

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: P479224

Luminaire Tested: **IFLD-S-SA6A-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479224  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

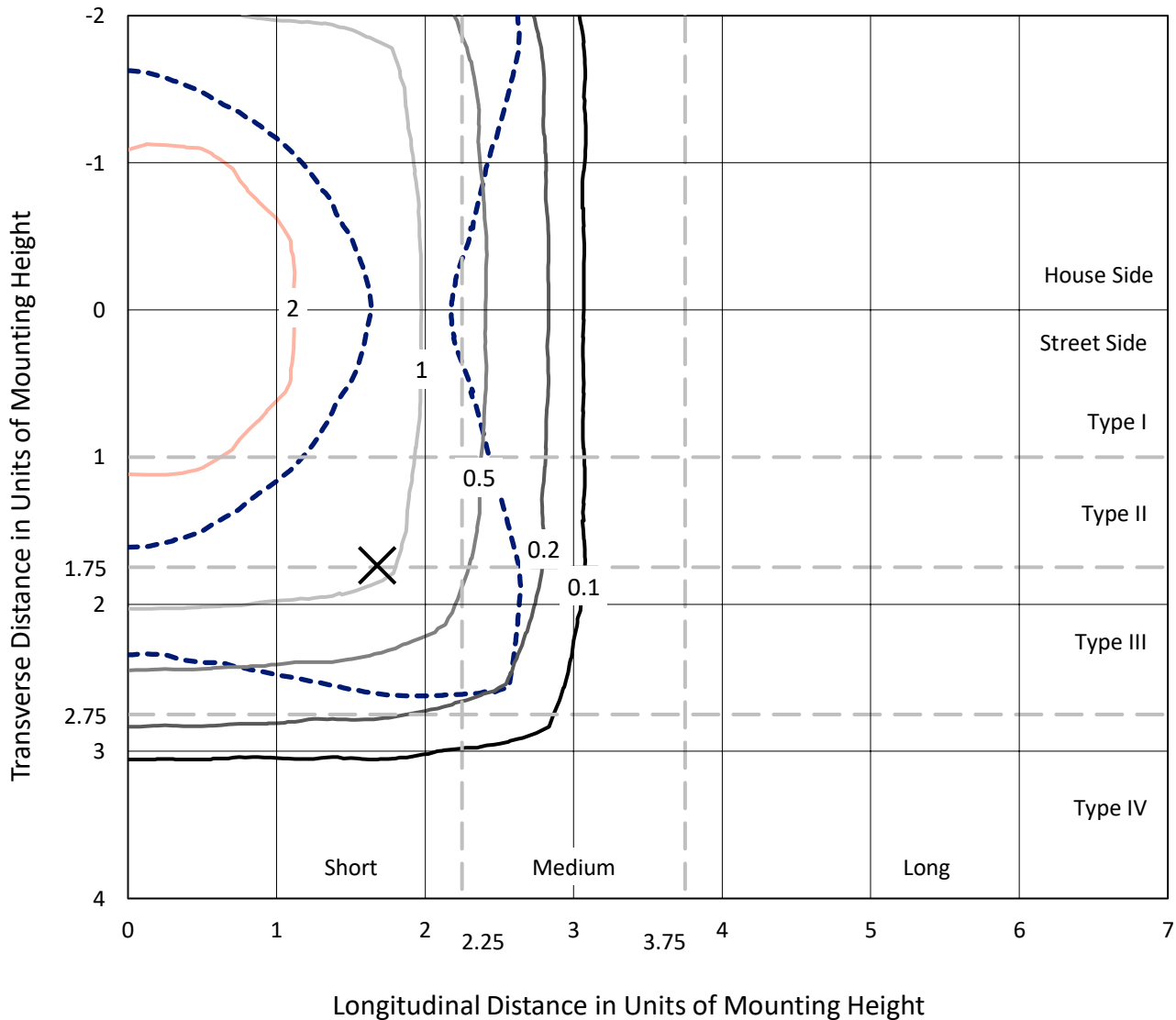
Lumens per Lamp: N/A  
Luminaire Lumens: 22784.1 lumens  
Efficiency: N/A  
Efficacy: 120.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 189.6  
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

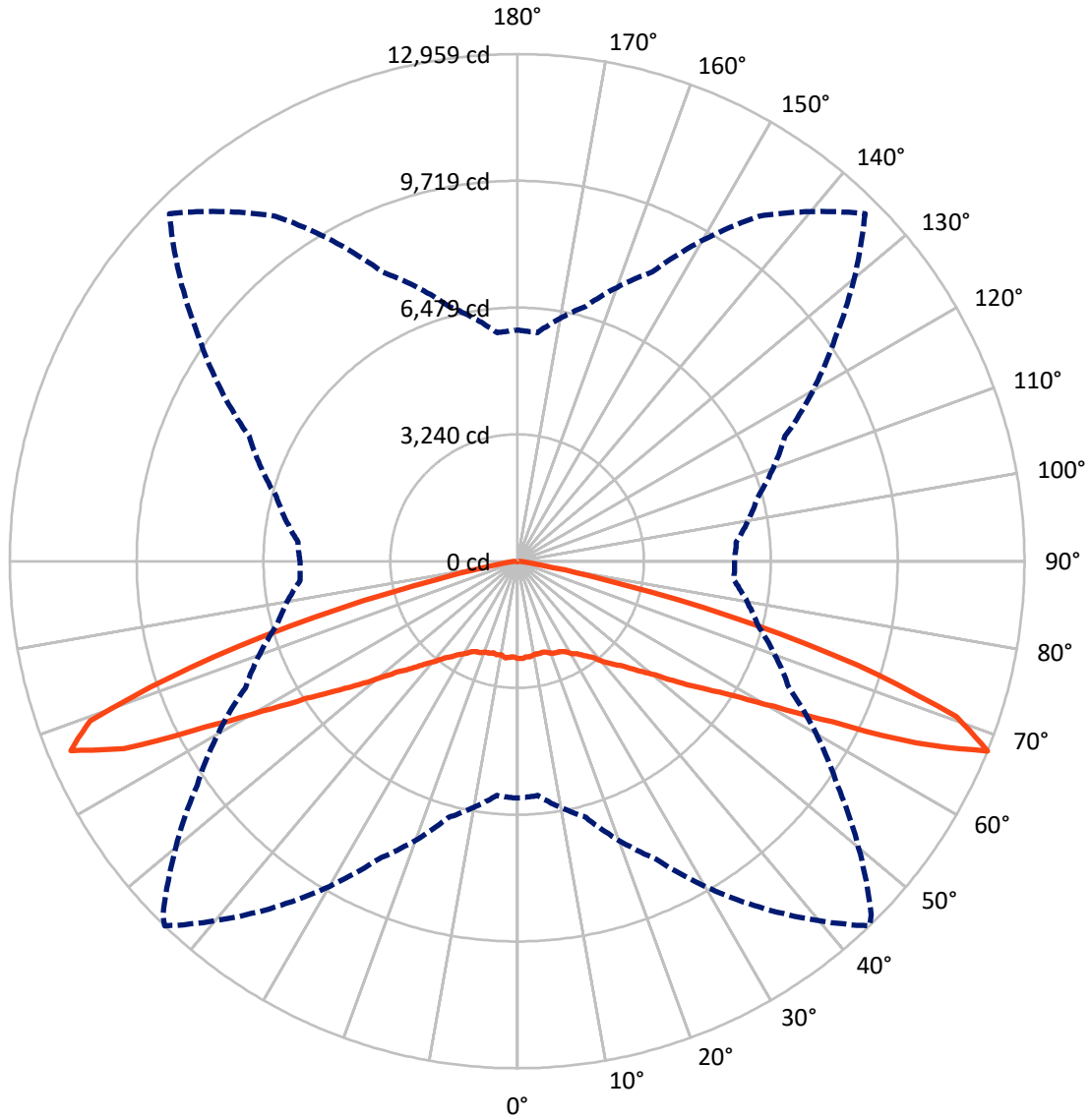
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### 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	11362.9	0.0	11362.9
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11421.2	0.0	11421.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	22784.1	0.0	22784.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.5	1.0
10°-20°	688.0	3.0
20°-30°	1170.1	5.1
30°-40°	1855.2	8.1
40°-50°	3025.0	13.3
50°-60°	5166.3	22.7
60°-70°	7857.9	34.5
70°-80°	2648.6	11.6
80°-90°	137.5	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°	22784.1	100.0
0°-180°	22784.1	100.0

**Coefficient of Utilization**



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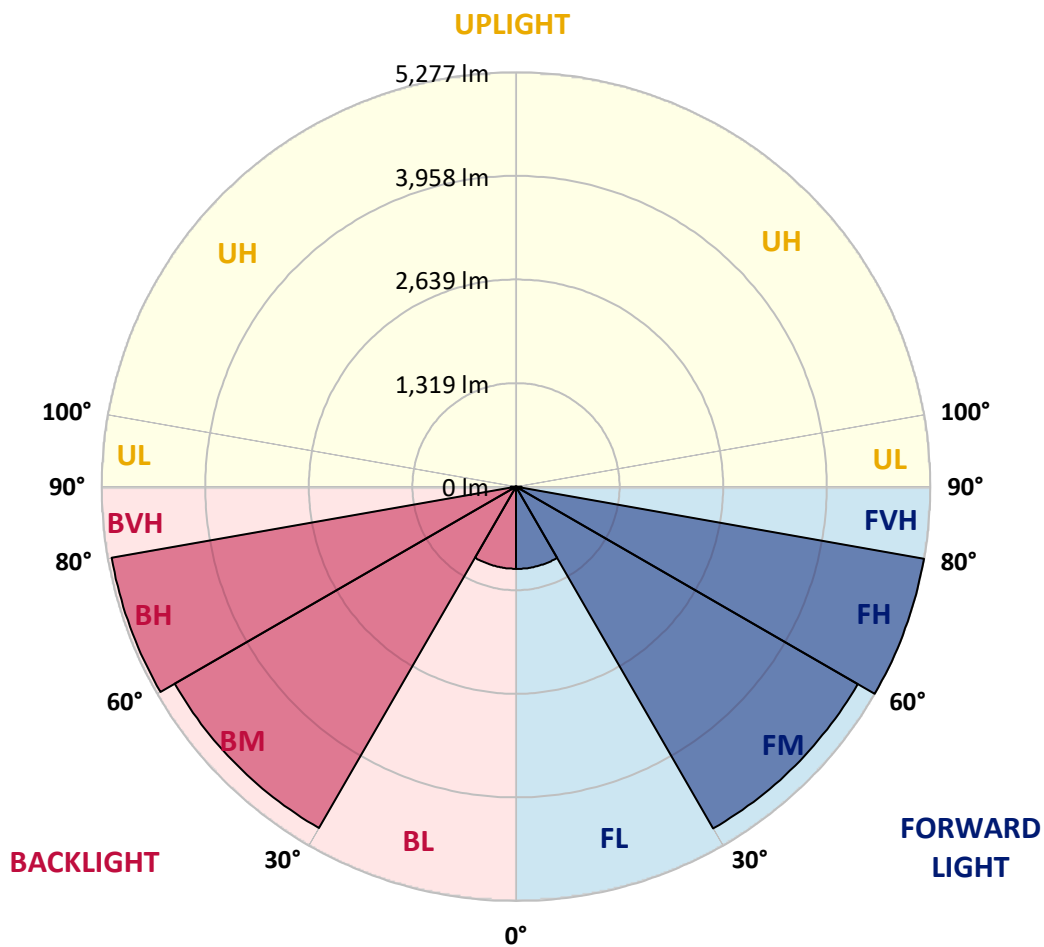
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1047.9	4.6			
FM (30°-60°)	5026.0	22.1			
FH (60°-80°)	5277.0	23.2			G3/7500
FVH (80°-90°)	70.3	0.3			G1/100
BL (0°-30°)	1045.7	4.6	B3/2500		
BM (30°-60°)	5020.5	22.0	B4/8500		
BH (60°-80°)	5229.4	23.0	B5		G3/7500
BVH (80°-90°)	67.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2431.6	2460.2	2481.0	2478.4	2486.2	2494.0	2483.6	2499.2	2488.8	2507.0	2517.4
5°	2478.4	2470.6	2473.2	2457.6	2494.0	2452.4	2452.4	2473.2	2499.2	2468.0	2486.2
7.5°	2449.8	2444.6	2431.6	2455.0	2462.8	2462.8	2483.6	2444.6	2488.8	2499.2	2501.8
10°	2418.5	2389.9	2429.0	2452.4	2457.6	2415.9	2434.2	2444.6	2431.6	2444.6	2452.4
12.5°	2392.5	2408.1	2408.1	2408.1	2400.3	2429.0	2447.2	2444.6	2418.5	2442.0	2400.3
15°	2389.9	2382.1	2405.5	2426.4	2413.3	2418.5	2426.4	2449.8	2400.3	2410.7	2410.7
17.5°	2387.3	2397.7	2405.5	2402.9	2447.2	2447.2	2439.4	2423.8	2462.8	2442.0	2413.3
20°	2397.7	2389.9	2410.7	2418.5	2449.8	2512.2	2488.8	2475.8	2455.0	2429.0	2429.0
22.5°	2410.7	2405.5	2434.2	2468.0	2527.8	2543.4	2540.8	2525.2	2488.8	2457.6	2452.4
25°	2457.6	2410.7	2442.0	2507.0	2527.8	2559.0	2579.8	2559.0	2509.6	2517.4	2470.6
27.5°	2527.8	2520.0	2561.6	2605.8	2587.6	2616.2	2598.0	2613.6	2616.2	2577.2	2530.4
30°	2611.0	2587.6	2613.6	2699.4	2707.2	2738.4	2707.2	2665.6	2678.6	2644.8	2621.4
32.5°	2730.6	2722.8	2772.2	2829.4	2839.8	2824.2	2808.6	2832.0	2777.4	2751.4	2709.8
35°	2808.6	2842.4	2902.3	2946.5	2980.3	2964.7	2972.5	2949.1	2962.1	2907.5	2889.3
37.5°	3040.1	3027.1	3040.1	3115.5	3123.3	3115.5	3123.3	3149.3	3131.1	3084.3	3037.5
40°	3258.5	3237.7	3268.9	3354.8	3349.6	3375.6	3323.6	3352.2	3352.2	3263.7	3245.5
42.5°	3422.4	3492.6	3529.0	3599.2	3625.2	3601.8	3591.4	3596.6	3653.8	3549.8	3510.8
45°	3760.5	3757.9	3867.1	3906.1	3833.3	3828.1	3807.3	3869.7	3908.7	3848.9	3833.3
47.5°	4127.1	4145.3	4207.8	4223.4	4267.6	4187.0	4187.0	4194.8	4332.6	4192.2	4119.3
50°	4457.4	4480.8	4605.6	4727.9	4644.7	4558.8	4592.6	4634.3	4709.7	4577.0	4514.6
52.5°	4857.9	4985.3	5068.6	5133.6	5193.4	5133.6	5055.5	5102.4	5250.6	5073.8	4995.7
55°	5435.2	5536.7	5614.7	5734.3	5783.7	5703.1	5695.3	5690.1	5773.3	5586.1	5479.4
57.5°	6080.2	6038.6	6163.4	6348.0	6527.5	6449.5	6426.1	6431.3	6452.1	6186.8	6106.2
60°	6881.2	6928.0	7076.2	7237.4	7427.3	7536.5	7383.1	7294.7	7312.9	6951.4	6826.6
62.5°	7338.9	7442.9	7778.4	8332.3	8714.6	9055.3	9078.7	8503.9	8119.0	7416.9	6886.4
65°	7117.8	7102.2	7734.2	8758.8	10207.3	11198.1	11049.9	9656.0	8311.5	7195.8	6483.3
67.5°	6054.2	6012.6	6777.1	8402.5	10795.1	12958.7	12789.7	9981.1	7661.3	6366.2	5560.1
70°	3900.9	3890.5	4720.1	6405.3	9637.8	11897.7	11960.1	9065.7	6236.2	4662.9	3864.5
72.5°	1417.3	1503.1	1984.3	3443.2	6545.7	9102.1	9141.1	6712.1	3586.2	2155.9	1589.0
75°	522.7	538.3	626.7	1118.3	2982.9	5588.7	5734.3	3255.9	1274.3	702.2	572.1
77.5°	301.7	304.3	335.5	416.1	884.2	2181.9	2270.3	988.2	494.1	374.5	345.9
80°	205.4	202.8	236.7	270.5	353.7	618.9	657.9	413.5	312.1	260.1	218.4
82.5°	119.6	127.4	174.2	192.4	215.8	273.1	278.3	257.5	234.1	192.4	143.0
85°	72.8	59.8	96.2	106.6	124.8	122.2	122.2	140.4	150.8	135.2	80.6
87.5°	18.2	18.2	23.4	26.0	33.8	26.0	28.6	54.6	72.8	67.6	41.6
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°	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8	2488.8
2.5°	2494.0	2486.2	2491.4	2520.0	2501.8	2447.2	2460.2	2488.8	2465.4	2452.4	2449.8
5°	2483.6	2499.2	2481.0	2486.2	2504.4	2460.2	2468.0	2504.4	2488.8	2494.0	2465.4
7.5°	2486.2	2494.0	2478.4	2455.0	2455.0	2491.4	2470.6	2475.8	2452.4	2491.4	2439.4
10°	2470.6	2449.8	2431.6	2444.6	2439.4	2429.0	2421.2	2436.8	2413.3	2447.2	2410.7
12.5°	2423.8	2429.0	2423.8	2418.5	2429.0	2455.0	2413.3	2418.5	2382.1	2387.3	2405.5
15°	2405.5	2421.2	2415.9	2444.6	2457.6	2418.5	2449.8	2418.5	2389.9	2374.3	2402.9
17.5°	2413.3	2436.8	2429.0	2449.8	2426.4	2455.0	2460.2	2447.2	2413.3	2400.3	2413.3
20°	2421.2	2413.3	2423.8	2460.2	2494.0	2465.4	2465.4	2457.6	2426.4	2408.1	2408.1
22.5°	2439.4	2426.4	2442.0	2470.6	2481.0	2525.2	2486.2	2468.0	2415.9	2369.1	2413.3
25°	2475.8	2483.6	2494.0	2483.6	2540.8	2535.6	2530.4	2517.4	2436.8	2439.4	2431.6
27.5°	2546.0	2501.8	2514.8	2577.2	2585.0	2605.8	2579.8	2603.2	2517.4	2520.0	2468.0
30°	2631.8	2585.0	2626.6	2681.2	2678.6	2717.6	2704.6	2709.8	2650.0	2616.2	2546.0
32.5°	2725.4	2720.2	2746.2	2780.0	2793.0	2813.8	2811.2	2811.2	2774.8	2686.4	2699.4
35°	2829.4	2865.9	2897.1	2933.5	2938.7	2964.7	2928.3	2933.5	2897.1	2832.0	2852.8
37.5°	3034.9	3032.3	3066.1	3110.3	3115.5	3094.7	3123.3	3110.3	3060.9	3016.7	2982.9
40°	3274.1	3222.1	3253.3	3357.4	3365.2	3328.8	3326.2	3323.6	3287.1	3190.9	3170.1
42.5°	3482.2	3549.8	3544.6	3578.4	3555.0	3536.8	3601.8	3565.4	3536.8	3435.4	3417.2
45°	3750.1	3770.9	3838.5	3947.7	3835.9	3835.9	3880.1	3851.5	3835.9	3760.5	3690.2
47.5°	4082.9	4101.1	4236.4	4244.2	4171.3	4121.9	4259.8	4265.0	4200.0	4142.7	4056.9
50°	4473.0	4480.8	4603.0	4727.9	4647.3	4553.6	4694.1	4748.7	4603.0	4525.0	4418.4
52.5°	4902.1	4878.7	4980.1	5214.2	5136.2	5107.6	5258.4	5271.4	5073.8	4951.5	4980.1
55°	5396.2	5365.0	5640.7	5799.3	5749.9	5697.9	5765.5	5796.7	5638.1	5437.8	5508.1
57.5°	6036.0	6051.6	6189.4	6345.4	6426.1	6439.1	6470.3	6439.1	6277.8	6075.0	6010.0
60°	6675.7	6722.5	6990.4	7284.3	7310.3	7539.1	7497.5	7341.5	7112.6	6824.0	6837.0
62.5°	6912.4	6873.4	7305.1	8022.8	8634.0	9052.7	8868.0	8314.1	7783.6	7258.2	7297.3
65°	6436.5	6532.7	7120.4	8243.9	9570.2	11226.8	10243.7	8712.0	7640.5	6961.8	6886.4
67.5°	5547.1	5619.9	6366.2	7552.1	9905.7	12563.5	10763.8	8150.3	6738.1	5859.1	5905.9
70°	3864.5	3900.9	4631.7	6186.8	8982.4	11856.1	9710.6	6259.6	4652.5	3708.4	3760.5
72.5°	1555.2	1643.6	2124.7	3726.6	6631.5	9008.4	6537.9	3284.5	1929.6	1435.5	1302.9
75°	574.7	577.3	678.8	1282.1	3149.3	5661.5	2949.1	1055.8	616.3	504.5	481.1
77.5°	332.9	330.3	353.7	462.9	912.8	2210.5	837.4	413.5	335.5	301.7	288.7
80°	208.0	205.4	241.9	306.9	400.5	605.9	353.7	257.5	226.3	195.0	195.0
82.5°	132.6	135.2	189.8	226.3	244.5	267.9	205.4	182.0	169.0	111.8	109.2
85°	85.8	78.0	132.6	150.8	135.2	119.6	114.4	96.2	88.4	54.6	59.8
87.5°	39.0	41.6	67.6	75.4	49.4	28.6	28.6	20.8	20.8	13.0	13.0
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)