

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: P478840

Luminaire Tested: **IFLD-M-SA4B-727-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478840  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-727-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

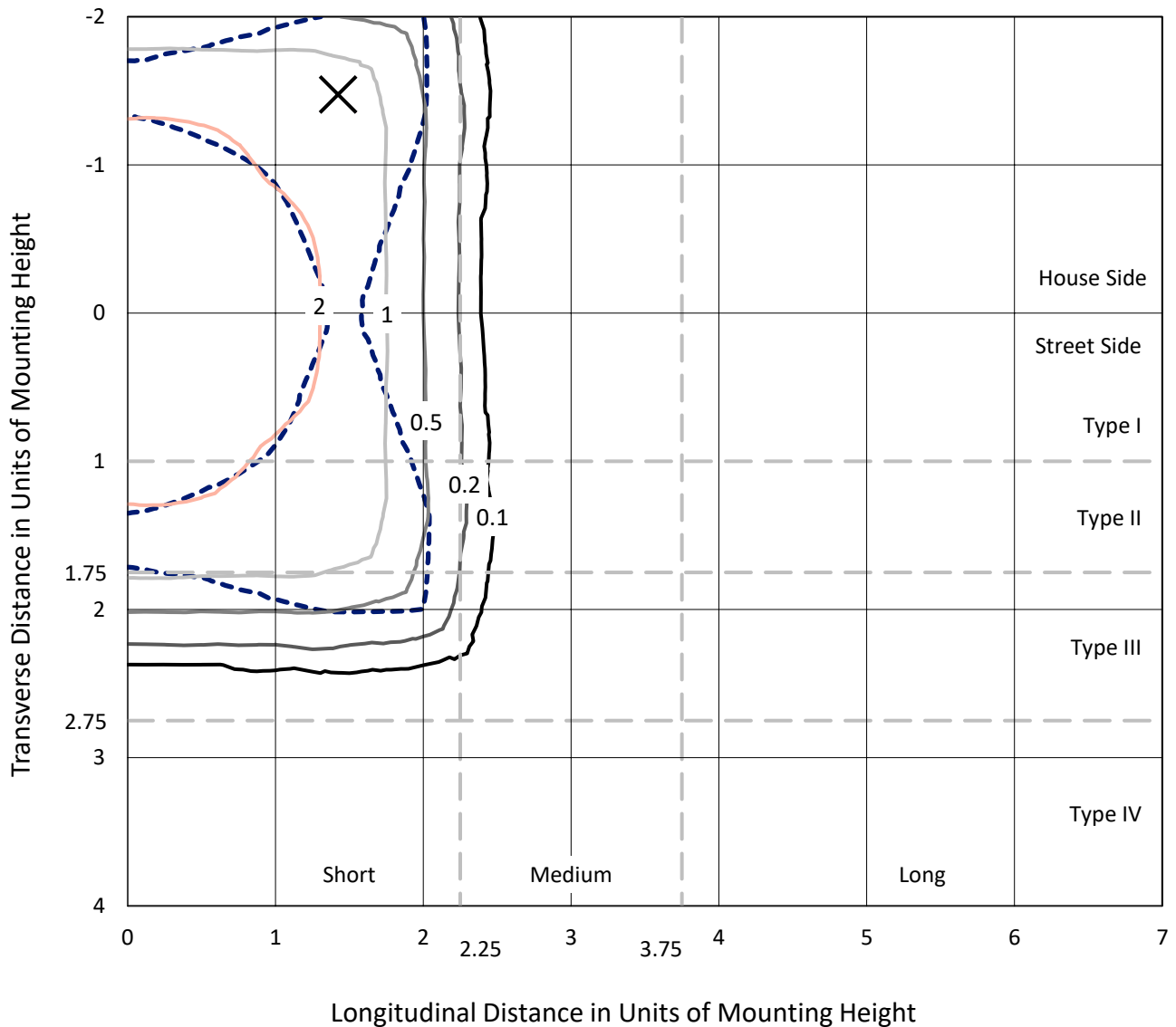
Lumens per Lamp: N/A  
Luminaire Lumens: 19050.5 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1  
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

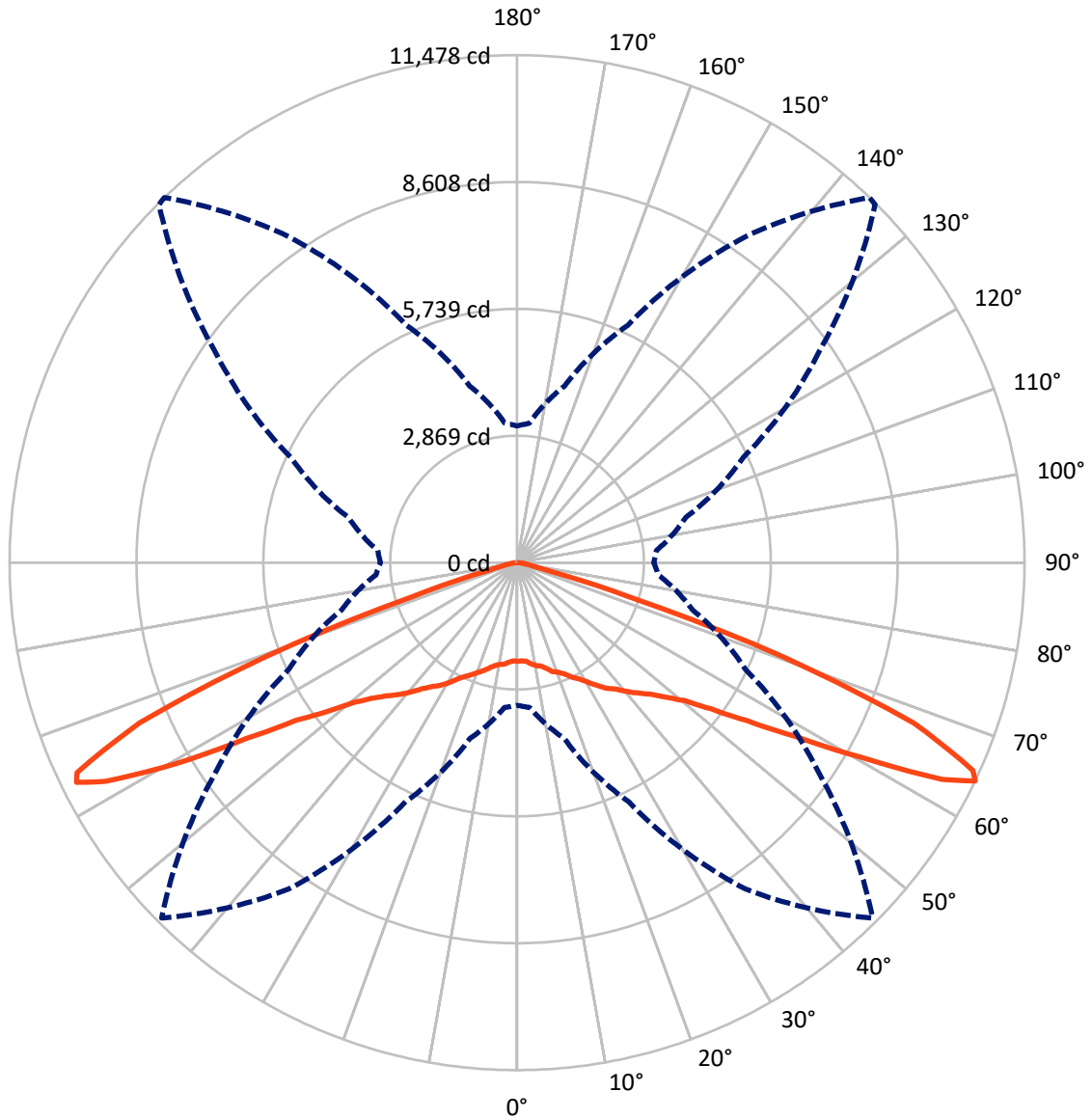
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 136-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9534.3	0.0	9534.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9516.2	0.0	9516.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	19050.5	0.0	19050.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	219.2	1.2
10°-20°	706.3	3.7
20°-30°	1327.5	7.0
30°-40°	2189.3	11.5
40°-50°	3423.9	18.0
50°-60°	5532.1	29.0
60°-70°	4981.3	26.1
70°-80°	590.1	3.1
80°-90°	80.8	0.4
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°	19050.5	100.0
0°-180°	19050.5	100.0



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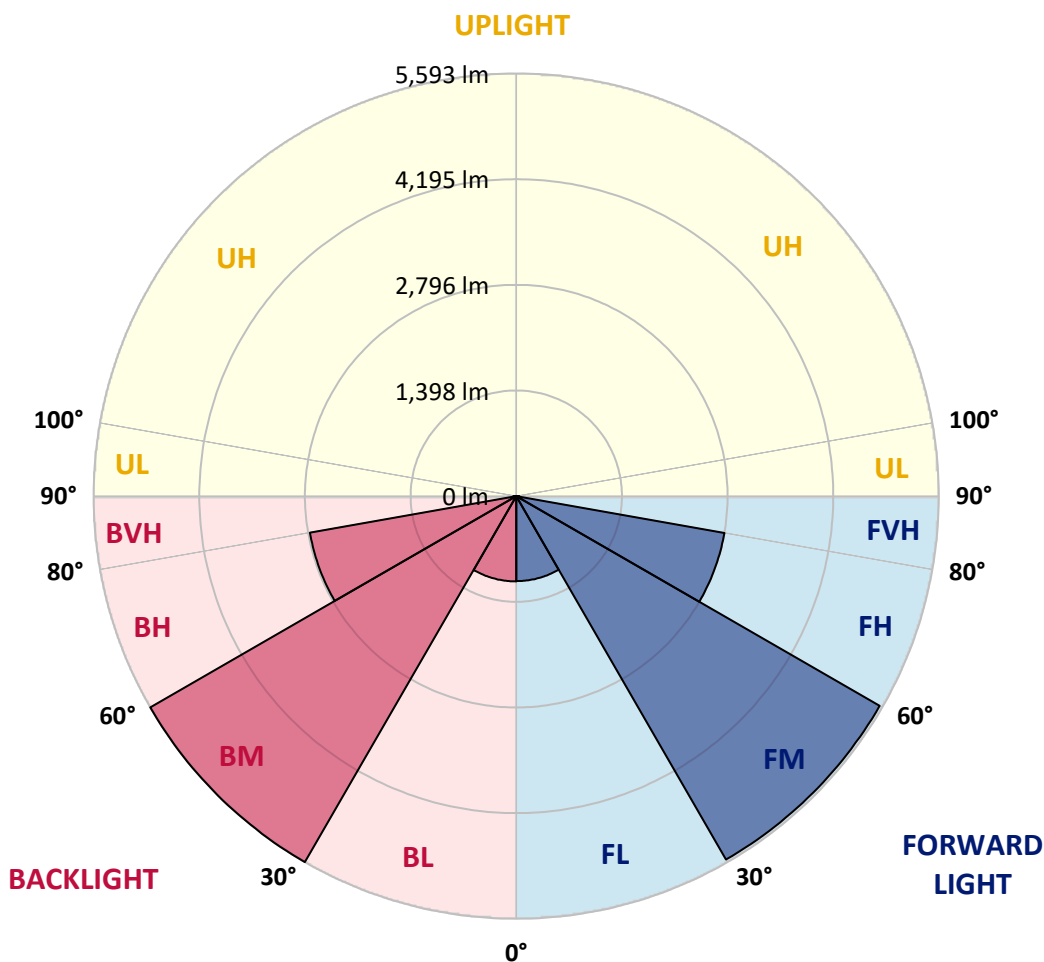
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1124.3	5.9			
FM (30°-60°)	5552.6	29.1			
FH (60°-80°)	2797.8	14.7			G2/5000
FVH (80°-90°)	41.4	0.2			G1/100
BL (0°-30°)	1128.7	5.9	B3/2500		
BM (30°-60°)	5592.7	29.4	B4/8500		
BH (60°-80°)	2773.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	39.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2204.2	2208.6	2247.9	2232.6	2245.7	2221.7	2239.2	2276.3	2232.6	2265.4	2276.3
5°	2228.2	2234.8	2234.8	2250.1	2258.8	2254.4	2265.4	2250.1	2291.6	2274.1	2300.3
7.5°	2315.6	2304.7	2287.2	2300.3	2302.5	2313.4	2324.4	2344.0	2337.5	2322.2	2348.4
10°	2330.9	2322.2	2348.4	2350.6	2339.6	2330.9	2341.8	2341.8	2361.5	2365.9	2365.9
12.5°	2357.1	2365.9	2363.7	2381.2	2383.3	2376.8	2394.3	2427.0	2418.3	2424.8	2409.5
15°	2457.6	2446.7	2444.5	2462.0	2490.4	2448.9	2479.5	2477.3	2468.5	2481.6	2446.7
17.5°	2545.0	2510.0	2525.3	2553.7	2542.8	2551.5	2590.9	2555.9	2564.7	2549.4	2538.4
20°	2621.4	2593.1	2595.2	2606.2	2606.2	2632.4	2647.7	2634.6	2625.8	2623.6	2628.0
22.5°	2706.6	2673.9	2676.1	2721.9	2737.2	2728.5	2717.6	2739.4	2743.8	2726.3	2746.0
25°	2770.0	2805.0	2815.9	2837.7	2805.0	2829.0	2820.2	2861.7	2888.0	2853.0	2877.0
27.5°	2936.0	2920.7	2949.1	2946.9	2973.2	2949.1	2964.4	2977.5	2988.5	2990.6	2979.7
30°	3084.6	3091.1	3062.7	3139.2	3078.0	3117.3	3143.6	3150.1	3163.2	3163.2	3130.4
32.5°	3241.9	3228.8	3274.6	3257.2	3246.2	3276.8	3248.4	3338.0	3285.6	3316.1	3279.0
35°	3418.8	3418.8	3436.3	3484.3	3418.8	3399.1	3451.6	3488.7	3488.7	3434.1	3447.2
37.5°	3617.6	3600.1	3622.0	3683.1	3632.9	3567.4	3663.5	3678.8	3667.8	3652.6	3626.3
40°	3757.4	3753.0	3796.7	3877.6	3805.5	3792.4	3809.8	3851.3	3864.5	3879.7	3844.8
42.5°	3993.3	4013.0	4139.7	4120.0	4061.1	4015.2	4010.8	4165.9	4128.8	4089.5	4069.8
45°	4342.9	4325.4	4390.9	4393.1	4316.7	4216.2	4238.0	4380.0	4443.4	4356.0	4388.7
47.5°	4620.3	4629.0	4674.9	4768.9	4591.9	4487.0	4567.9	4797.3	4777.6	4744.8	4775.4
50°	4991.7	5031.0	5175.2	5142.4	4985.1	4856.2	5033.2	5249.5	5273.5	5153.3	5131.5
52.5°	5505.0	5566.2	5644.9	5671.1	5520.3	5474.5	5485.4	5754.1	5695.1	5579.3	5505.0
55°	5955.1	5983.5	6127.6	6343.9	6333.0	6112.3	6239.1	6339.5	6099.2	5861.1	5880.8
57.5°	6147.3	6160.4	6562.4	6994.9	7252.7	7302.9	7158.7	6820.1	6247.8	5789.0	5760.6
60°	5668.9	5793.4	6278.4	7254.9	8432.3	9013.4	8054.4	6874.8	5900.4	5343.4	5301.9
62.5°	4530.7	4537.3	5258.2	6739.3	9166.3	10689.0	8397.4	6361.4	4974.2	4342.9	4176.8
64°	3226.6	3287.7	4115.7	5966.0	9013.4	11370.5	8355.9	5690.7	4100.4	3204.7	3088.9
65°	2315.6	2400.8	3200.4	5179.5	8655.2	11289.7	8231.4	5114.0	3316.1	2446.7	2328.7
67.5°	852.0	886.9	1256.1	2590.9	6215.0	9620.7	6523.0	2811.5	1457.1	1037.7	932.8
70°	395.4	397.6	465.3	856.3	2717.6	6433.5	3113.0	1055.1	548.3	434.7	404.1
72.5°	290.5	297.1	325.5	395.4	799.5	2724.1	1022.4	432.5	321.1	284.0	277.4
75°	235.9	240.3	249.0	286.2	369.2	729.6	415.1	299.3	255.6	229.4	220.6
77.5°	181.3	181.3	201.0	218.5	244.7	340.8	275.3	238.1	207.5	181.3	174.8
80°	131.1	133.3	157.3	170.4	166.0	225.0	198.8	196.6	170.4	142.0	131.1
82.5°	76.5	83.0	113.6	122.3	118.0	133.3	144.2	152.9	133.3	98.3	89.6
85°	43.7	45.9	65.5	67.7	67.7	63.4	83.0	91.8	89.6	61.2	54.6
87.5°	13.1	13.1	17.5	17.5	19.7	21.8	32.8	39.3	43.7	30.6	28.4
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4	2230.4
2.5°	2265.4	2232.6	2234.8	2243.5	2215.1	2226.0	2258.8	2234.8	2228.2	2215.1	2208.6
5°	2254.4	2289.4	2276.3	2280.7	2274.1	2243.5	2239.2	2258.8	2269.7	2250.1	2289.4
7.5°	2330.9	2315.6	2298.1	2304.7	2289.4	2315.6	2333.1	2293.8	2313.4	2302.5	2280.7
10°	2374.6	2346.2	2359.3	2354.9	2344.0	2370.2	2352.8	2348.4	2330.9	2306.9	2341.8
12.5°	2389.9	2422.7	2444.5	2407.4	2413.9	2400.8	2389.9	2389.9	2370.2	2363.7	2370.2
15°	2457.6	2486.0	2477.3	2505.7	2468.5	2481.6	2494.7	2462.0	2479.5	2431.4	2468.5
17.5°	2582.1	2558.1	2588.7	2551.5	2564.7	2590.9	2549.4	2549.4	2562.5	2536.3	2503.5
20°	2660.8	2649.8	2638.9	2641.1	2619.3	2643.3	2630.2	2623.6	2604.0	2612.7	2630.2
22.5°	2735.0	2719.8	2724.1	2730.7	2746.0	2735.0	2728.5	2735.0	2687.0	2730.7	2669.5
25°	2826.8	2868.3	2855.2	2883.6	2839.9	2868.3	2866.1	2824.6	2850.8	2833.4	2820.2
27.5°	2979.7	2957.9	2977.5	2942.6	2973.2	2975.3	2949.1	3019.0	2988.5	2984.1	2975.3
30°	3176.3	3161.0	3147.9	3128.3	3152.3	3132.6	3154.5	3161.0	3132.6	3110.8	3069.3
32.5°	3287.7	3329.2	3344.5	3296.5	3298.7	3309.6	3289.9	3270.3	3287.7	3294.3	3287.7
35°	3445.0	3484.3	3493.1	3455.9	3436.3	3490.9	3451.6	3517.1	3460.3	3462.5	3403.5
37.5°	3628.5	3639.4	3713.7	3672.2	3654.7	3628.5	3700.6	3691.9	3705.0	3600.1	3652.6
40°	3836.1	3875.4	3916.9	3812.0	3809.8	3833.9	3829.5	3879.7	3855.7	3840.4	3803.3
42.5°	4063.2	4146.3	4152.8	4082.9	4039.2	4034.8	4056.7	4168.1	4170.3	4069.8	4026.1
45°	4364.7	4456.5	4432.4	4297.0	4248.9	4242.4	4349.4	4397.5	4439.0	4399.7	4362.5
47.5°	4740.5	4801.6	4784.1	4659.6	4504.5	4548.2	4653.1	4803.8	4760.1	4707.7	4664.0
50°	5142.4	5214.5	5177.4	5052.8	4904.3	4904.3	5033.2	5225.4	5212.3	5109.6	5070.3
52.5°	5588.1	5692.9	5778.1	5601.2	5476.6	5496.3	5699.5	5769.4	5736.6	5664.5	5631.7
55°	5920.1	6121.1	6295.8	6304.6	6311.1	6309.0	6361.4	6431.3	6197.5	6081.8	5963.8
57.5°	5839.3	6219.4	6818.0	7224.3	7344.4	7407.8	7390.3	7067.0	6514.3	6134.2	6173.5
60°	5262.6	5883.0	6848.5	8152.7	9026.5	8939.1	8620.2	7342.2	6339.5	5697.3	5616.5
62.5°	4198.7	4945.8	6335.2	8414.9	10822.2	10796.0	9127.0	6706.5	5282.2	4469.6	4419.3
64°	3163.2	3949.7	5651.4	8347.1	11451.4	11477.6	8998.1	5924.5	4133.2	3163.2	3086.8
65°	2420.5	3150.1	4980.8	8207.3	11315.9	11331.2	8639.9	5116.2	3141.4	2245.7	2162.7
67.5°	963.4	1341.3	2702.3	6223.8	9716.8	9675.3	6164.8	2475.1	1201.5	782.1	766.8
70°	410.7	511.2	948.1	2949.1	6505.6	6385.4	2654.2	803.9	445.6	373.6	371.4
72.5°	281.8	312.4	406.3	911.0	2704.5	2641.1	755.9	373.6	303.7	279.6	279.6
75°	227.2	249.0	294.9	382.3	716.5	690.3	356.1	275.3	242.5	225.0	222.8
77.5°	176.9	198.8	231.6	264.3	327.7	325.5	238.1	207.5	187.9	174.8	170.4
80°	139.8	161.7	183.5	187.9	214.1	209.7	161.7	163.8	152.9	126.7	124.5
82.5°	96.1	131.1	146.4	133.3	126.7	126.7	115.8	115.8	107.0	78.6	72.1
85°	59.0	87.4	91.8	78.6	59.0	59.0	63.4	61.2	56.8	41.5	39.3
87.5°	30.6	41.5	37.1	30.6	19.7	19.7	17.5	13.1	13.1	10.9	10.9
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)