

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: P481455

Luminaire Tested: **IFLD-M-SA4D-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481455  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

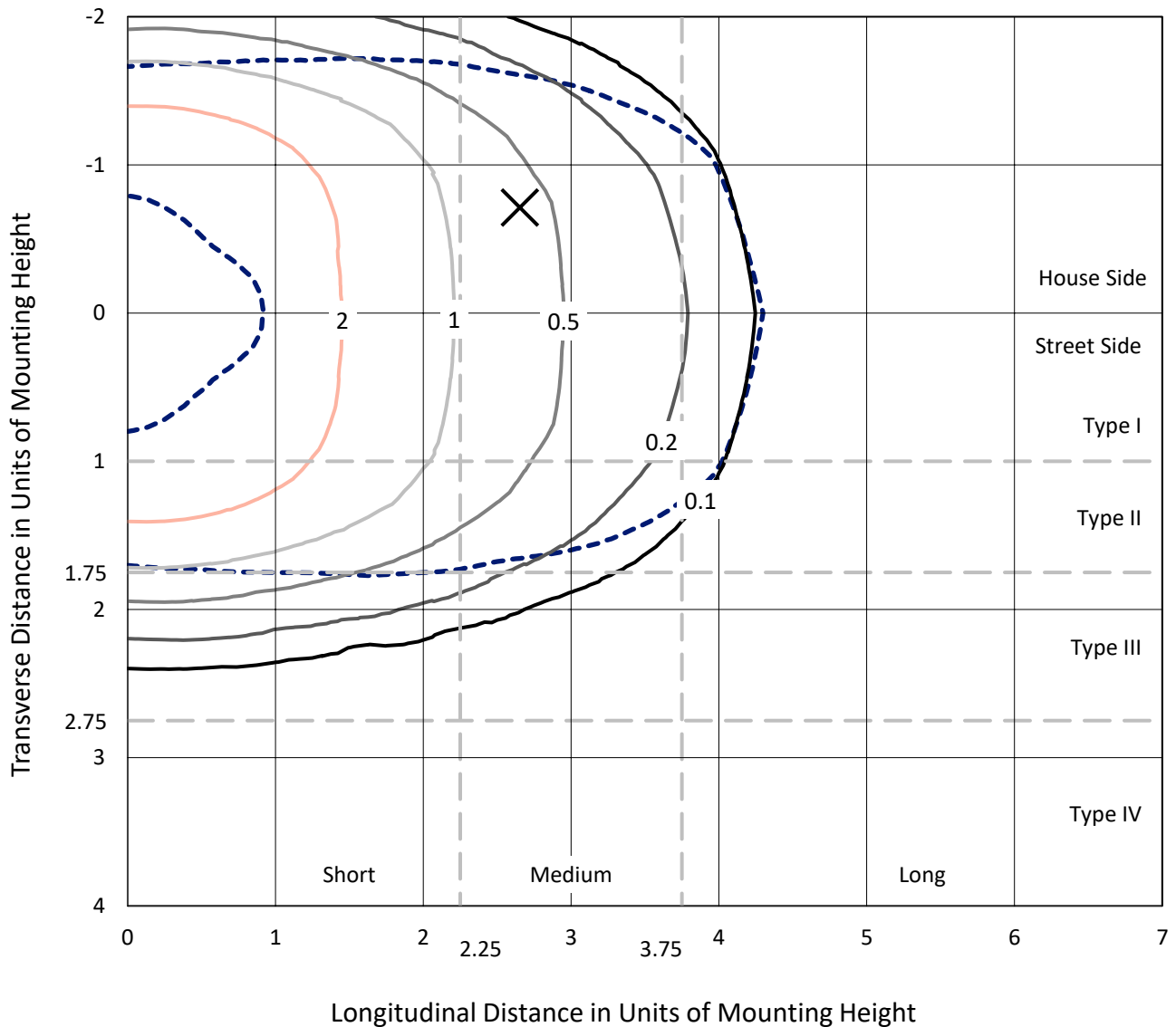
Lumens per Lamp: N/A  
Luminaire Lumens: 25604.6 lumens  
Efficiency: N/A  
Efficacy: 102.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

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: P481455  
 CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

### Iso-Footcandle Lines of Horizontal Illumination

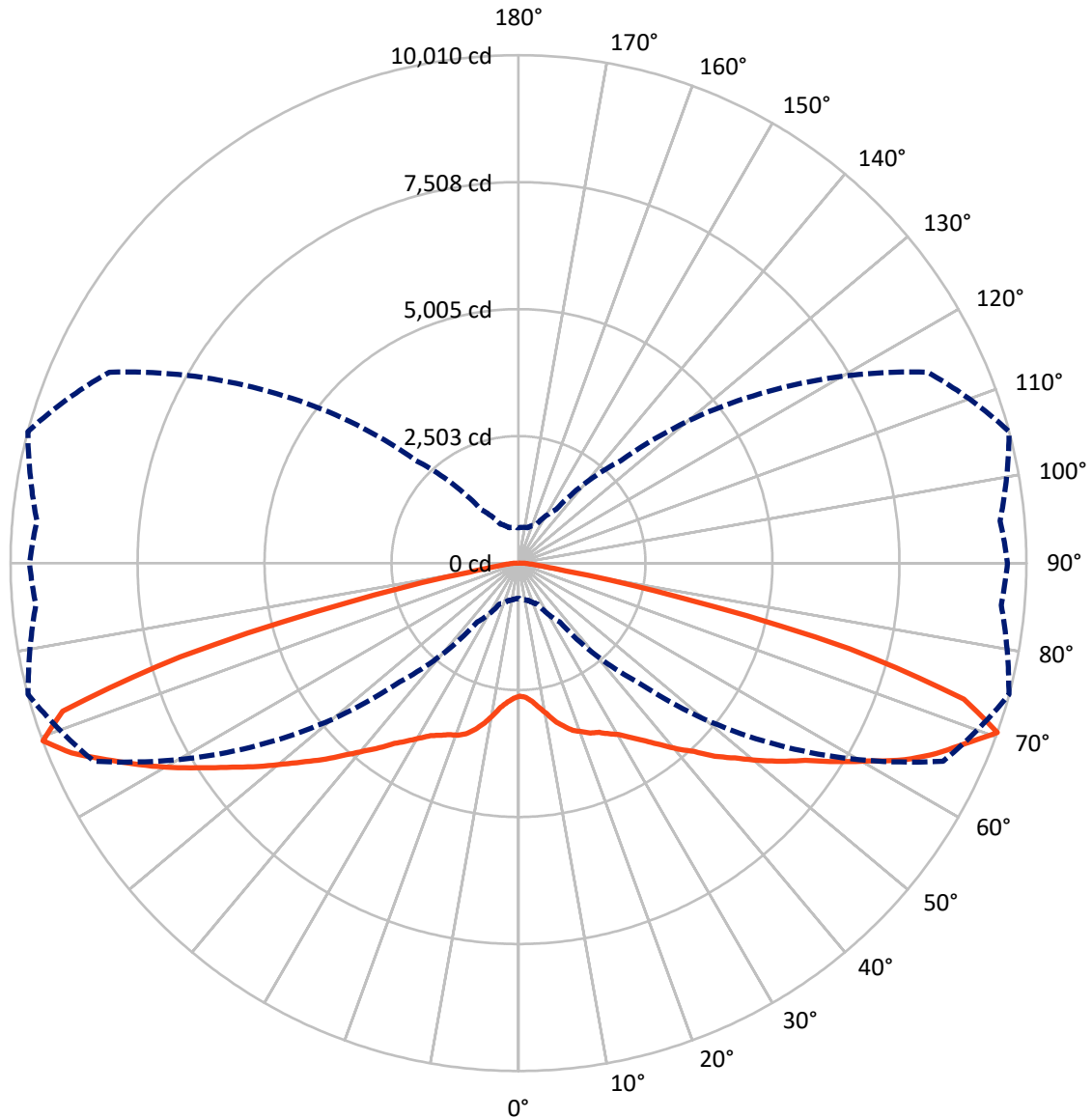
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P481455  
CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P481455  
 CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12711.2	0.0	12711.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	12893.4	0.0	12893.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	25604.6	0.0	25604.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	1.0
10°-20°	888.6	3.5
20°-30°	1720.6	6.7
30°-40°	2910.2	11.4
40°-50°	4642.6	18.1
50°-60°	6354.7	24.8
60°-70°	5989.8	23.4
70°-80°	2638.7	10.3
80°-90°	198.5	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°	25604.6	100.0
0°-180°	25604.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P481455

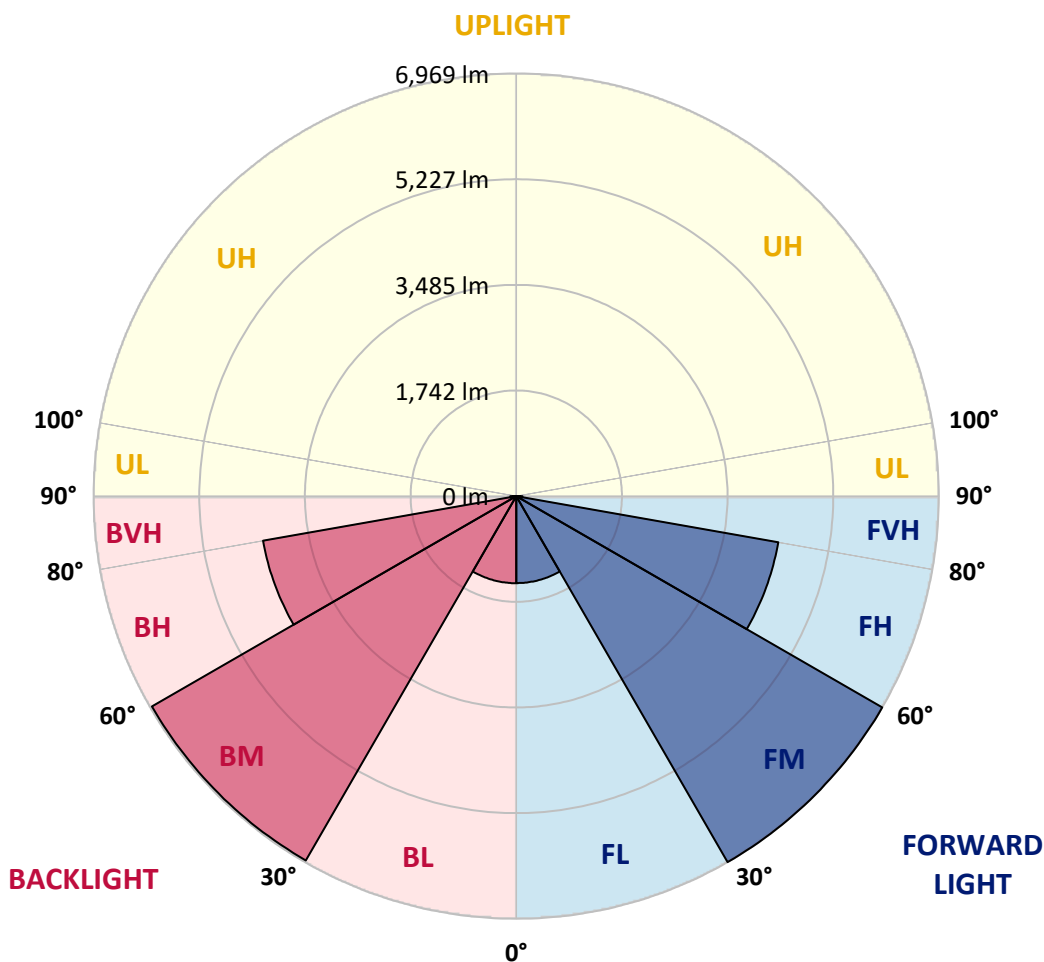
CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.3	5.6			
FM (30°-60°)	6969.4	27.2			
FH (60°-80°)	4388.4	17.1			G2/5000
FVH (80°-90°)	101.4	0.4			G2/225
BL (0°-30°)	1435.8	5.6	B3/2500		
BM (30°-60°)	6938.2	27.1	B4/8500		
BH (60°-80°)	4240.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	97.1	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





REPORT NUMBER: P481455

CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9
2.5°	2605.3	2605.3	2602.6	2616.4	2630.2	2635.7	2646.7	2649.5	2666.0	2652.2	2679.8
5°	2597.1	2594.3	2616.4	2649.5	2649.5	2685.4	2707.4	2737.8	2746.1	2762.6	2768.2
7.5°	2655.0	2649.5	2638.4	2674.3	2704.7	2759.9	2790.2	2842.7	2862.0	2884.1	2908.9
10°	2690.9	2690.9	2679.8	2743.3	2770.9	2845.4	2911.7	2964.1	3038.6	3063.5	3066.2
12.5°	2696.4	2704.7	2737.8	2820.6	2897.9	2994.5	3044.2	3143.5	3218.0	3264.9	3281.5
15°	2779.2	2762.6	2798.5	2911.7	3024.8	3110.4	3198.7	3270.5	3378.1	3438.8	3477.5
17.5°	2853.7	2837.2	2903.4	3038.6	3154.5	3287.0	3364.3	3441.6	3518.9	3574.0	3576.8
20°	2972.4	2986.2	3044.2	3190.4	3342.2	3458.1	3546.5	3560.2	3598.9	3678.9	3665.1
22.5°	3118.7	3107.6	3229.1	3389.1	3554.7	3651.3	3701.0	3665.1	3645.8	3731.4	3750.7
25°	3264.9	3298.1	3408.5	3557.5	3756.2	3885.9	3899.7	3800.4	3728.6	3759.0	3750.7
27.5°	3488.5	3494.0	3609.9	3786.6	3988.0	4101.2	4092.9	3952.2	3814.2	3816.9	3822.4
30°	3775.5	3747.9	3874.9	4034.9	4233.7	4335.8	4349.6	4148.1	3963.2	3908.0	3921.8
32.5°	4051.5	4084.6	4195.0	4377.2	4523.4	4581.4	4551.0	4371.7	4131.5	4057.0	4065.3
35°	4404.8	4399.3	4551.0	4705.6	4816.0	4827.0	4802.2	4540.0	4313.7	4217.1	4178.5
37.5°	4782.9	4832.6	4931.9	5058.9	5174.8	5180.3	5045.1	4835.3	4556.6	4396.5	4443.4
40°	5205.1	5260.3	5332.1	5517.0	5602.6	5514.2	5376.3	5092.0	4802.2	4661.4	4683.5
42.5°	5577.7	5602.6	5748.8	5966.9	6008.3	5969.6	5765.4	5420.4	5083.7	4929.2	4940.2
45°	5920.0	5953.1	6143.5	6339.5	6436.0	6369.8	6132.5	5804.0	5412.1	5279.7	5227.2
47.5°	6234.6	6300.8	6485.7	6687.2	6836.2	6841.8	6549.2	6151.8	5737.8	5563.9	5561.2
50°	6447.1	6543.7	6725.8	6954.9	7172.9	7258.5	6965.9	6538.2	6093.8	5908.9	5889.6
52.5°	6563.0	6662.4	6844.5	7200.5	7443.4	7575.9	7437.9	6899.7	6510.6	6317.4	6287.0
55°	6422.2	6488.5	6786.6	7286.1	7661.4	7879.5	7788.4	7399.2	6924.5	6767.2	6794.8
57.5°	5823.4	5961.3	6328.4	6952.1	7655.9	8191.3	8183.1	7871.2	7402.0	7253.0	7258.5
60°	4793.9	4909.8	5362.5	6234.6	7346.8	8318.3	8610.8	8329.3	7937.4	7763.6	7758.0
62.5°	3383.6	3529.9	4054.3	5006.4	6436.0	8141.7	9102.1	8906.1	8461.8	8334.8	8381.8
65°	1893.3	1981.6	2467.3	3328.4	4904.3	7170.2	9190.4	9505.0	8994.5	8801.3	8809.5
67.5°	1012.9	1046.0	1272.3	1747.0	3000.0	5528.0	8299.0	9850.0	9571.3	9237.3	9184.9
70°	695.5	706.5	764.5	894.2	1418.6	3306.3	6259.4	9234.6	10004.6	9549.2	9637.5
72.5°	587.9	582.3	596.1	609.9	742.4	1479.3	3673.4	7106.7	9444.3	9273.2	9240.1
75°	510.6	507.8	513.3	499.5	516.1	651.3	1625.6	4429.6	6913.5	7716.6	7840.8
77.5°	422.3	425.0	427.8	414.0	408.5	430.5	654.1	1945.7	3402.9	3756.2	4051.5
80°	320.1	325.7	347.7	333.9	311.9	314.6	386.4	651.3	977.0	885.9	913.5
82.5°	218.0	220.8	267.7	251.1	234.6	212.5	248.4	336.7	380.9	289.8	253.9
85°	154.6	151.8	173.9	160.1	149.0	107.6	149.0	190.4	229.1	143.5	129.7
87.5°	35.9	35.9	71.8	58.0	55.2	44.2	58.0	74.5	99.4	63.5	58.0
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: P481455  
 CATALOG NUMBER: IFLD-M-SA4D-830-U-RW

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9	2621.9
2.5°	2671.6	2646.7	2646.7	2641.2	2619.1	2613.6	2594.3	2599.8	2586.0	2572.2
5°	2765.4	2732.3	2732.3	2685.4	2641.2	2635.7	2613.6	2613.6	2591.5	2597.1
7.5°	2895.1	2864.8	2815.1	2773.7	2713.0	2688.1	2646.7	2641.2	2635.7	2624.6
10°	3049.7	3011.0	2961.4	2875.8	2826.1	2779.2	2737.8	2679.8	2666.0	2668.8
12.5°	3259.4	3198.7	3091.1	3016.6	2953.1	2892.4	2831.6	2746.1	2726.8	2735.0
15°	3408.5	3331.2	3223.5	3195.9	3110.4	3035.9	2936.5	2839.9	2806.8	2798.5
17.5°	3529.9	3466.4	3402.9	3361.5	3292.5	3201.5	3063.5	2953.1	2878.6	2870.3
20°	3629.2	3546.5	3532.7	3557.5	3471.9	3411.2	3242.9	3107.6	3008.3	2966.9
22.5°	3690.0	3637.5	3676.2	3698.2	3692.7	3590.6	3416.7	3259.4	3135.2	3096.6
25°	3756.2	3695.5	3833.5	3908.0	3927.3	3759.0	3623.7	3416.7	3295.3	3270.5
27.5°	3789.3	3811.4	3971.5	4128.8	4115.0	3985.3	3803.1	3618.2	3521.6	3477.5
30°	3885.9	3921.8	4164.7	4341.3	4344.1	4217.1	4079.1	3869.4	3761.7	3742.4
32.5°	4059.8	4103.9	4363.4	4551.0	4584.2	4487.6	4349.6	4219.9	4109.5	4065.3
35°	4192.3	4305.4	4598.0	4769.1	4857.4	4799.4	4722.2	4586.9	4471.0	4432.4
37.5°	4382.7	4540.0	4821.5	5053.3	5152.7	5147.2	5089.2	4943.0	4846.4	4813.2
40°	4655.9	4813.2	5069.9	5376.3	5561.2	5552.9	5519.8	5406.6	5263.1	5246.5
42.5°	4945.7	5075.4	5409.4	5759.9	6024.8	5997.2	5908.9	5776.4	5677.1	5655.0
45°	5227.2	5428.7	5737.8	6187.7	6386.4	6455.4	6350.5	6124.2	6011.0	5997.2
47.5°	5580.5	5740.6	6126.9	6529.9	6825.2	6836.2	6656.8	6447.1	6240.1	6284.3
50°	5895.1	6107.6	6499.5	6941.1	7294.4	7167.4	6938.3	6676.2	6527.1	6469.2
52.5°	6231.8	6491.2	6946.6	7396.5	7592.4	7465.5	7092.9	6800.4	6574.0	6549.2
55°	6723.1	6858.3	7454.4	7799.4	7862.9	7595.2	7046.0	6632.0	6339.5	6267.7
57.5°	7222.6	7379.9	7901.5	8199.6	8133.4	7523.4	6742.4	6102.1	5718.5	5616.4
60°	7727.7	7920.9	8359.7	8632.9	8290.7	7029.4	5884.1	5058.9	4611.8	4520.7
62.5°	8290.7	8541.8	8933.7	9030.3	7824.3	6052.4	4669.7	3651.3	3198.7	3046.9
65°	8790.2	9046.9	9529.9	8947.5	6833.5	4515.2	3019.3	2086.5	1752.5	1631.1
67.5°	9201.5	9491.2	9728.6	7918.1	5003.7	2644.0	1573.1	1098.4	974.2	930.1
70°	9527.1	10010.1	8900.6	5820.6	2859.2	1288.9	850.0	723.1	706.5	695.5
72.5°	9242.8	9179.4	6645.8	3358.8	1253.0	709.3	615.5	596.1	593.4	596.1
75°	7559.3	6742.4	3974.2	1460.0	629.3	513.3	510.6	502.3	516.1	516.1
77.5°	3667.9	3207.0	1661.4	626.5	414.0	402.9	416.7	416.7	416.7	416.7
80°	850.0	941.1	593.4	380.9	300.8	300.8	331.2	333.9	320.1	314.6
82.5°	289.8	386.4	325.7	240.1	198.7	223.6	251.1	256.7	212.5	215.3
85°	143.5	226.3	176.6	138.0	102.1	138.0	162.8	171.1	146.3	140.8
87.5°	66.2	99.4	66.2	46.9	35.9	49.7	46.9	38.6	22.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)