

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: P479386

Luminaire Tested: **IFLD-M-SA4B-750-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479386  
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-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

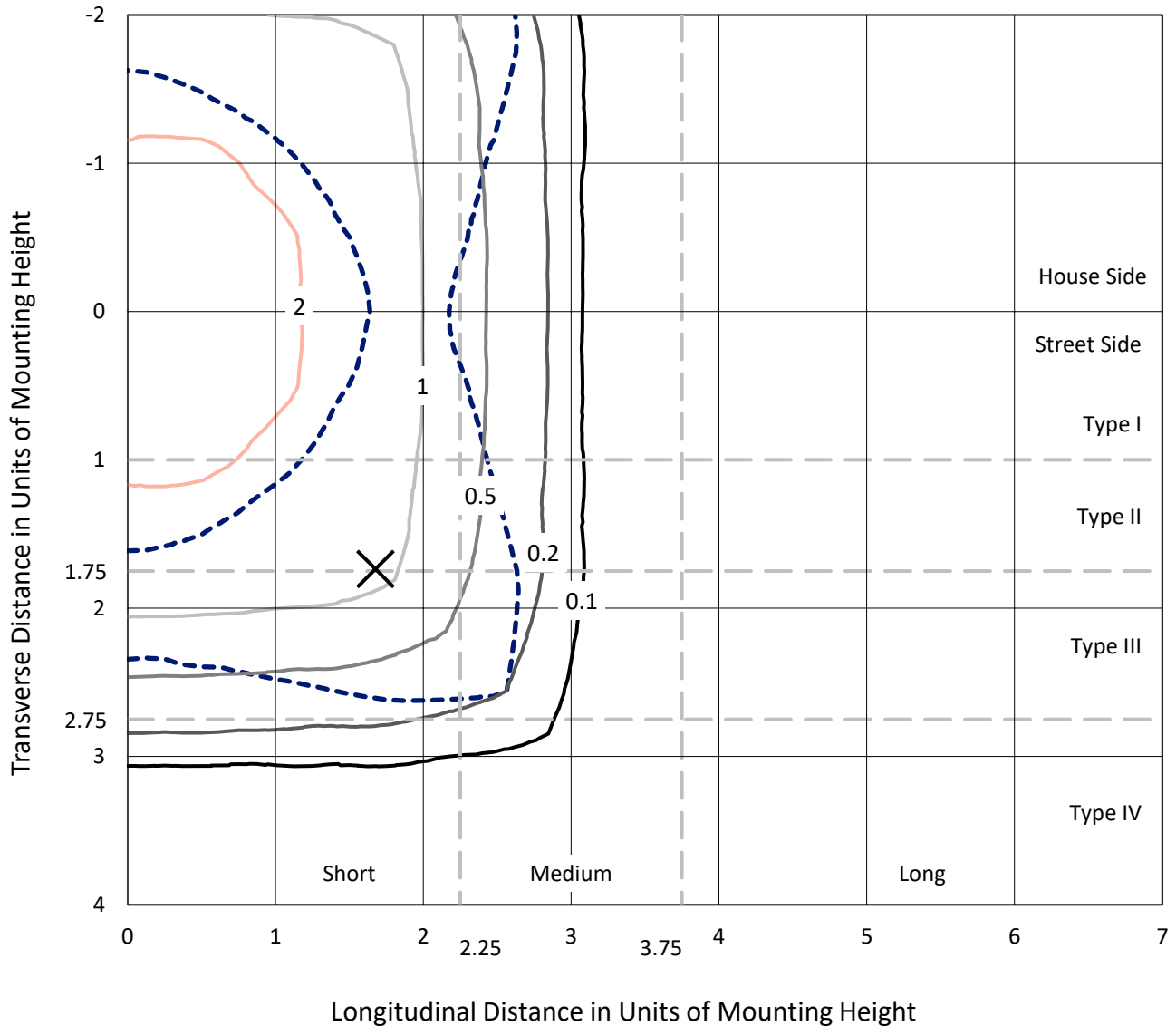
Lumens per Lamp: N/A  
Luminaire Lumens: 23582.3 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

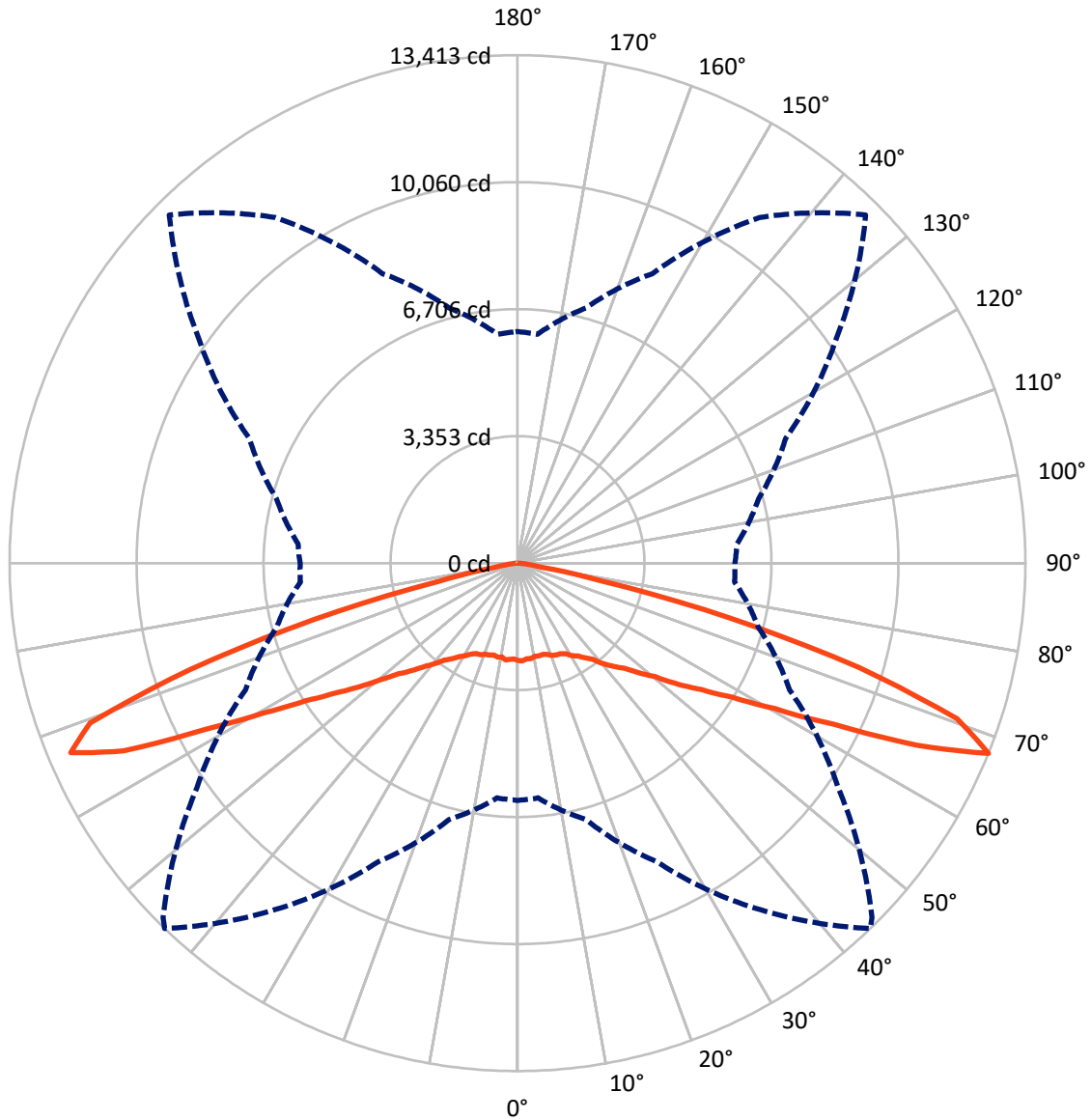
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type V - Short - N/A

REPORT NUMBER: P479386  
CATALOG NUMBER: IFLD-M-SA4B-750-U-5MQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11760.9	0.0	11760.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11821.3	0.0	11821.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	23582.3	0.0	23582.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.8	1.0
10°-20°	712.1	3.0
20°-30°	1211.0	5.1
30°-40°	1920.1	8.1
40°-50°	3131.0	13.3
50°-60°	5347.3	22.7
60°-70°	8133.2	34.5
70°-80°	2741.4	11.6
80°-90°	142.3	0.6
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°	23582.3	100.0
0°-180°	23582.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P479386

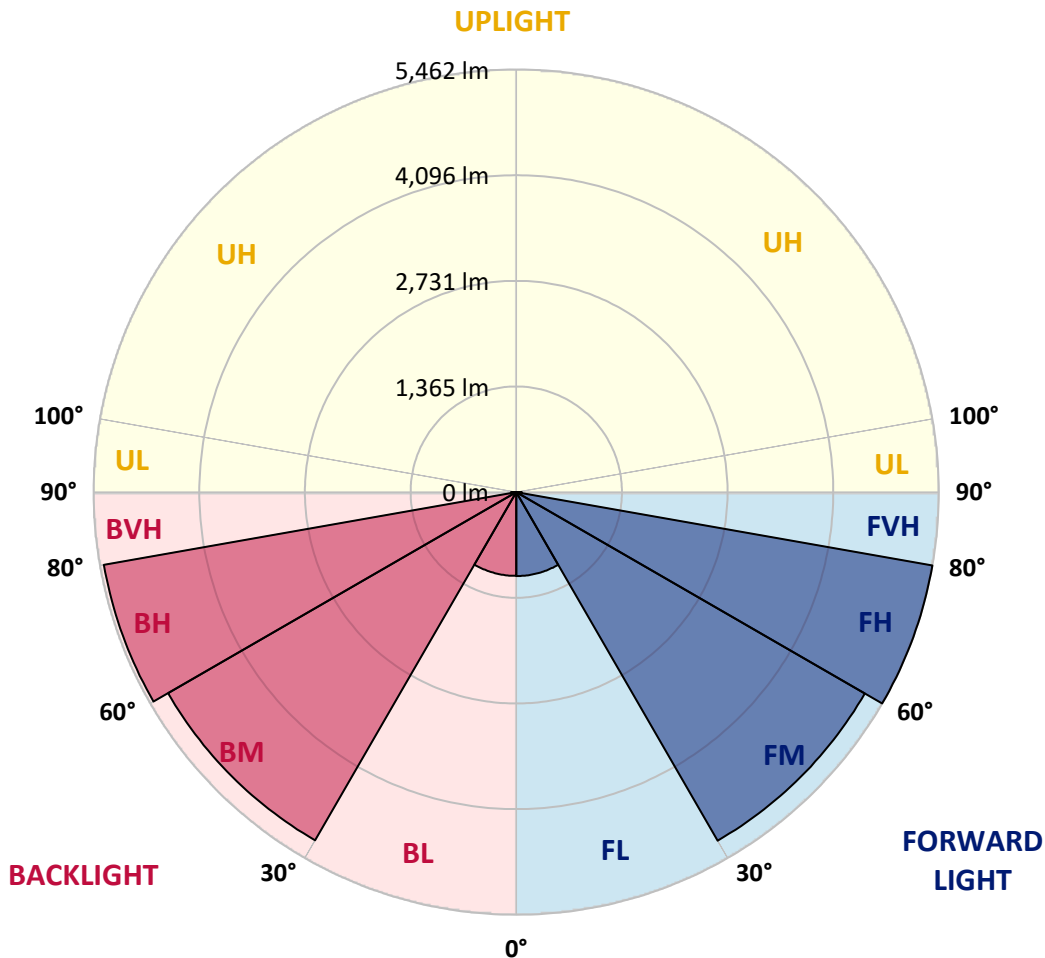
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1084.6	4.6			
FM (30°-60°)	5202.0	22.1			
FH (60°-80°)	5461.9	23.2			G3/7500
FVH (80°-90°)	72.8	0.3			G1/100
BL (0°-30°)	1082.4	4.6	B3/2500		
BM (30°-60°)	5196.4	22.0	B4/8500		
BH (60°-80°)	5412.7	23.0	B5		G3/7500
BVH (80°-90°)	69.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





REPORT NUMBER: P479386

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0
2.5°	2516.7	2546.3	2567.9	2565.2	2573.3	2581.3	2570.6	2586.7	2576.0	2594.8	2605.6
5°	2565.2	2557.1	2559.8	2543.7	2581.3	2538.3	2538.3	2559.8	2586.7	2554.4	2573.3
7.5°	2535.6	2530.2	2516.7	2541.0	2549.0	2549.0	2570.6	2530.2	2576.0	2586.7	2589.4
10°	2503.3	2473.7	2514.0	2538.3	2543.7	2500.6	2519.4	2530.2	2516.7	2530.2	2538.3
12.5°	2476.4	2492.5	2492.5	2492.5	2484.4	2514.0	2532.9	2530.2	2503.3	2527.5	2484.4
15°	2473.7	2465.6	2489.8	2511.4	2497.9	2503.3	2511.4	2535.6	2484.4	2495.2	2495.2
17.5°	2471.0	2481.7	2489.8	2487.1	2532.9	2532.9	2524.8	2508.7	2549.0	2527.5	2497.9
20°	2481.7	2473.7	2495.2	2503.3	2535.6	2600.2	2576.0	2562.5	2541.0	2514.0	2514.0
22.5°	2495.2	2489.8	2519.4	2554.4	2616.3	2632.5	2629.8	2613.6	2576.0	2543.7	2538.3
25°	2543.7	2495.2	2527.5	2594.8	2616.3	2648.6	2670.2	2648.6	2597.5	2605.6	2557.1
27.5°	2616.3	2608.3	2651.3	2697.1	2678.2	2707.9	2689.0	2705.2	2707.9	2667.5	2619.0
30°	2702.5	2678.2	2705.2	2794.0	2802.1	2834.4	2802.1	2759.0	2772.5	2737.5	2713.2
32.5°	2826.3	2818.2	2869.4	2928.6	2939.3	2923.2	2907.0	2931.3	2874.7	2847.8	2804.8
35°	2907.0	2942.0	3003.9	3049.7	3084.7	3068.5	3076.6	3052.4	3065.8	3009.3	2990.5
37.5°	3146.6	3133.1	3146.6	3224.7	3232.7	3224.7	3232.7	3259.6	3240.8	3192.4	3143.9
40°	3372.7	3351.2	3383.5	3472.3	3466.9	3493.8	3440.0	3469.6	3469.6	3378.1	3359.2
42.5°	3542.3	3615.0	3652.6	3725.3	3752.2	3728.0	3717.2	3722.6	3781.8	3674.2	3633.8
45°	3892.2	3889.5	4002.6	4042.9	3967.6	3962.2	3940.6	4005.3	4045.6	3983.7	3967.6
47.5°	4271.7	4290.6	4355.2	4371.3	4417.1	4333.6	4333.6	4341.7	4484.4	4339.0	4263.7
50°	4613.6	4637.8	4767.0	4893.5	4807.4	4718.6	4753.5	4796.6	4874.7	4737.4	4672.8
52.5°	5028.1	5160.0	5246.1	5313.4	5375.3	5313.4	5232.7	5281.1	5434.5	5251.5	5170.8
55°	5625.7	5730.6	5811.4	5935.2	5986.3	5902.9	5894.8	5889.4	5975.6	5781.8	5671.4
57.5°	6293.2	6250.1	6379.3	6570.4	6756.2	6675.4	6651.2	6656.6	6678.1	6403.6	6320.1
60°	7122.2	7170.7	7324.1	7491.0	7687.5	7800.5	7641.7	7550.2	7569.1	7194.9	7065.7
62.5°	7596.0	7703.6	8050.9	8624.2	9019.9	9372.5	9396.7	8801.9	8403.5	7676.7	7127.6
65°	7367.2	7351.0	8005.1	9065.6	10564.9	11590.5	11437.0	9994.3	8602.7	7447.9	6710.4
67.5°	6266.3	6223.2	7014.6	8696.9	11173.2	13412.7	13237.8	10330.7	7929.7	6589.3	5754.9
70°	4037.6	4026.8	4885.4	6629.7	9975.4	12314.5	12379.1	9383.3	6454.7	4826.2	3999.9
72.5°	1467.0	1555.8	2053.8	3563.8	6775.0	9421.0	9461.3	6947.3	3711.9	2231.4	1644.6
75°	541.0	557.2	648.7	1157.4	3087.4	5784.5	5935.2	3370.0	1318.9	726.8	592.2
77.5°	312.2	314.9	347.2	430.7	915.2	2258.3	2349.9	1022.8	511.4	387.6	358.0
80°	212.6	210.0	244.9	279.9	366.1	640.6	681.0	428.0	323.0	269.2	226.1
82.5°	123.8	131.9	180.3	199.2	223.4	282.6	288.0	266.5	242.3	199.2	148.0
85°	75.4	61.9	99.6	110.4	129.2	126.5	126.5	145.4	156.1	140.0	83.4
87.5°	18.8	18.8	24.2	26.9	35.0	26.9	29.6	56.5	75.4	70.0	43.1
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°	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0
2.5°	2581.3	2573.3	2578.6	2608.3	2589.4	2532.9	2546.3	2576.0	2551.7	2538.3	2535.6
5°	2570.6	2586.7	2567.9	2573.3	2592.1	2546.3	2554.4	2592.1	2576.0	2581.3	2551.7
7.5°	2573.3	2581.3	2565.2	2541.0	2541.0	2578.6	2557.1	2562.5	2538.3	2578.6	2524.8
10°	2557.1	2535.6	2516.7	2530.2	2524.8	2514.0	2506.0	2522.1	2497.9	2532.9	2495.2
12.5°	2508.7	2514.0	2508.7	2503.3	2514.0	2541.0	2497.9	2503.3	2465.6	2471.0	2489.8
15°	2489.8	2506.0	2500.6	2530.2	2543.7	2503.3	2535.6	2503.3	2473.7	2457.5	2487.1
17.5°	2497.9	2522.1	2514.0	2535.6	2511.4	2541.0	2546.3	2532.9	2497.9	2484.4	2497.9
20°	2506.0	2497.9	2508.7	2546.3	2581.3	2551.7	2551.7	2543.7	2511.4	2492.5	2492.5
22.5°	2524.8	2511.4	2527.5	2557.1	2567.9	2613.6	2573.3	2554.4	2500.6	2452.1	2497.9
25°	2562.5	2570.6	2581.3	2570.6	2629.8	2624.4	2619.0	2605.6	2522.1	2524.8	2516.7
27.5°	2635.2	2589.4	2602.9	2667.5	2675.6	2697.1	2670.2	2694.4	2605.6	2608.3	2554.4
30°	2724.0	2675.6	2718.6	2775.1	2772.5	2812.8	2799.4	2804.8	2742.8	2707.9	2635.2
32.5°	2820.9	2815.5	2842.4	2877.4	2890.9	2912.4	2909.7	2909.7	2872.0	2780.5	2794.0
35°	2928.6	2966.3	2998.6	3036.2	3041.6	3068.5	3030.9	3036.2	2998.6	2931.3	2952.8
37.5°	3141.2	3138.5	3173.5	3219.3	3224.7	3203.1	3232.7	3219.3	3168.1	3122.4	3087.4
40°	3388.9	3335.0	3367.3	3475.0	3483.1	3445.4	3442.7	3440.0	3402.3	3302.7	3281.2
42.5°	3604.2	3674.2	3668.8	3703.8	3679.6	3660.7	3728.0	3690.3	3660.7	3555.7	3536.9
45°	3881.4	3903.0	3972.9	4086.0	3970.3	3970.3	4016.0	3986.4	3970.3	3892.2	3819.5
47.5°	4226.0	4244.8	4384.8	4392.9	4317.5	4266.3	4409.0	4414.4	4347.1	4287.9	4199.1
50°	4629.7	4637.8	4764.3	4893.5	4810.1	4713.2	4858.5	4915.0	4764.3	4683.6	4573.2
52.5°	5073.9	5049.6	5154.6	5396.9	5316.1	5286.5	5442.6	5456.1	5251.5	5125.0	5154.6
55°	5585.3	5553.0	5838.3	6002.5	5951.3	5897.5	5967.5	5999.8	5835.6	5628.3	5701.0
57.5°	6247.4	6263.6	6406.2	6567.7	6651.2	6664.7	6697.0	6664.7	6497.8	6287.8	6220.5
60°	6909.6	6958.0	7235.3	7539.5	7566.4	7803.2	7760.2	7598.7	7361.8	7063.0	7076.5
62.5°	7154.5	7114.2	7561.0	8303.9	8936.4	9369.8	9178.7	8605.4	8056.3	7512.5	7552.9
65°	6662.0	6761.6	7369.9	8532.7	9905.5	11620.1	10602.6	9017.2	7908.2	7205.7	7127.6
67.5°	5741.4	5816.8	6589.3	7816.7	10252.7	13003.6	11140.9	8435.8	6974.2	6064.4	6112.9
70°	3999.9	4037.6	4793.9	6403.6	9297.1	12271.5	10050.8	6478.9	4815.5	3838.4	3892.2
72.5°	1609.6	1701.2	2199.1	3857.2	6863.8	9324.1	6766.9	3399.6	1997.2	1485.8	1348.5
75°	594.9	597.6	702.5	1327.0	3259.6	5859.8	3052.4	1092.8	637.9	522.2	498.0
77.5°	344.5	341.8	366.1	479.1	944.8	2287.9	866.7	428.0	347.2	312.2	298.8
80°	215.3	212.6	250.3	317.6	414.5	627.2	366.1	266.5	234.2	201.9	201.9
82.5°	137.3	140.0	196.5	234.2	253.0	277.2	212.6	188.4	175.0	115.7	113.1
85°	88.8	80.8	137.3	156.1	140.0	123.8	118.4	99.6	91.5	56.5	61.9
87.5°	40.4	43.1	70.0	78.1	51.1	29.6	29.6	21.5	21.5	13.5	13.5
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)