

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: P478451

Luminaire Tested: **IFLD-M-SA4C-727-U-T4W**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478451  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-T4W  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

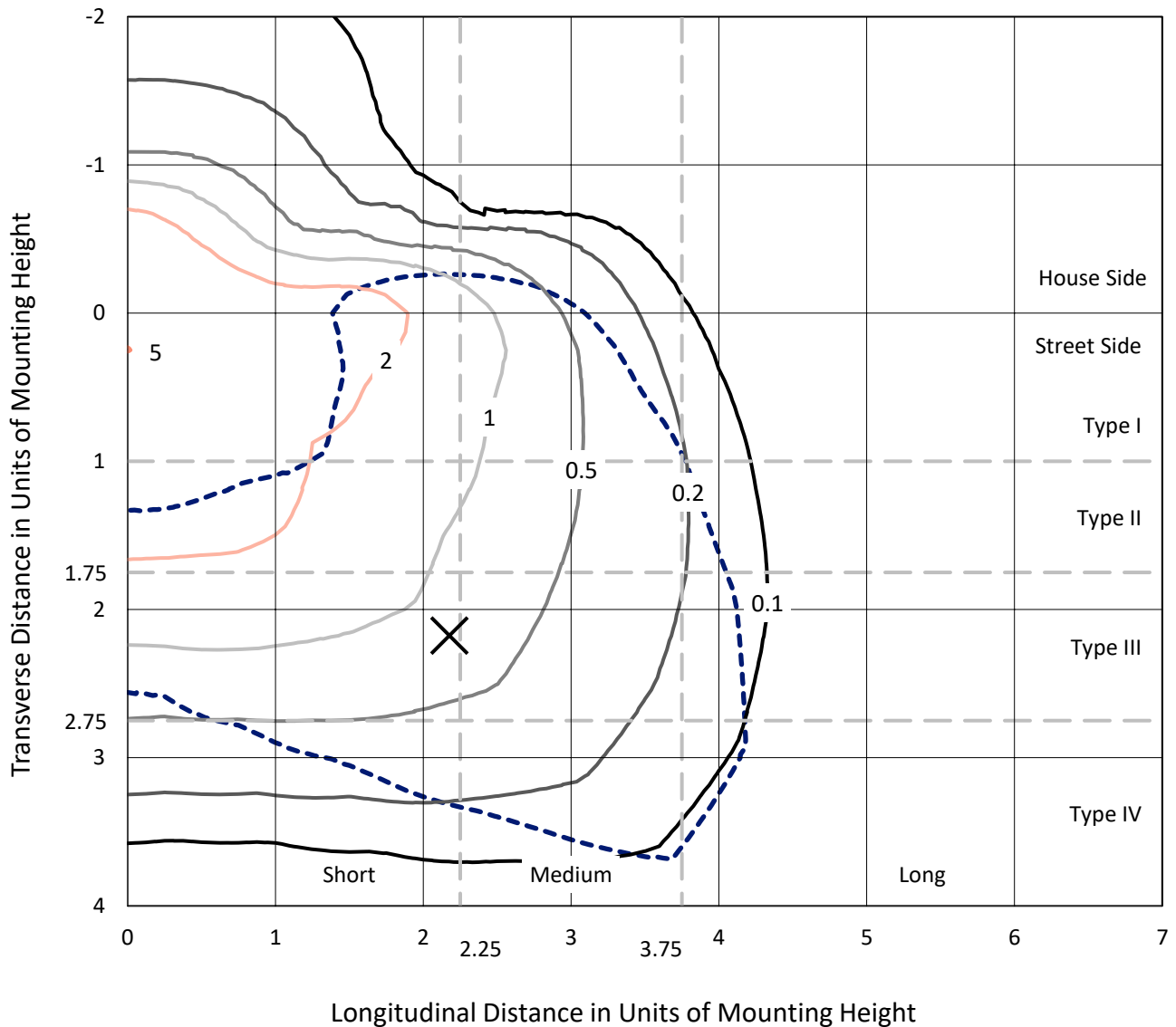
Lumens per Lamp: N/A  
Luminaire Lumens: 24033.7 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

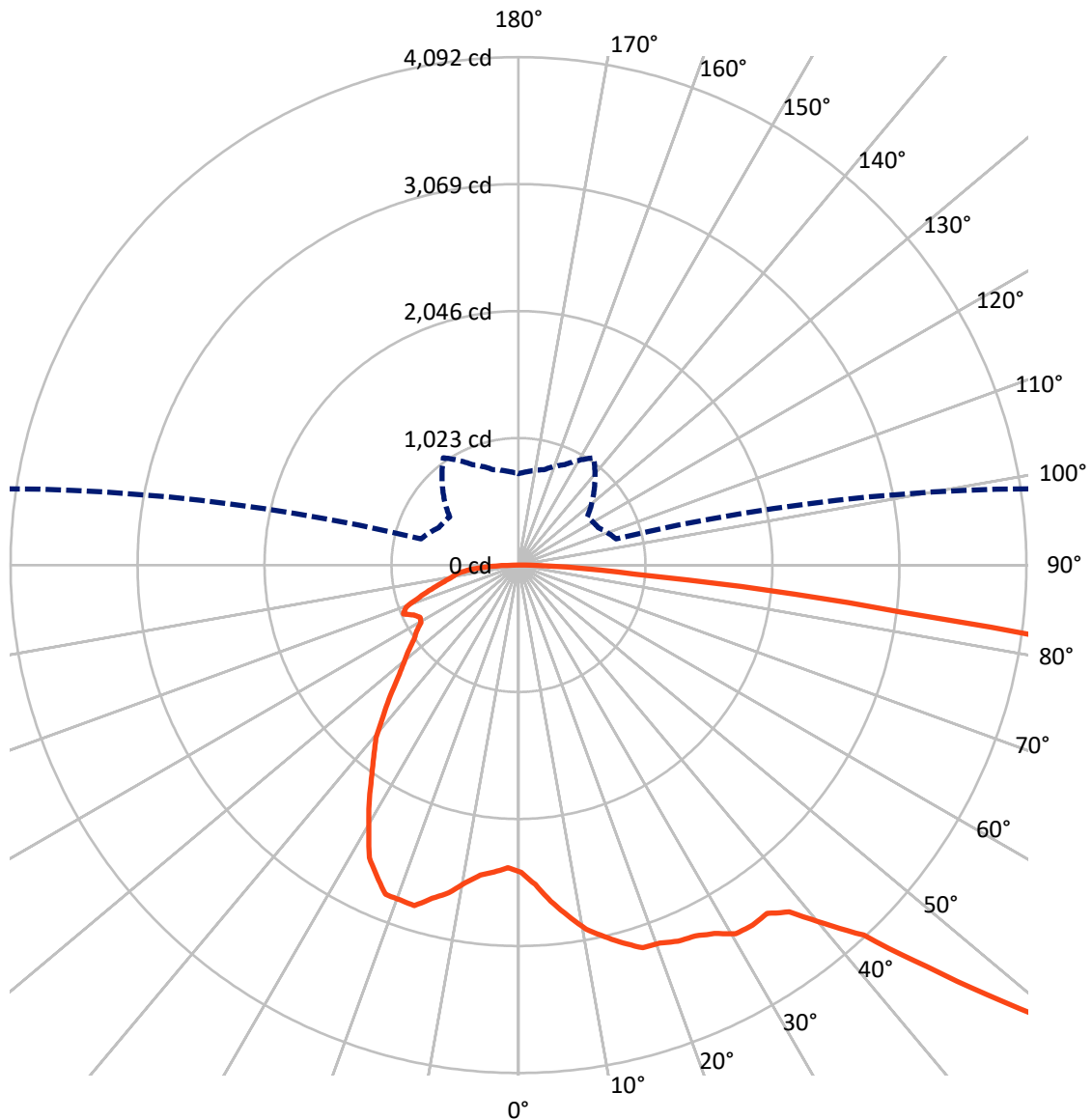
× Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	5350.0	0.0	5350.0
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	18683.7	0.0	18683.7
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	24033.7	0.0	24033.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.3	1.1
10°-20°	842.6	3.5
20°-30°	1423.0	5.9
30°-40°	1969.1	8.2
40°-50°	2816.7	11.7
50°-60°	4543.0	18.9
60°-70°	6700.3	27.9
70°-80°	4865.5	20.2
80°-90°	620.2	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°	24033.7	100.0
0°-180°	24033.7	100.0

**Coefficient of Utilization**



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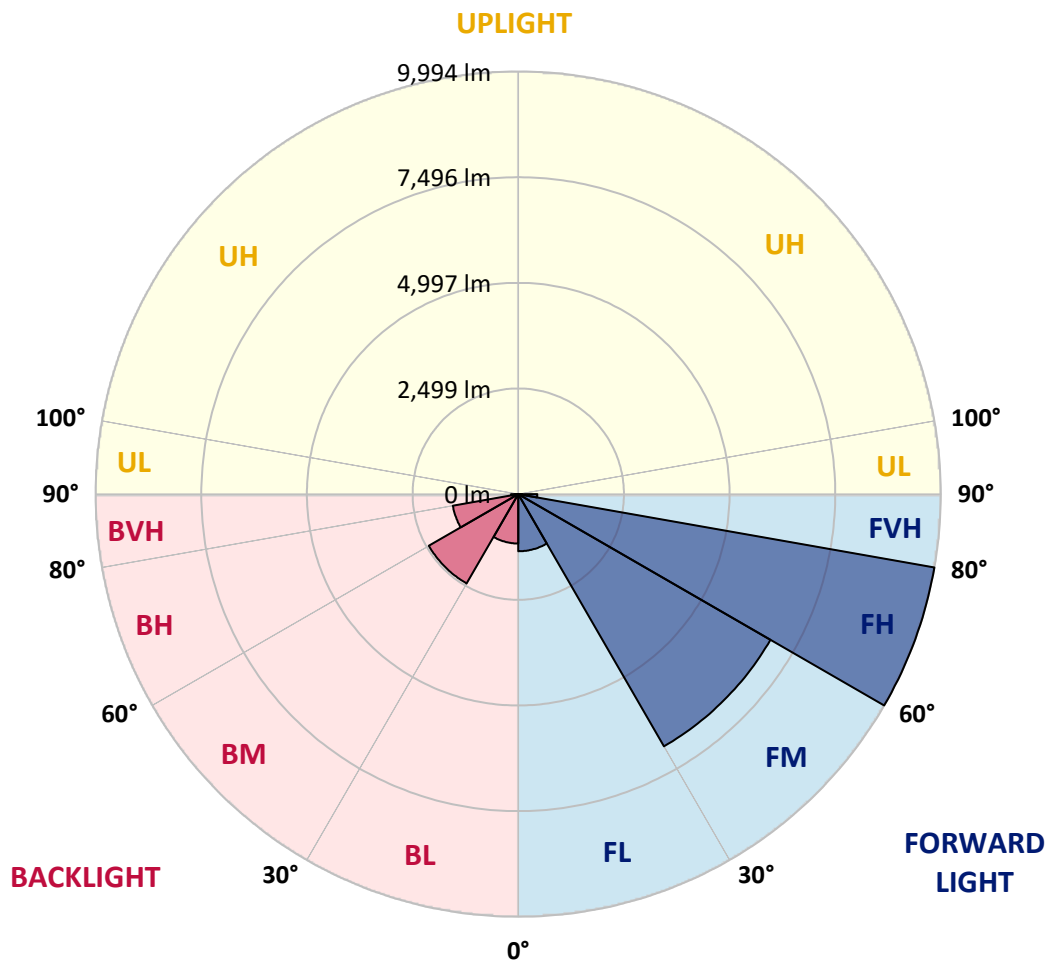
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1350.7	5.6			
FM	(30°-60°)	6887.2	28.7			
FH	(60°-80°)	9994.3	41.6			G4/12000
FVH	(80°-90°)	451.4	1.9			G3/500
BL	(0°-30°)	1168.1	4.9	B3/2500		
BM	(30°-60°)	2441.6	10.2	B2/2500		
BH	(60°-80°)	1571.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	168.8	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°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2607.2	2622.8	2607.2	2604.6	2578.7	2560.6	2576.1	2552.8	2526.9	2516.5	2493.2
5°	2845.6	2848.2	2819.7	2822.3	2767.9	2710.9	2721.2	2651.3	2576.1	2547.6	2501.0
7.5°	3089.3	3060.8	3019.3	3006.3	2920.8	2858.6	2850.8	2788.6	2672.0	2607.2	2542.4
10°	3247.4	3257.7	3190.3	3133.3	3060.8	2985.6	2983.0	2866.4	2799.0	2703.1	2620.2
12.5°	3387.3	3389.9	3332.9	3242.2	3151.5	3058.2	3071.1	3019.3	2905.3	2814.5	2731.6
15°	3496.2	3480.6	3418.4	3335.5	3239.6	3167.0	3159.2	3115.2	3019.3	2944.1	2806.8
17.5°	3527.3	3519.5	3457.3	3369.2	3275.9	3221.4	3242.2	3169.6	3130.7	3063.3	2931.2
20°	3467.6	3449.5	3439.1	3340.7	3273.3	3268.1	3249.9	3265.5	3200.7	3138.5	3042.6
22.5°	3358.8	3351.0	3345.8	3268.1	3237.0	3260.3	3291.4	3314.7	3304.4	3244.8	3135.9
25°	3247.4	3283.6	3249.9	3213.7	3257.7	3317.3	3309.6	3384.7	3384.7	3366.6	3275.9
27.5°	3325.1	3301.8	3275.9	3257.7	3273.3	3366.6	3361.4	3452.1	3485.8	3452.1	3348.4
30°	3519.5	3496.2	3421.0	3340.7	3319.9	3421.0	3446.9	3527.3	3542.8	3459.9	3371.8
32.5°	3884.9	3871.9	3752.7	3516.9	3389.9	3446.9	3459.9	3550.6	3537.6	3485.8	3449.5
35°	4426.6	4382.5	4216.6	3817.5	3537.6	3480.6	3446.9	3519.5	3568.7	3542.8	3509.1
37.5°	5020.1	4970.8	4766.1	4260.7	3804.6	3571.3	3545.4	3605.0	3662.0	3649.1	3579.1
40°	5587.6	5587.6	5403.6	4815.3	4201.1	3791.6	3796.8	3729.4	3781.2	3757.9	3770.9
42.5°	6147.4	6126.7	6051.5	5465.8	4626.1	4159.6	4076.7	3908.2	4001.5	3993.8	4011.9
45°	6715.0	6699.5	6678.7	6072.3	5235.2	4657.2	4613.2	4309.9	4395.5	4359.2	4436.9
47.5°	7168.5	7186.7	7186.7	6748.7	5885.7	5320.7	5255.9	4776.4	4939.7	4957.9	4976.0
50°	7554.7	7562.5	7554.7	7394.0	6611.3	6080.0	5947.9	5460.6	5623.9	5766.5	5932.3
52.5°	8088.6	8099.0	8062.7	8000.5	7596.2	6878.3	6730.6	6188.9	6523.2	6673.5	6971.6
55°	8746.9	8669.1	8601.7	8648.4	8542.1	7756.9	7603.9	6940.5	7443.3	7642.8	8238.9
57.5°	8868.7	8936.1	9107.1	9477.7	9630.6	8612.1	8524.0	7863.1	8482.5	8656.2	9651.4
60°	9298.9	9187.4	9607.3	10410.7	10581.8	9726.5	9635.8	8873.9	9516.6	9698.0	10955.0
62.5°	9581.4	9576.2	10198.2	11151.9	11540.7	10882.4	10698.4	10187.8	10633.6	10809.8	12375.2
65°	9498.4	9573.6	10677.7	11587.3	12341.5	12196.4	12090.1	11317.8	11906.1	11890.6	13300.4
67.5°	8741.7	8954.2	10374.4	11900.9	13533.7	13798.0	13764.3	12906.5	12940.2	12611.0	13712.5
70°	7692.1	7619.5	9091.6	11574.4	14129.8	15697.7	15689.9	14088.3	13870.6	12769.1	12530.7
72°	5909.0	5828.7	7039.0	9939.0	13816.2	16457.1	16690.3	14907.3	13860.2	12113.4	10351.1
72.5°	5364.7	5294.8	6499.9	9355.9	13468.9	16654.0	16545.2	14938.4	13751.4	11805.0	9669.5
75°	2469.9	2389.5	3247.4	5727.6	10506.6	14756.9	15127.5	13979.4	12009.8	9397.4	5792.4
77.5°	736.0	712.7	1044.4	2311.8	6106.0	10872.0	11014.6	10548.1	8384.0	5147.0	2148.5
80°	409.5	412.1	539.1	865.6	2685.0	6284.8	6797.9	6515.4	4113.0	1700.1	715.3
82.5°	228.1	241.0	336.9	513.1	1233.6	2884.5	3104.8	2993.4	1487.6	798.2	391.3
85°	119.2	124.4	176.2	274.7	699.7	912.3	938.2	1005.6	772.3	544.2	209.9
87.5°	46.6	46.6	64.8	114.0	259.2	282.5	254.0	308.4	443.2	352.5	103.7
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°	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0	2475.0
2.5°	2513.9	2493.2	2490.6	2456.9	2467.3	2438.8	2441.3	2436.2	2438.8	2433.6	2420.6
5°	2501.0	2485.4	2441.3	2469.9	2443.9	2480.2	2508.7	2498.4	2506.1	2503.5	2506.1
7.5°	2519.1	2498.4	2493.2	2477.6	2501.0	2516.5	2539.8	2604.6	2599.4	2607.2	2622.8
10°	2573.5	2550.2	2534.6	2558.0	2545.0	2594.3	2620.2	2653.9	2713.5	2716.1	2685.0
12.5°	2679.8	2664.2	2633.1	2638.3	2682.4	2697.9	2713.5	2734.2	2773.1	2765.3	2793.8
15°	2801.6	2767.9	2749.8	2744.6	2754.9	2773.1	2770.5	2791.2	2812.0	2830.1	2822.3
17.5°	2889.7	2845.6	2850.8	2876.7	2874.2	2869.0	2835.3	2824.9	2835.3	2845.6	2840.5
20°	2980.4	2985.6	2946.7	2923.4	2913.0	2861.2	2835.3	2804.2	2773.1	2788.6	2812.0
22.5°	3094.4	3071.1	3014.1	2944.1	2892.3	2861.2	2780.9	2726.4	2726.4	2742.0	2734.2
25°	3224.0	3174.8	3076.3	2949.3	2884.5	2752.3	2695.3	2687.6	2666.8	2690.1	2700.5
27.5°	3325.1	3281.0	3146.3	2931.2	2752.3	2646.1	2612.4	2602.0	2635.7	2638.3	2679.8
30°	3366.6	3353.6	3156.6	2884.5	2617.6	2446.5	2425.8	2472.4	2508.7	2563.2	2565.7
32.5°	3421.0	3426.2	3172.2	2775.7	2441.3	2270.3	2239.2	2296.2	2399.9	2443.9	2477.6
35°	3511.7	3537.6	3159.2	2640.9	2254.7	2091.5	2086.3	2101.8	2202.9	2280.7	2324.7
37.5°	3669.8	3664.6	3156.6	2480.2	2107.0	1936.0	1894.5	1899.7	1967.1	2031.9	2024.1
40°	3882.3	3861.6	3148.9	2270.3	1915.2	1803.8	1733.8	1707.9	1702.7	1684.6	1689.8
42.5°	4172.6	4131.1	3146.3	2057.8	1741.6	1622.4	1573.1	1505.8	1456.5	1363.2	1368.4
45°	4576.9	4504.3	3078.9	1858.2	1570.5	1472.1	1396.9	1347.7	1241.4	1124.8	1124.8
47.5°	5201.5	4965.6	3081.5	1637.9	1404.7	1324.3	1272.5	1187.0	1072.9	979.6	969.3
50°	6121.5	5582.4	2993.4	1464.3	1269.9	1215.5	1161.1	1062.6	953.7	888.9	896.7
52.5°	7308.5	6502.5	2990.8	1308.8	1163.7	1124.8	1065.2	977.1	896.7	855.2	839.7
55°	8723.5	7720.6	3084.1	1181.8	1054.8	1034.1	1008.2	935.6	857.8	821.6	819.0
57.5°	10172.3	8910.1	3234.4	1091.1	961.5	977.1	958.9	901.9	839.7	798.2	793.0
60°	11460.3	9853.5	2931.2	982.2	878.6	912.3	938.2	888.9	855.2	852.7	834.5
62.5°	12432.2	10257.8	2228.8	899.3	834.5	896.7	966.7	997.8	982.2	1003.0	1005.6
65°	12787.3	10014.2	1534.3	855.2	800.8	933.0	1088.5	1078.1	987.4	948.5	969.3
67.5°	12289.7	9026.8	1137.7	803.4	777.5	1008.2	1158.5	1028.9	891.5	886.3	870.8
70°	10568.8	7650.6	927.8	749.0	738.6	966.7	1127.4	953.7	839.7	806.0	790.5
72°	8420.3	5958.2	813.8	710.1	676.4	863.0	1054.8	894.1	795.6	754.2	736.0
72.5°	7686.9	5522.8	798.2	692.0	663.5	839.7	1018.5	876.0	785.3	749.0	720.5
75°	4216.6	2827.5	702.3	635.0	559.8	725.7	943.4	821.6	741.2	689.4	684.2
77.5°	1568.0	1096.3	606.4	562.4	484.6	627.2	857.8	780.1	673.8	609.0	596.1
80°	601.3	577.9	495.0	474.3	406.9	549.4	790.5	699.7	572.8	508.0	487.2
82.5°	365.4	336.9	375.8	370.6	311.0	500.2	743.8	655.7	508.0	412.1	399.1
85°	199.6	199.6	261.8	251.4	217.7	399.1	562.4	435.4	321.4	264.3	269.5
87.5°	88.1	103.7	139.9	132.2	119.2	225.5	274.7	230.7	160.7	108.8	116.6
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)