

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: P479459

Luminaire Tested: **IFLD-S-SA6B-827-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479459
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6B-827-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ
distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

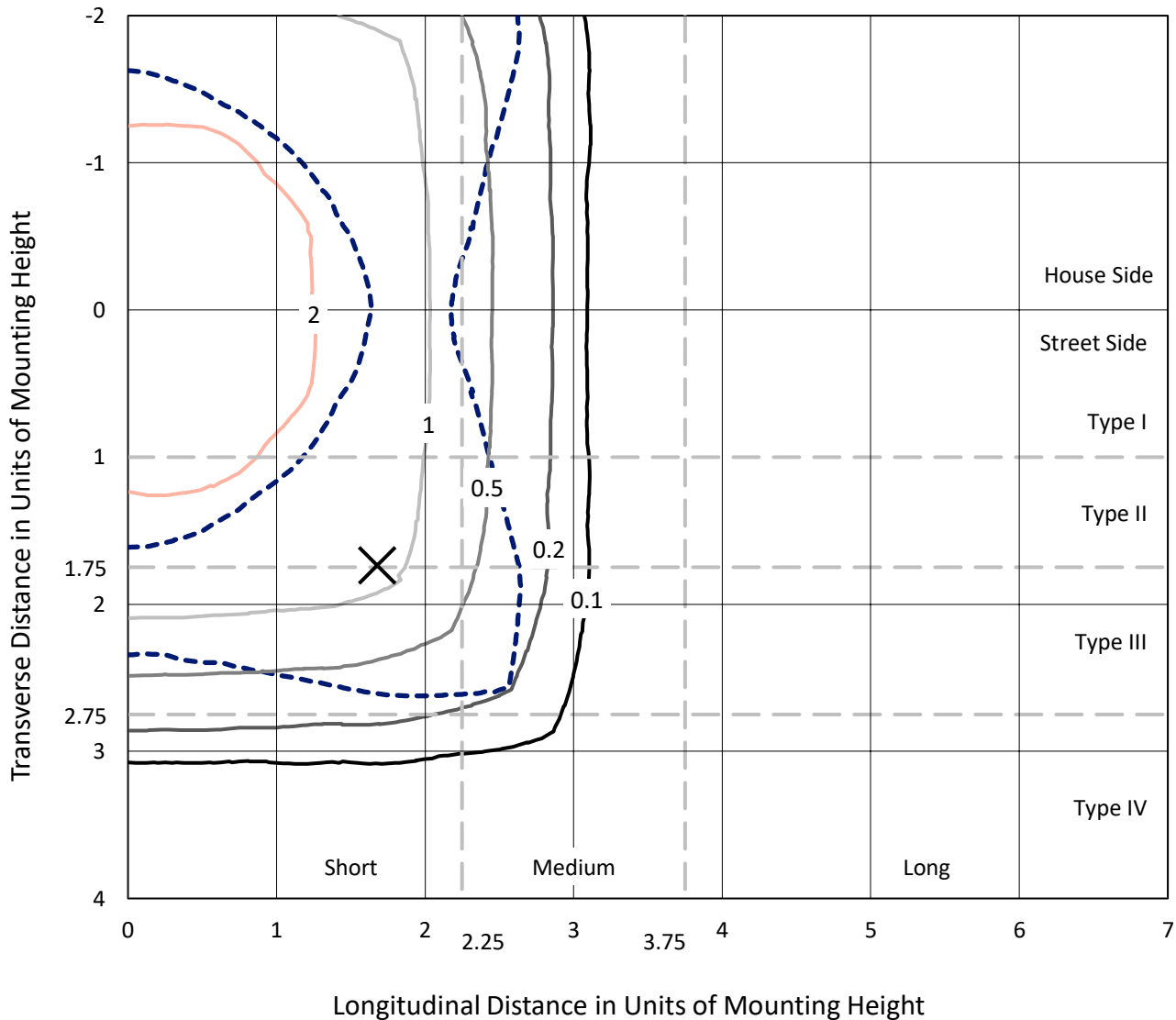
Lumens per Lamp: N/A
Luminaire Lumens: 24768.3 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9
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

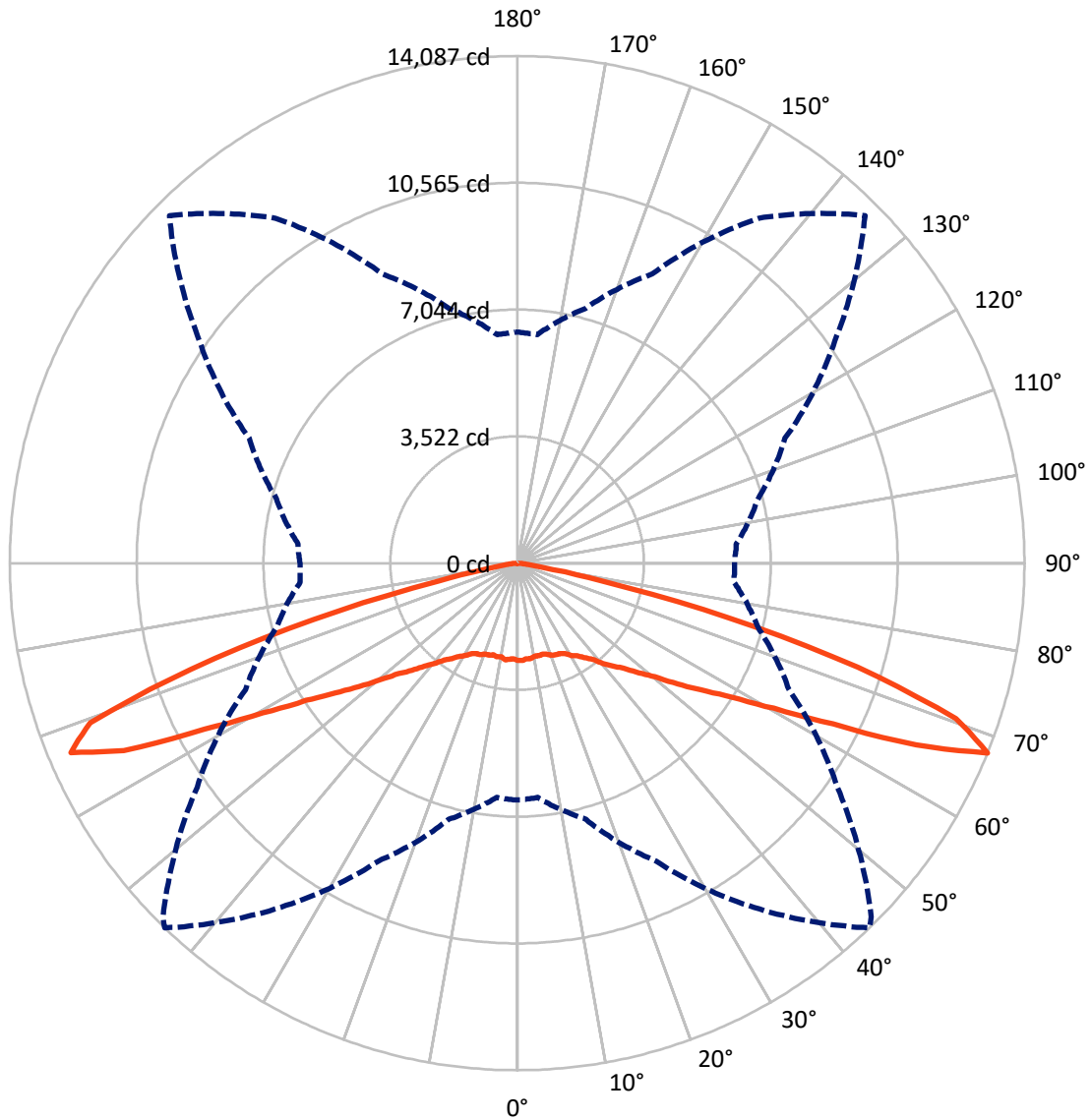
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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
House Side	Lumens	12352.4	0.0	12352.4
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	12415.8	0.0	12415.8
	% Fixture	50.1	0.0	50.1
Total	Lumens	24768.3	0.0	24768.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.0
10°-20°	748.0	3.0
20°-30°	1271.9	5.1
30°-40°	2016.7	8.1
40°-50°	3288.4	13.3
50°-60°	5616.2	22.7
60°-70°	8542.2	34.5
70°-80°	2879.2	11.6
80°-90°	149.5	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°	24768.3	100.0
0°-180°	24768.3	100.0

Coefficient of Utilization

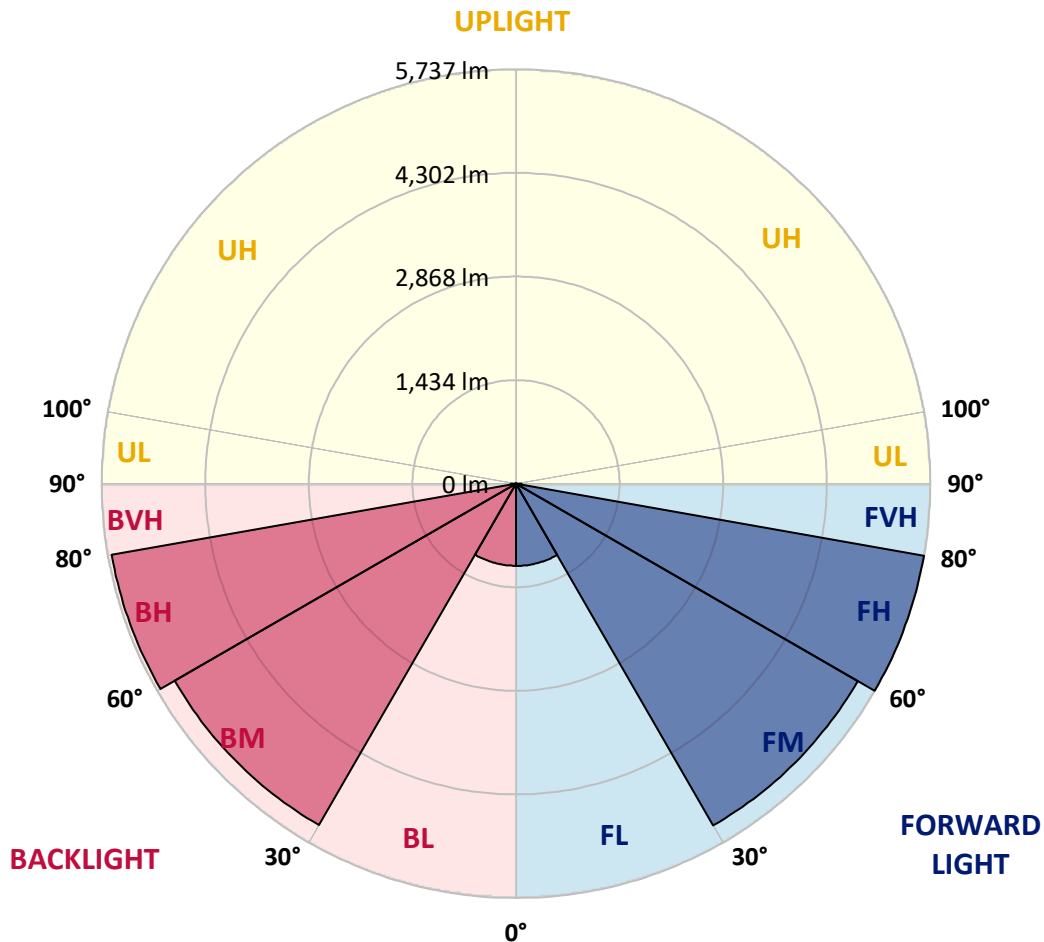


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.1	4.6			
FM (30°-60°)	5463.6	22.1			
FH (60°-80°)	5736.6	23.2			G3/7500
FVH (80°-90°)	76.5	0.3			G1/100
BL (0°-30°)	1136.8	4.6	B3/2500		
BM (30°-60°)	5457.7	22.0	B4/8500		
BH (60°-80°)	5684.9	23.0	B5		G3/7500
BVH (80°-90°)	73.0	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°	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5
2.5°	2643.3	2674.4	2697.0	2694.2	2702.7	2711.2	2699.9	2716.8	2705.5	2725.3	2736.6
5°	2694.2	2685.7	2688.5	2671.6	2711.2	2665.9	2665.9	2688.5	2716.8	2682.9	2702.7
7.5°	2663.1	2657.4	2643.3	2668.8	2677.2	2677.2	2699.9	2657.4	2705.5	2716.8	2719.6
10°	2629.2	2598.1	2640.5	2665.9	2671.6	2626.3	2646.1	2657.4	2643.3	2657.4	2665.9
12.5°	2600.9	2617.9	2617.9	2617.9	2609.4	2640.5	2660.3	2657.4	2629.2	2654.6	2609.4
15°	2598.1	2589.6	2615.0	2637.7	2623.5	2629.2	2637.7	2663.1	2609.4	2620.7	2620.7
17.5°	2595.3	2606.6	2615.0	2612.2	2660.3	2660.3	2651.8	2634.8	2677.2	2654.6	2623.5
20°	2606.6	2598.1	2620.7	2629.2	2663.1	2730.9	2705.5	2691.4	2668.8	2640.5	2640.5
22.5°	2620.7	2615.0	2646.1	2682.9	2747.9	2764.9	2762.0	2745.1	2705.5	2671.6	2665.9
25°	2671.6	2620.7	2654.6	2725.3	2747.9	2781.8	2804.5	2781.8	2728.1	2736.6	2685.7
27.5°	2747.9	2739.4	2784.7	2832.7	2812.9	2844.0	2824.2	2841.2	2844.0	2801.6	2750.7
30°	2838.4	2812.9	2841.2	2934.5	2943.0	2976.9	2943.0	2897.7	2911.9	2875.1	2849.7
32.5°	2968.4	2959.9	3013.7	3075.9	3087.2	3070.2	3053.2	3078.7	3019.3	2991.0	2945.8
35°	3053.2	3090.0	3155.0	3203.1	3239.8	3222.9	3231.3	3205.9	3220.0	3160.7	3140.9
37.5°	3304.8	3290.7	3304.8	3386.8	3395.3	3386.8	3395.3	3423.6	3403.8	3352.9	3302.0
40°	3542.3	3519.7	3553.6	3646.9	3641.3	3669.5	3613.0	3644.1	3644.1	3548.0	3528.2
42.5°	3720.4	3796.8	3836.3	3912.7	3940.9	3915.5	3904.2	3909.8	3972.0	3859.0	3816.5
45°	4087.9	4085.1	4203.9	4246.3	4167.1	4161.4	4138.8	4206.7	4249.1	4184.1	4167.1
47.5°	4486.6	4506.3	4574.2	4591.2	4639.2	4551.6	4551.6	4560.1	4709.9	4557.2	4478.1
50°	4845.6	4871.0	5006.7	5139.6	5049.1	4955.9	4992.6	5037.8	5119.8	4975.6	4907.8
52.5°	5281.0	5419.5	5510.0	5580.6	5645.7	5580.6	5495.8	5546.7	5707.9	5515.6	5430.8
55°	5908.6	6018.8	6103.6	6233.7	6287.4	6199.8	6191.3	6185.6	6276.1	6072.5	5956.6
57.5°	6609.7	6564.5	6700.2	6900.9	7095.9	7011.1	6985.7	6991.3	7014.0	6725.6	6638.0
60°	7480.4	7531.3	7692.5	7867.7	8074.1	8192.8	8026.1	7929.9	7949.7	7556.8	7421.1
62.5°	7978.0	8091.1	8455.8	9057.9	9473.5	9843.9	9869.3	9244.5	8826.1	8062.8	7486.1
65°	7737.7	7720.7	8407.7	9521.6	11096.2	12173.4	12012.2	10496.9	9035.3	7822.5	7047.9
67.5°	6581.4	6536.2	7367.3	9134.3	11735.2	14087.3	13903.5	10850.3	8328.5	6920.7	6044.3
70°	4240.6	4229.3	5131.1	6963.1	10477.1	12933.8	13001.7	9855.2	6779.3	5068.9	4201.0
72.5°	1540.8	1634.0	2157.1	3743.0	7115.7	9894.7	9937.2	7296.7	3898.5	2343.6	1727.3
75°	568.2	585.2	681.3	1215.6	3242.6	6075.4	6233.7	3539.5	1385.3	763.3	622.0
77.5°	327.9	330.8	364.7	452.3	961.2	2371.9	2468.0	1074.3	537.1	407.1	376.0
80°	223.3	220.5	257.3	294.0	384.5	672.8	715.2	449.5	339.2	282.7	237.5
82.5°	130.0	138.5	189.4	209.2	234.6	296.8	302.5	279.9	254.4	209.2	155.5
85°	79.2	65.0	104.6	115.9	135.7	132.9	132.9	152.7	164.0	147.0	87.6
87.5°	19.8	19.8	25.4	28.3	36.8	28.3	31.1	59.4	79.2	73.5	45.2
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°	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5	2705.5
2.5°	2711.2	2702.7	2708.3	2739.4	2719.6	2660.3	2674.4	2705.5	2680.1	2665.9	2663.1
5°	2699.9	2716.8	2697.0	2702.7	2722.5	2674.4	2682.9	2722.5	2705.5	2711.2	2680.1
7.5°	2702.7	2711.2	2694.2	2668.8	2668.8	2708.3	2685.7	2691.4	2665.9	2708.3	2651.8
10°	2685.7	2663.1	2643.3	2657.4	2651.8	2640.5	2632.0	2649.0	2623.5	2660.3	2620.7
12.5°	2634.8	2640.5	2634.8	2629.2	2640.5	2668.8	2623.5	2629.2	2589.6	2595.3	2615.0
15°	2615.0	2632.0	2626.3	2657.4	2671.6	2629.2	2663.1	2629.2	2598.1	2581.1	2612.2
17.5°	2623.5	2649.0	2640.5	2663.1	2637.7	2668.8	2674.4	2660.3	2623.5	2609.4	2623.5
20°	2632.0	2623.5	2634.8	2674.4	2711.2	2680.1	2680.1	2671.6	2637.7	2617.9	2617.9
22.5°	2651.8	2637.7	2654.6	2685.7	2697.0	2745.1	2702.7	2682.9	2626.3	2575.5	2623.5
25°	2691.4	2699.9	2711.2	2699.9	2762.0	2756.4	2750.7	2736.6	2649.0	2651.8	2643.3
27.5°	2767.7	2719.6	2733.8	2801.6	2810.1	2832.7	2804.5	2829.9	2736.6	2739.4	2682.9
30°	2861.0	2810.1	2855.3	2914.7	2911.9	2954.3	2940.2	2945.8	2880.8	2844.0	2767.7
32.5°	2962.8	2957.1	2985.4	3022.1	3036.3	3058.9	3056.1	3056.1	3016.5	2920.4	2934.5
35°	3075.9	3115.4	3149.4	3188.9	3194.6	3222.9	3183.3	3188.9	3149.4	3078.7	3101.3
37.5°	3299.2	3296.4	3333.1	3381.2	3386.8	3364.2	3395.3	3381.2	3327.5	3279.4	3242.6
40°	3559.3	3502.7	3536.7	3649.7	3658.2	3618.6	3615.8	3613.0	3573.4	3468.8	3446.2
42.5°	3785.4	3859.0	3853.3	3890.0	3864.6	3844.8	3915.5	3875.9	3844.8	3734.6	3714.8
45°	4076.6	4099.3	4172.8	4291.5	4169.9	4169.9	4218.0	4186.9	4169.9	4087.9	4011.6
47.5°	4438.5	4458.3	4605.3	4613.8	4534.6	4480.9	4630.7	4636.4	4565.7	4503.5	4410.2
50°	4862.6	4871.0	5003.9	5139.6	5052.0	4950.2	5102.9	5162.2	5003.9	4919.1	4803.2
52.5°	5329.0	5303.6	5413.8	5668.3	5583.5	5552.4	5716.3	5730.5	5515.6	5382.7	5413.8
55°	5866.2	5832.2	6131.9	6304.4	6250.7	6194.1	6267.6	6301.5	6129.1	5911.4	5987.7
57.5°	6561.6	6578.6	6728.4	6898.1	6985.7	6999.8	7033.7	6999.8	6824.5	6604.0	6533.4
60°	7257.1	7308.0	7599.2	7918.6	7946.9	8195.7	8150.4	7980.8	7732.0	7418.2	7432.4
62.5°	7514.4	7471.9	7941.2	8721.5	9385.9	9841.0	9640.3	9038.1	8461.4	7890.4	7932.8
65°	6997.0	7101.6	7740.5	8961.8	10403.6	12204.5	11135.8	9470.7	8305.9	7568.1	7486.1
67.5°	6030.1	6109.3	6920.7	8209.8	10768.3	13657.6	11701.2	8860.0	7324.9	6369.4	6420.3
70°	4201.0	4240.6	5035.0	6725.6	9764.7	12888.6	10556.3	6804.8	5057.6	4031.4	4087.9
72.5°	1690.6	1786.7	2309.7	4051.2	7209.0	9793.0	7107.3	3570.6	2097.7	1560.5	1416.4
75°	624.8	627.6	737.9	1393.7	3423.6	6154.5	3205.9	1147.8	670.0	548.5	523.0
77.5°	361.9	359.0	384.5	503.2	992.3	2403.0	910.3	449.5	364.7	327.9	313.8
80°	226.2	223.3	262.9	333.6	435.4	658.7	384.5	279.9	246.0	212.0	212.0
82.5°	144.2	147.0	206.4	246.0	265.7	291.2	223.3	197.9	183.8	121.6	118.7
85°	93.3	84.8	144.2	164.0	147.0	130.0	124.4	104.6	96.1	59.4	65.0
87.5°	42.4	45.2	73.5	82.0	53.7	31.1	31.1	22.6	22.6	14.1	14.1
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)