529.0	2518.6	2578.3	2604.2	2674.2	2736.5	2785.8	2855.8	2879.1	2881.7
12.5°	2534.2	2541.9	2573.1	2650.9	2723.5	2814.3	2861.0	2954.4	3024.4	3068.5	3084.1
15°	2612.0	2596.4	2630.1	2736.5	2842.8	2923.2	3006.2	3073.7	3174.8	3231.9	3268.2
17.5°	2682.0	2666.4	2728.7	2855.8	2964.7	3089.2	3161.9	3234.5	3307.1	3359.0	3361.6
20°	2793.5	2806.5	2861.0	2998.5	3141.1	3250.1	3333.1	3346.0	3382.3	3457.6	3444.6
22.5°	2931.0	2920.6	3034.8	3185.2	3340.8	3431.6	3478.3	3444.6	3426.4	3506.8	3525.0
25°	3068.5	3099.6	3203.4	3343.4	3530.2	3652.1	3665.1	3571.7	3504.2	3532.8	3525.0
27.5°	3278.6	3283.8	3392.7	3558.7	3748.1	3854.4	3846.6	3714.3	3584.7	3587.3	3592.4
30°	3548.3	3522.4	3641.7	3792.2	3978.9	4074.9	4087.9	3898.5	3724.7	3672.8	3685.8
32.5°	3807.7	3838.9	3942.6	4113.8	4251.3	4305.7	4277.2	4108.6	3882.9	3812.9	3820.7
35°	4139.7	4134.5	4277.2	4422.5	4526.2	4536.6	4513.2	4266.8	4054.1	3963.4	3927.0
37.5°	4495.1	4541.8	4635.2	4754.5	4863.4	4868.6	4741.5	4544.4	4282.4	4132.0	4176.0
40°	4891.9	4943.8	5011.3	5185.0	5265.5	5182.4	5052.8	4785.6	4513.2	4381.0	4401.7
42.5°	5242.1	5265.5	5402.9	5607.8	5646.7	5610.4	5418.5	5094.3	4777.8	4632.6	4642.9
45°	5563.7	5594.9	5773.8	5958.0	6048.8	5986.5	5763.5	5454.8	5086.5	4962.0	4912.7
47.5°	5859.4	5921.7	6095.5	6284.8	6424.9	6430.1	6155.1	5781.6	5392.5	5229.1	5226.5
50°	6059.2	6149.9	6321.1	6536.4	6741.3	6821.7	6546.8	6144.8	5727.2	5553.4	5535.2
52.5°	6168.1	6261.5	6432.7	6767.3	6995.5	7120.0	6990.3	6484.5	6118.8	5937.3	5908.7
55°	6035.8	6098.1	6378.2	6847.7	7200.4	7405.4	7319.8	6954.0	6507.9	6360.0	6386.0
57.5°	5473.0	5602.6	5947.6	6533.8	7195.3	7698.5	7690.7	7397.6	6956.6	6816.6	6821.7
60°	4505.5	4614.4	5039.8	5859.4	6904.7	7817.8	8092.7	7828.1	7459.8	7296.4	7291.2
62.5°	3180.0	3317.5	3810.3	4705.2	6048.8	7651.8	8554.4	8370.3	7952.6	7833.3	7877.4
65°	1779.4	1862.4	2318.9	3128.1	4609.2	6738.7	8637.4	8933.1	8453.3	8271.7	8279.5
67.5°	951.9	983.1	1195.8	1641.9	2819.5	5195.4	7799.6	9257.3	8995.4	8681.5	8632.2
70°	653.6	664.0	718.5	840.4	1333.2	3107.4	5882.8	8678.9	9402.6	8974.6	9057.6
72.5°	552.5	547.3	560.3	573.2	697.7	1390.3	3452.4	6679.1	8876.0	8715.2	8684.1
75°	479.9	477.3	482.5	469.5	485.0	612.1	1527.8	4163.1	6497.5	7252.3	7369.0
77.5°	396.9	399.4	402.0	389.1	383.9	404.6	614.7	1828.6	3198.2	3530.2	3807.7
80°	300.9	306.1	326.8	313.9	293.1	295.7	363.1	612.1	918.2	832.6	858.6
82.5°	204.9	207.5	251.6	236.0	220.5	199.7	233.4	316.4	357.9	272.4	238.6
85°	145.3	142.7	163.4	150.4	140.1	101.2	140.1	179.0	215.3	134.9	121.9
87.5°	33.7	33.7	67.4	54.5	51.9	41.5	54.5	70.0	93.4	59.7	54.5
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1	2464.1
2.5°	2510.8	2487.5	2487.5	2482.3	2461.5	2456.3	2438.2	2443.4	2430.4	2417.4
5°	2599.0	2567.9	2567.9	2523.8	2482.3	2477.1	2456.3	2456.3	2435.6	2440.8
7.5°	2720.9	2692.4	2645.7	2606.8	2549.7	2526.4	2487.5	2482.3	2477.1	2466.7
10°	2866.2	2829.9	2783.2	2702.8	2656.1	2612.0	2573.1	2518.6	2505.6	2508.2
12.5°	3063.3	3006.2	2905.1	2835.0	2775.4	2718.3	2661.3	2580.8	2562.7	2570.5
15°	3203.4	3130.7	3029.6	3003.6	2923.2	2853.2	2759.8	2669.0	2637.9	2630.1
17.5°	3317.5	3257.8	3198.2	3159.3	3094.4	3008.8	2879.1	2775.4	2705.4	2697.6
20°	3410.9	3333.1	3320.1	3343.4	3263.0	3206.0	3047.7	2920.6	2827.3	2788.4
22.5°	3467.9	3418.7	3455.0	3475.7	3470.5	3374.6	3211.1	3063.3	2946.6	2910.3
25°	3530.2	3473.1	3602.8	3672.8	3691.0	3532.8	3405.7	3211.1	3097.0	3073.7
27.5°	3561.3	3582.1	3732.5	3880.4	3867.4	3745.5	3574.3	3400.5	3309.7	3268.2
30°	3652.1	3685.8	3914.1	4080.1	4082.7	3963.4	3833.7	3636.5	3535.4	3517.2
32.5°	3815.5	3857.0	4100.8	4277.2	4308.3	4217.5	4087.9	3965.9	3862.2	3820.7
35°	3940.0	4046.4	4321.3	4482.1	4565.1	4510.7	4438.0	4310.9	4202.0	4165.7
37.5°	4119.0	4266.8	4531.4	4749.3	4842.7	4837.5	4783.0	4645.5	4554.7	4523.6
40°	4375.8	4523.6	4764.8	5052.8	5226.5	5218.8	5187.6	5081.3	4946.4	4930.8
42.5°	4648.1	4770.0	5083.9	5413.3	5662.3	5636.4	5553.4	5428.9	5335.5	5314.7
45°	4912.7	5102.0	5392.5	5815.3	6002.1	6066.9	5968.4	5755.7	5649.3	5636.4
47.5°	5244.7	5395.1	5758.3	6137.0	6414.5	6424.9	6256.3	6059.2	5864.6	5906.1
50°	5540.4	5740.1	6108.4	6523.5	6855.5	6736.1	6520.9	6274.4	6134.4	6079.9
52.5°	5856.8	6100.7	6528.6	6951.4	7135.6	7016.3	6666.1	6391.2	6178.5	6155.1
55°	6318.5	6445.6	7005.9	7330.1	7389.8	7138.2	6622.0	6232.9	5958.0	5890.6
57.5°	6788.0	6935.9	7426.1	7706.2	7644.0	7070.7	6336.7	5734.9	5374.4	5278.4
60°	7262.7	7444.3	7856.7	8113.5	7791.8	6606.5	5530.0	4754.5	4334.3	4248.7
62.5°	7791.8	8027.9	8396.2	8487.0	7353.5	5688.2	4388.7	3431.6	3006.2	2863.6
65°	8261.3	8502.5	8956.5	8409.2	6422.3	4243.5	2837.6	1960.9	1647.1	1532.9
67.5°	8647.8	8920.1	9143.2	7441.7	4702.6	2484.9	1478.5	1032.3	915.6	874.1
70°	8953.9	9407.8	8365.1	5470.4	2687.2	1211.3	798.9	679.6	664.0	653.6
72.5°	8686.7	8627.0	6245.9	3156.7	1177.6	666.6	578.4	560.3	557.7	560.3
75°	7104.5	6336.7	3735.1	1372.1	591.4	482.5	479.9	472.1	485.0	485.0
77.5°	3447.2	3014.0	1561.5	588.8	389.1	378.7	391.7	391.7	391.7	391.7
80°	798.9	884.5	557.7	357.9	282.7	282.7	311.3	313.9	300.9	295.7
82.5°	272.4	363.1	306.1	225.7	186.8	210.1	236.0	241.2	199.7	202.3
85°	134.9	212.7	166.0	129.7	96.0	129.7	153.0	160.8	137.5	132.3
87.5°	62.3	93.4	62.3	44.1	33.7	46.7	44.1	36.3	20.8	20.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)