

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: P479115

Luminaire Tested: **IFLD-M-SA4D-830-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479115  
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-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

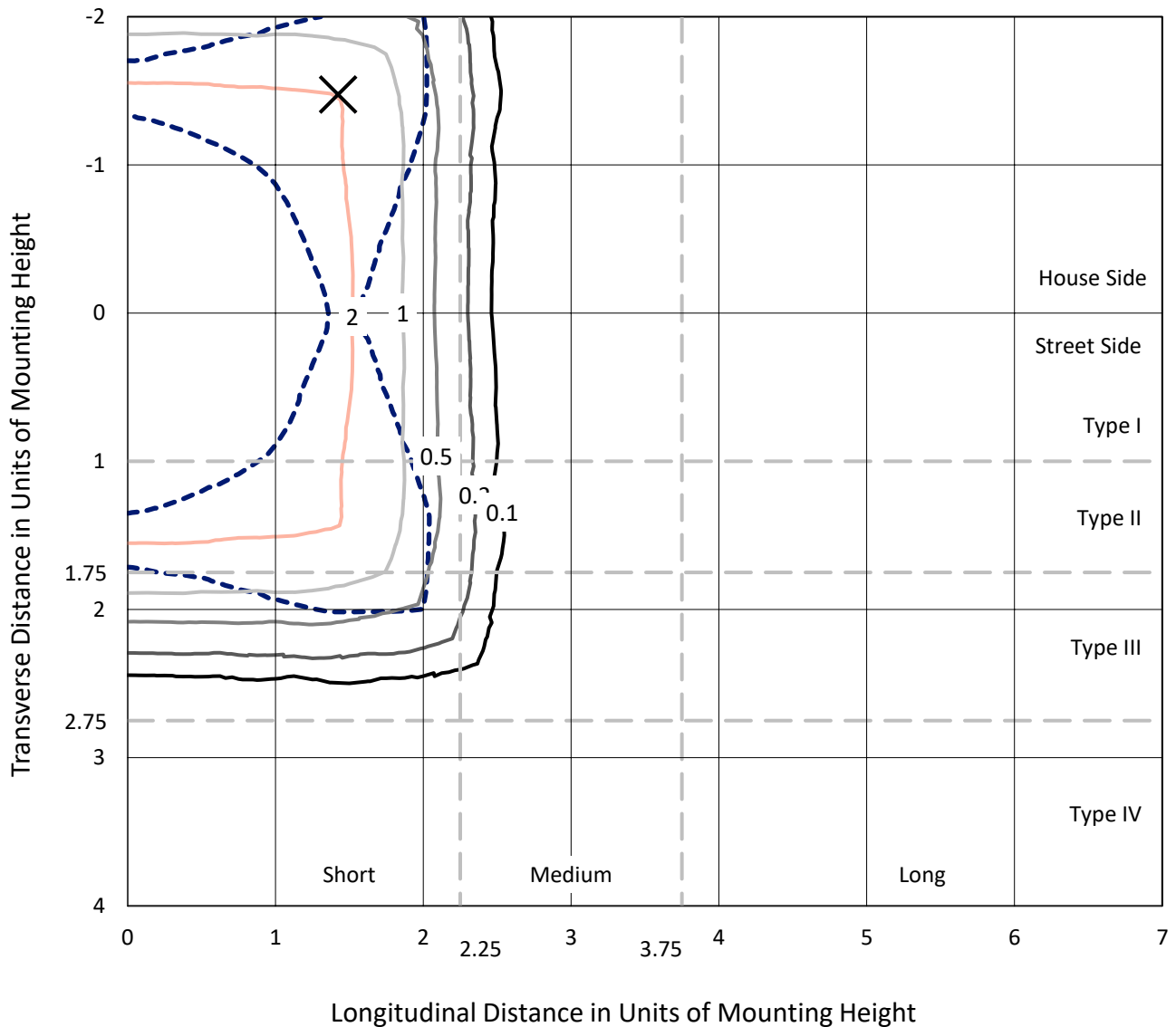
Lumens per Lamp: N/A  
Luminaire Lumens: 24792.9 lumens  
Efficiency: N/A  
Efficacy: 99.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

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### Iso-Footcandle Lines of Horizontal Illumination

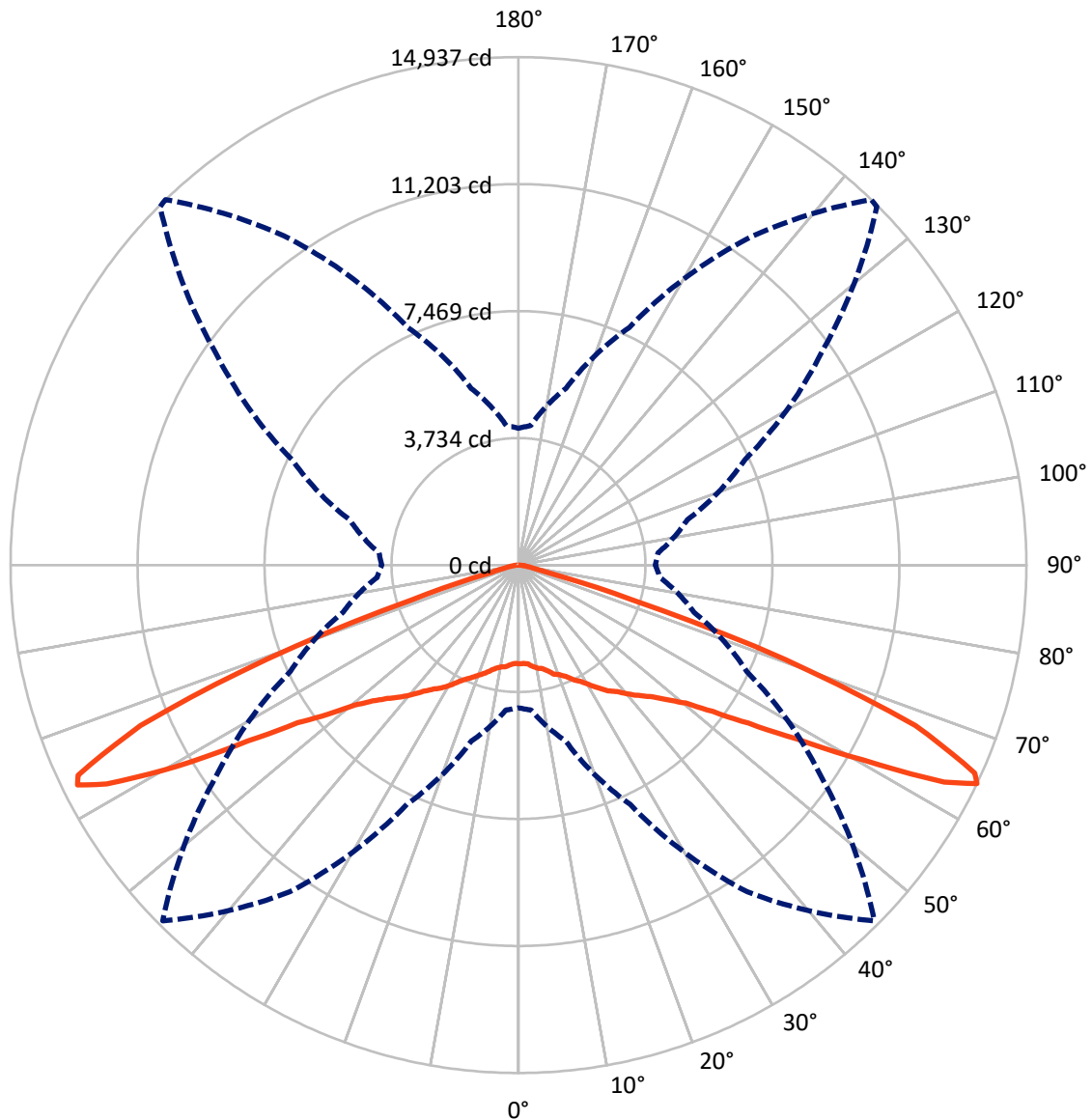
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	12408.3	0.0	12408.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12384.6	0.0	12384.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	24792.9	0.0	24792.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	285.2	1.2
10°-20°	919.3	3.7
20°-30°	1727.7	7.0
30°-40°	2849.2	11.5
40°-50°	4455.9	18.0
50°-60°	7199.7	29.0
60°-70°	6482.9	26.1
70°-80°	767.9	3.1
80°-90°	105.1	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°	24792.9	100.0
0°-180°	24792.9	100.0

**Coefficient of Utilization**



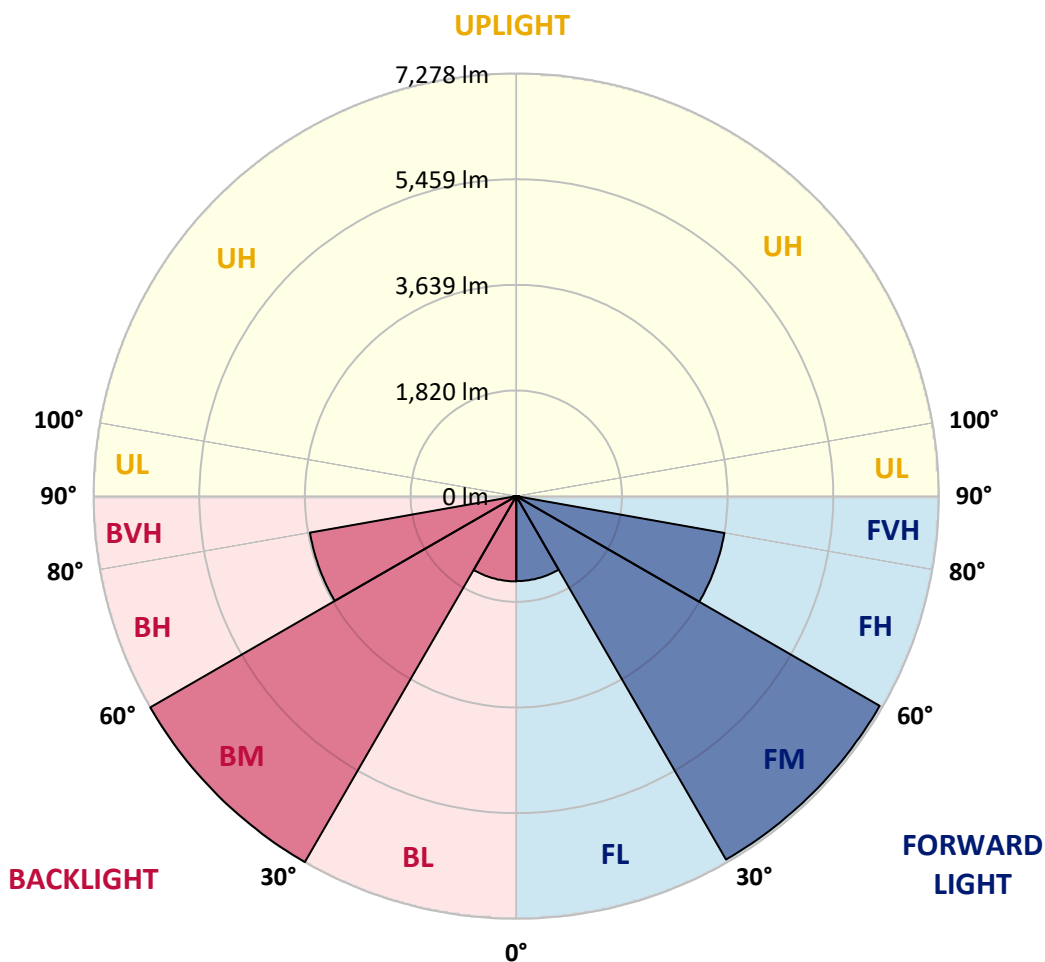
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1463.2	5.9			
FM (30°-60°)	7226.4	29.1			
FH (60°-80°)	3641.1	14.7			G2/5000
FVH (80°-90°)	53.9	0.2			G1/100
BL (0°-30°)	1468.9	5.9	B3/2500		
BM (30°-60°)	7278.5	29.4	B4/8500		
BH (60°-80°)	3609.7	14.6	B4/5000		G2/5000
BVH (80°-90°)	51.2	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°	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7
2.5°	2868.6	2874.3	2925.5	2905.6	2922.6	2891.4	2914.1	2962.4	2905.6	2948.2	2962.4
5°	2899.9	2908.4	2908.4	2928.3	2939.7	2934.0	2948.2	2928.3	2982.3	2959.6	2993.7
7.5°	3013.6	2999.4	2976.7	2993.7	2996.6	3010.8	3025.0	3050.6	3042.0	3022.1	3056.3
10°	3033.5	3022.1	3056.3	3059.1	3044.9	3033.5	3047.7	3047.7	3073.3	3079.0	3079.0
12.5°	3067.6	3079.0	3076.2	3098.9	3101.8	3093.2	3116.0	3158.6	3147.2	3155.8	3135.9
15°	3198.4	3184.2	3181.4	3204.1	3241.1	3187.0	3226.8	3224.0	3212.6	3229.7	3184.2
17.5°	3312.1	3266.6	3286.6	3323.5	3309.3	3320.7	3371.8	3326.4	3337.7	3317.8	3303.6
20°	3411.6	3374.7	3377.5	3391.7	3391.7	3425.9	3445.8	3428.7	3417.3	3414.5	3420.2
22.5°	3522.5	3479.9	3482.7	3542.4	3562.3	3551.0	3536.7	3565.2	3570.9	3548.1	3573.7
25°	3605.0	3650.5	3664.7	3693.1	3650.5	3681.7	3670.4	3724.4	3758.5	3713.0	3744.3
27.5°	3821.0	3801.1	3838.1	3835.3	3869.4	3838.1	3858.0	3875.1	3889.3	3892.1	3877.9
30°	4014.4	4022.9	3985.9	4085.4	4005.8	4057.0	4091.1	4099.7	4116.7	4116.7	4074.1
32.5°	4219.1	4202.0	4261.7	4239.0	4224.8	4264.6	4227.6	4344.2	4275.9	4315.7	4267.4
35°	4449.4	4449.4	4472.1	4534.6	4449.4	4423.8	4492.0	4540.3	4540.3	4469.3	4486.3
37.5°	4708.1	4685.3	4713.8	4793.4	4728.0	4642.7	4767.8	4787.7	4773.5	4753.6	4719.4
40°	4890.0	4884.3	4941.2	5046.4	4952.6	4935.5	4958.3	5012.3	5029.3	5049.2	5003.7
42.5°	5197.1	5222.7	5387.6	5362.0	5285.2	5225.5	5219.8	5421.7	5373.3	5322.2	5296.6
45°	5652.0	5629.2	5714.5	5717.3	5617.8	5487.1	5515.5	5700.3	5782.7	5669.0	5711.7
47.5°	6013.0	6024.4	6084.1	6206.3	5976.1	5839.6	5944.8	6243.3	6217.7	6175.1	6214.9
50°	6496.3	6547.5	6735.2	6692.5	6487.8	6320.1	6550.4	6831.8	6863.1	6706.7	6678.3
52.5°	7164.5	7244.1	7346.4	7380.5	7184.4	7124.7	7138.9	7488.6	7411.8	7261.1	7164.5
55°	7750.1	7787.1	7974.7	8256.2	8242.0	7954.8	8119.7	8250.5	7937.8	7627.9	7653.5
57.5°	8000.3	8017.4	8540.5	9103.4	9438.9	9504.3	9316.6	8876.0	8131.1	7534.0	7497.1
60°	7377.7	7539.7	8170.9	9441.7	10974.1	11730.4	10482.3	8947.0	7679.0	6954.1	6900.1
62.5°	5896.5	5905.0	6843.2	8770.8	11929.4	13911.0	10928.6	8278.9	6473.6	5652.0	5435.9
64°	4199.2	4278.8	5356.3	7764.3	11730.4	14798.0	10874.6	7406.1	5336.4	4170.7	4020.1
65°	3013.6	3124.5	4165.0	6740.8	11264.1	14692.8	10712.6	6655.5	4315.7	3184.2	3030.7
67.5°	1108.8	1154.3	1634.7	3371.8	8088.4	12520.7	8489.3	3659.0	1896.3	1350.4	1214.0
70°	514.6	517.4	605.6	1114.5	3536.7	8372.7	4051.3	1373.2	713.6	565.8	526.0
72.5°	378.1	386.7	423.6	514.6	1040.6	3545.3	1330.5	562.9	417.9	369.6	361.1
75°	307.0	312.7	324.1	372.4	480.5	949.6	540.2	389.5	332.6	298.5	287.1
77.5°	236.0	236.0	261.6	284.3	318.4	443.5	358.2	309.9	270.1	236.0	227.4
80°	170.6	173.4	204.7	221.8	216.1	292.8	258.7	255.9	221.8	184.8	170.6
82.5°	99.5	108.0	147.8	159.2	153.5	173.4	187.6	199.0	173.4	127.9	116.6
85°	56.9	59.7	85.3	88.1	88.1	82.4	108.0	119.4	116.6	79.6	71.1
87.5°	17.1	17.1	22.7	22.7	25.6	28.4	42.6	51.2	56.9	39.8	37.0
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°	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7	2902.7
2.5°	2948.2	2905.6	2908.4	2919.8	2882.8	2897.1	2939.7	2908.4	2899.9	2882.8	2874.3
5°	2934.0	2979.5	2962.4	2968.1	2959.6	2919.8	2914.1	2939.7	2953.9	2928.3	2979.5
7.5°	3033.5	3013.6	2990.9	2999.4	2979.5	3013.6	3036.4	2985.2	3010.8	2996.6	2968.1
10°	3090.4	3053.4	3070.5	3064.8	3050.6	3084.7	3062.0	3056.3	3033.5	3002.2	3047.7
12.5°	3110.3	3152.9	3181.4	3133.0	3141.6	3124.5	3110.3	3110.3	3084.7	3076.2	3084.7
15°	3198.4	3235.4	3224.0	3261.0	3212.6	3229.7	3246.7	3204.1	3226.8	3164.3	3212.6
17.5°	3360.5	3329.2	3369.0	3320.7	3337.7	3371.8	3317.8	3317.8	3334.9	3300.8	3258.1
20°	3462.8	3448.6	3434.4	3437.2	3408.8	3440.1	3423.0	3414.5	3388.9	3400.3	3423.0
22.5°	3559.5	3539.6	3545.3	3553.8	3573.7	3559.5	3551.0	3559.5	3496.9	3553.8	3474.2
25°	3678.9	3732.9	3715.8	3752.8	3695.9	3732.9	3730.1	3676.0	3710.2	3687.4	3670.4
27.5°	3877.9	3849.5	3875.1	3829.6	3869.4	3872.2	3838.1	3929.1	3889.3	3883.6	3872.2
30°	4133.8	4113.9	4096.8	4071.2	4102.5	4076.9	4105.3	4113.9	4076.9	4048.5	3994.5
32.5°	4278.8	4332.8	4352.7	4290.1	4293.0	4307.2	4281.6	4256.0	4278.8	4287.3	4278.8
35°	4483.5	4534.6	4546.0	4497.7	4472.1	4543.2	4492.0	4577.3	4503.4	4506.2	4429.5
37.5°	4722.3	4736.5	4833.2	4779.1	4756.4	4722.3	4816.1	4804.7	4821.8	4685.3	4753.6
40°	4992.4	5043.5	5097.6	4961.1	4958.3	4989.5	4983.8	5049.2	5018.0	4998.1	4949.7
42.5°	5288.0	5396.1	5404.6	5313.6	5256.8	5251.1	5279.5	5424.5	5427.4	5296.6	5239.7
45°	5680.4	5799.8	5768.5	5592.3	5529.7	5521.2	5660.5	5723.0	5777.1	5725.9	5677.5
47.5°	6169.4	6249.0	6226.3	6064.2	5862.3	5919.2	6055.7	6251.8	6195.0	6126.7	6069.9
50°	6692.5	6786.3	6738.0	6575.9	6382.6	6382.6	6550.4	6800.5	6783.5	6649.9	6598.7
52.5°	7272.5	7409.0	7519.8	7289.5	7127.5	7153.1	7417.5	7508.5	7465.8	7372.0	7329.3
55°	7704.6	7966.2	8193.6	8205.0	8213.5	8210.7	8278.9	8369.9	8065.7	7915.0	7761.5
57.5°	7599.4	8094.1	8873.1	9401.9	9558.3	9640.7	9618.0	9197.2	8477.9	7983.2	8034.4
60°	6848.9	7656.3	8912.9	10610.2	11747.4	11633.7	11218.6	9555.4	8250.5	7414.6	7309.4
62.5°	5464.3	6436.6	8244.8	10951.4	14084.4	14050.3	11878.2	8728.1	6874.5	5816.9	5751.5
64°	4116.7	5140.2	7354.9	10863.2	14903.2	14937.3	11710.5	7710.3	5379.0	4116.7	4017.2
65°	3150.1	4099.7	6482.1	10681.3	14726.9	14746.8	11244.2	6658.4	4088.3	2922.6	2814.6
67.5°	1253.8	1745.6	3516.8	8099.8	12645.8	12591.8	8023.1	3221.2	1563.7	1017.8	997.9
70°	534.5	665.3	1233.9	3838.1	8466.6	8310.2	3454.3	1046.2	580.0	486.2	483.3
72.5°	366.8	406.6	528.8	1185.5	3519.7	3437.2	983.7	486.2	395.2	363.9	363.9
75°	295.7	324.1	383.8	497.5	932.5	898.4	463.4	358.2	315.6	292.8	290.0
77.5°	230.3	258.7	301.4	344.0	426.5	423.6	309.9	270.1	244.5	227.4	221.8
80°	182.0	210.4	238.8	244.5	278.6	272.9	210.4	213.2	199.0	164.9	162.1
82.5°	125.1	170.6	190.5	173.4	164.9	164.9	150.7	150.7	139.3	102.3	93.8
85°	76.8	113.7	119.4	102.3	76.8	76.8	82.4	79.6	73.9	54.0	51.2
87.5°	39.8	54.0	48.3	39.8	25.6	25.6	22.7	17.1	17.1	14.2	14.2
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)