

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: P481143

Luminaire Tested: **IFLD-M-SA4D-722-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481143
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-722-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

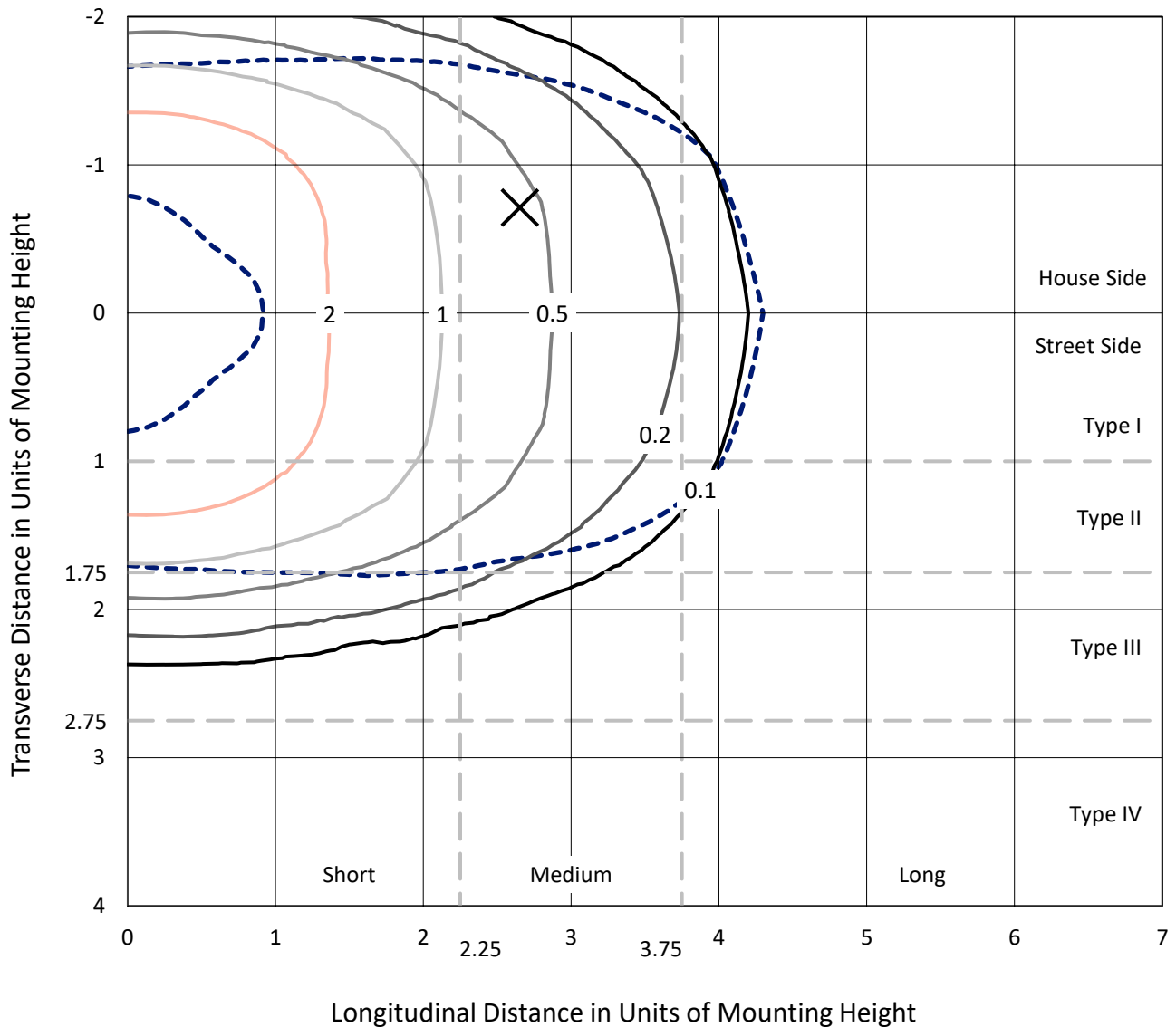
Lumens per Lamp: N/A
Luminaire Lumens: 23735.7 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 249.7
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

REPORT NUMBER: P481143
 CATALOG NUMBER: IFLD-M-SA4D-722-U-RW

Iso-Footcandle Lines of Horizontal Illumination

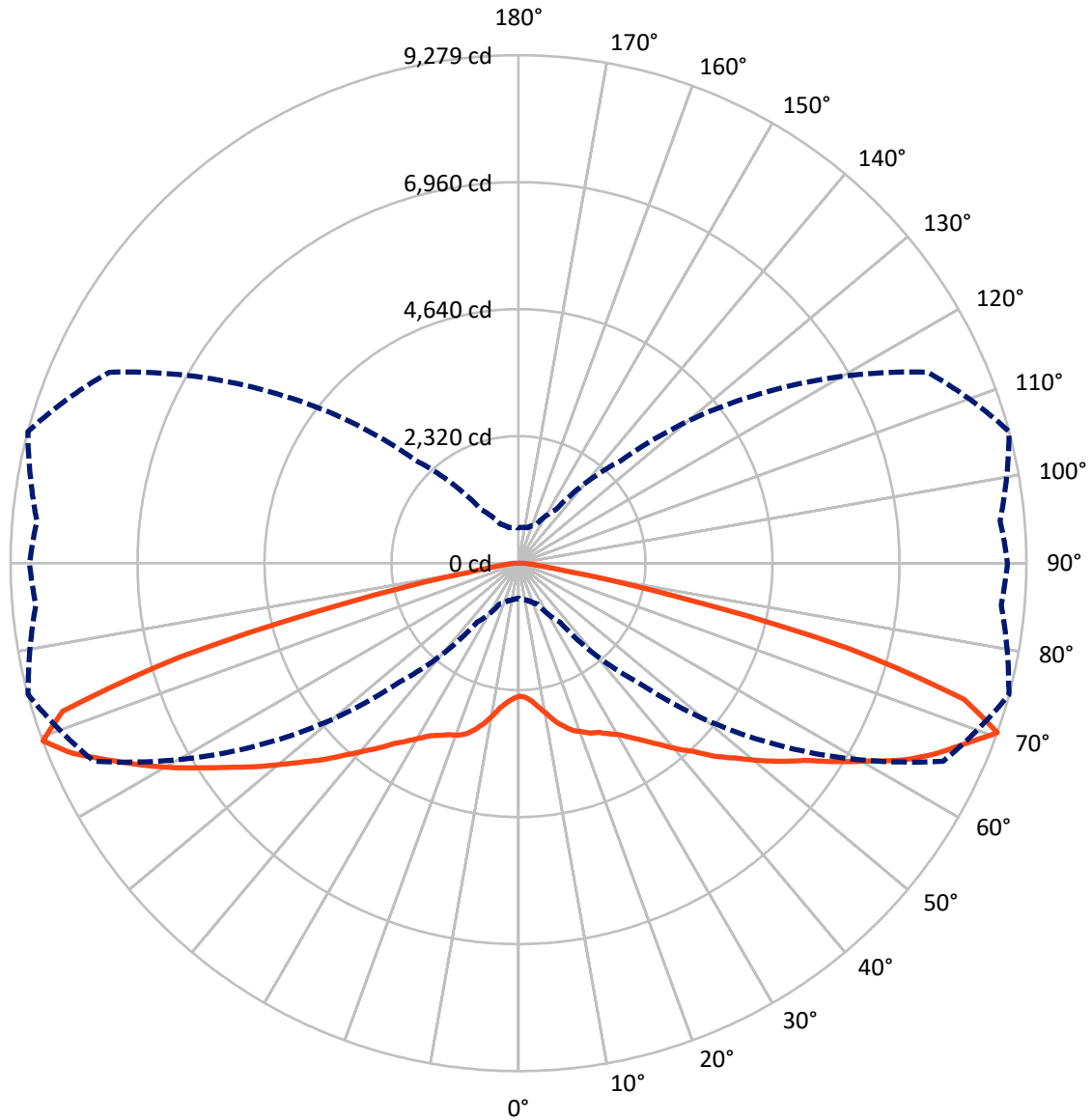
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

REPORT NUMBER: P481143
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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
House Side	Lumens	11783.4	0.0	11783.4
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11952.3	0.0	11952.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	23735.7	0.0	23735.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.0
10°-20°	823.7	3.5
20°-30°	1595.0	6.7
30°-40°	2697.8	11.4
40°-50°	4303.7	18.1
50°-60°	5890.9	24.8
60°-70°	5552.6	23.4
70°-80°	2446.1	10.3
80°-90°	184.0	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°	23735.7	100.0
0°-180°	23735.7	100.0

Coefficient of Utilization



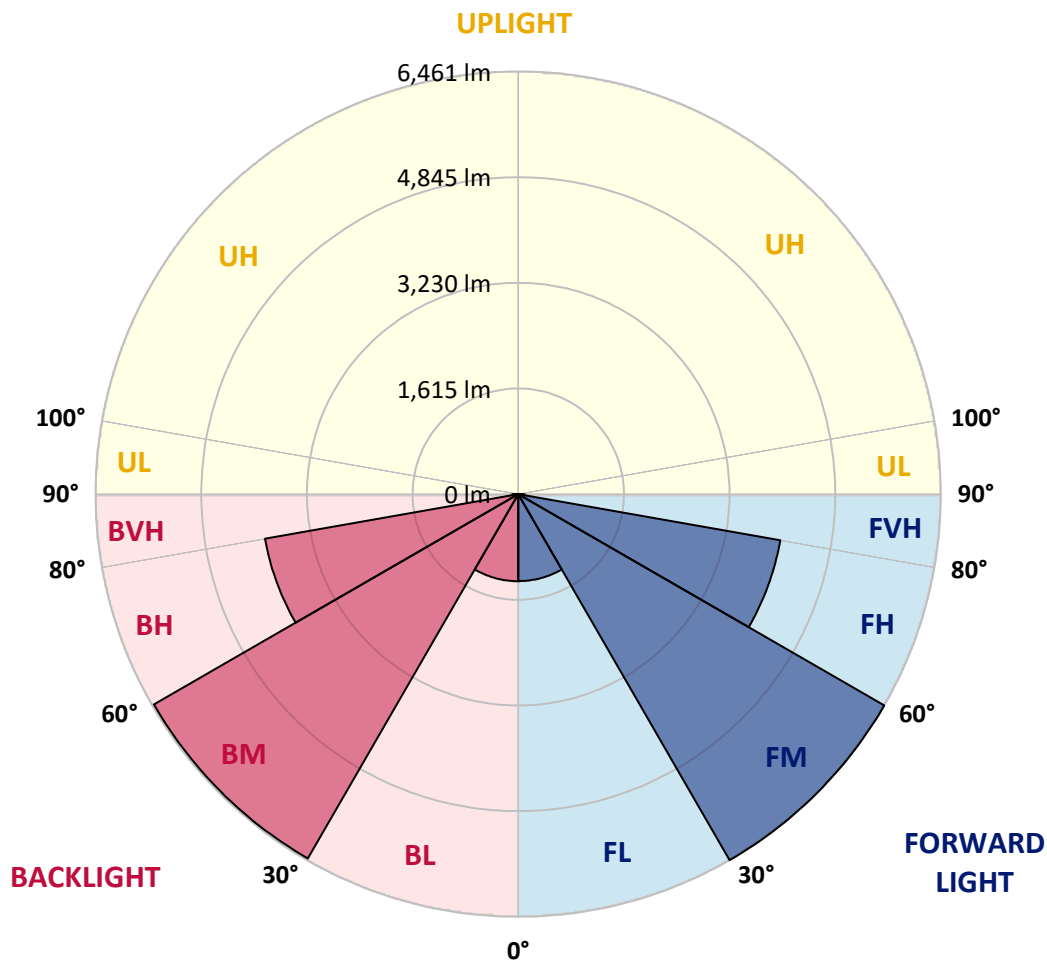
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.6	5.6			
FM (30°-60°)	6460.6	27.2			
FH (60°-80°)	4068.0	17.1			G2/5000
FVH (80°-90°)	94.0	0.4			G1/100
BL (0°-30°)	1331.0	5.6	B3/2500		
BM (30°-60°)	6431.8	27.1	B4/8500		
BH (60°-80°)	3930.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	90.0	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°	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5
2.5°	2415.2	2415.2	2412.6	2425.4	2438.2	2443.3	2453.5	2456.1	2471.4	2458.7	2484.2
5°	2407.5	2404.9	2425.4	2456.1	2456.1	2489.4	2509.8	2538.0	2545.6	2561.0	2566.1
7.5°	2461.2	2456.1	2445.9	2479.1	2507.3	2558.4	2586.6	2635.2	2653.1	2673.6	2696.6
10°	2494.5	2494.5	2484.2	2543.1	2568.7	2637.7	2699.1	2747.8	2816.8	2839.9	2842.4
12.5°	2499.6	2507.3	2538.0	2614.7	2686.4	2775.9	2822.0	2914.1	2983.1	3026.6	3042.0
15°	2576.3	2561.0	2594.3	2699.1	2804.0	2883.4	2965.2	3031.7	3131.5	3187.8	3223.6
17.5°	2645.4	2630.1	2691.5	2816.8	2924.3	3047.1	3118.7	3190.4	3262.0	3313.2	3315.7
20°	2755.4	2768.2	2822.0	2957.5	3098.3	3205.7	3287.6	3300.4	3336.2	3410.4	3397.6
22.5°	2891.0	2880.8	2993.4	3141.8	3295.3	3384.8	3430.9	3397.6	3379.7	3459.0	3476.9
25°	3026.6	3057.3	3159.7	3297.8	3482.0	3602.3	3615.1	3523.0	3456.4	3484.6	3476.9
27.5°	3233.9	3239.0	3346.4	3510.2	3696.9	3801.8	3794.2	3663.7	3535.8	3538.3	3543.4
30°	3499.9	3474.4	3592.0	3740.4	3924.6	4019.3	4032.1	3845.3	3673.9	3622.7	3635.5
32.5°	3755.8	3786.5	3888.8	4057.7	4193.3	4247.0	4218.9	4052.6	3830.0	3760.9	3768.6
35°	4083.3	4078.1	4218.9	4362.1	4464.5	4474.7	4451.7	4208.6	3998.8	3909.3	3873.5
37.5°	4433.8	4479.8	4571.9	4689.6	4797.1	4802.2	4676.8	4482.4	4224.0	4075.6	4119.1
40°	4825.2	4876.4	4942.9	5114.3	5193.6	5111.7	4983.8	4720.3	4451.7	4321.2	4341.7
42.5°	5170.6	5193.6	5329.2	5531.3	5569.7	5533.9	5344.6	5024.8	4712.6	4569.4	4579.6
45°	5487.8	5518.5	5695.1	5876.7	5966.3	5904.9	5684.8	5380.4	5017.1	4894.3	4845.7
47.5°	5779.5	5840.9	6012.3	6199.1	6337.2	6342.4	6071.2	5702.7	5319.0	5157.8	5155.2
50°	5976.5	6066.0	6234.9	6447.2	6649.4	6728.7	6457.5	6060.9	5649.0	5477.6	5459.7
52.5°	6084.0	6176.1	6344.9	6674.9	6900.1	7022.9	6895.0	6396.1	6035.3	5856.3	5828.1
55°	5953.5	6014.9	6291.2	6754.3	7102.2	7304.3	7219.9	6859.2	6419.1	6273.3	6298.9
57.5°	5398.3	5526.2	5866.5	6444.7	7097.1	7593.4	7585.8	7296.6	6861.7	6723.6	6728.7
60°	4444.0	4551.5	4971.0	5779.5	6810.5	7711.1	7982.3	7721.3	7358.1	7196.9	7191.8
62.5°	3136.6	3272.2	3758.3	4641.0	5966.3	7547.4	8437.7	8256.1	7844.2	7726.5	7770.0
65°	1755.1	1837.0	2287.2	3085.5	4546.3	6646.8	8519.6	8811.2	8337.9	8158.8	8166.5
67.5°	938.9	969.6	1179.4	1619.5	2781.0	5124.5	7693.2	9131.0	8872.6	8563.1	8514.5
70°	644.7	655.0	708.7	828.9	1315.0	3065.0	5802.5	8560.5	9274.3	8852.2	8934.0
72.5°	544.9	539.8	552.6	565.4	688.2	1371.3	3405.3	6588.0	8755.0	8596.3	8565.6
75°	473.3	470.8	475.9	463.1	478.4	603.8	1506.9	4106.3	6408.9	7153.4	7268.5
77.5°	391.4	394.0	396.6	383.8	378.6	399.1	606.3	1803.7	3154.5	3482.0	3755.8
80°	296.8	301.9	322.4	309.6	289.1	291.7	358.2	603.8	905.7	821.3	846.8
82.5°	202.1	204.7	248.2	232.8	217.5	197.0	230.3	312.1	353.1	268.6	235.4
85°	143.3	140.7	161.2	148.4	138.2	99.8	138.2	176.5	212.3	133.0	120.2
87.5°	33.3	33.3	66.5	53.7	51.2	40.9	53.7	69.1	92.1	58.8	53.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P481143

CATALOG NUMBER: IFLD-M-SA4D-722-U-RW

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5	2430.5
2.5°	2476.6	2453.5	2453.5	2448.4	2428.0	2422.8	2404.9	2410.0	2397.3	2384.5
5°	2563.5	2532.8	2532.8	2489.4	2448.4	2443.3	2422.8	2422.8	2402.4	2407.5
7.5°	2683.8	2655.7	2609.6	2571.2	2514.9	2491.9	2453.5	2448.4	2443.3	2433.1
10°	2827.1	2791.2	2745.2	2665.9	2619.8	2576.3	2538.0	2484.2	2471.4	2474.0
12.5°	3021.5	2965.2	2865.4	2796.4	2737.5	2681.2	2625.0	2545.6	2527.7	2535.4
15°	3159.7	3088.0	2988.2	2962.7	2883.4	2814.3	2722.2	2632.6	2601.9	2594.3
17.5°	3272.2	3213.4	3154.5	3116.2	3052.2	2967.8	2839.9	2737.5	2668.4	2660.8
20°	3364.3	3287.6	3274.8	3297.8	3218.5	3162.2	3006.2	2880.8	2788.7	2750.3
22.5°	3420.6	3372.0	3407.8	3428.3	3423.2	3328.5	3167.3	3021.5	2906.4	2870.6
25°	3482.0	3425.7	3553.7	3622.7	3640.6	3484.6	3359.2	3167.3	3054.8	3031.7
27.5°	3512.7	3533.2	3681.6	3827.4	3814.6	3694.4	3525.5	3354.1	3264.6	3223.6
30°	3602.3	3635.5	3860.7	4024.4	4027.0	3909.3	3781.4	3586.9	3487.1	3469.2
32.5°	3763.5	3804.4	4044.9	4218.9	4249.6	4160.0	4032.1	3911.8	3809.5	3768.6
35°	3886.3	3991.2	4262.3	4421.0	4502.8	4449.1	4377.5	4252.1	4144.7	4108.8
37.5°	4062.8	4208.6	4469.6	4684.5	4776.6	4771.5	4717.7	4582.2	4492.6	4461.9
40°	4316.1	4461.9	4699.8	4983.8	5155.2	5147.6	5116.9	5012.0	4878.9	4863.6
42.5°	4584.7	4705.0	5014.5	5339.4	5585.1	5559.5	5477.6	5354.8	5262.7	5242.2
45°	4845.7	5032.4	5319.0	5736.0	5920.2	5984.2	5887.0	5677.2	5572.3	5559.5
47.5°	5173.1	5321.5	5679.7	6053.3	6327.0	6337.2	6170.9	5976.5	5784.6	5825.6
50°	5464.8	5661.8	6025.1	6434.5	6761.9	6644.2	6431.9	6188.8	6050.7	5997.0
52.5°	5776.9	6017.4	6439.6	6856.6	7038.2	6920.6	6575.2	6304.0	6094.2	6071.2
55°	6232.3	6357.7	6910.3	7230.1	7289.0	7040.8	6531.7	6147.9	5876.7	5810.2
57.5°	6695.4	6841.2	7324.8	7601.1	7539.7	6974.3	6250.2	5656.7	5301.1	5206.4
60°	7163.6	7342.7	7749.5	8002.8	7685.5	6516.3	5454.6	4689.6	4275.1	4190.7
62.5°	7685.5	7918.3	8281.6	8371.2	7253.2	5610.6	4328.9	3384.8	2965.2	2824.5
65°	8148.6	8386.5	8834.3	8294.4	6334.7	4185.6	2798.9	1934.2	1624.6	1512.0
67.5°	8529.8	8798.4	9018.5	7340.1	4638.4	2451.0	1458.3	1018.3	903.1	862.2
70°	8831.7	9279.4	8250.9	5395.7	2650.5	1194.8	788.0	670.3	655.0	644.7
72.5°	8568.2	8509.3	6160.7	3113.6	1161.5	657.5	570.5	552.6	550.1	552.6
75°	7007.5	6250.2	3684.1	1353.4	583.3	475.9	473.3	465.6	478.4	478.4
77.5°	3400.2	2972.9	1540.2	580.8	383.8	373.5	386.3	386.3	386.3	386.3
80°	788.0	872.4	550.1	353.1	278.9	278.9	307.0	309.6	296.8	291.7
82.5°	268.6	358.2	301.9	222.6	184.2	207.2	232.8	237.9	197.0	199.6
85°	133.0	209.8	163.7	127.9	94.7	127.9	150.9	158.6	135.6	130.5
87.5°	61.4	92.1	61.4	43.5	33.3	46.1	43.5	35.8	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)