

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: P479078

Luminaire Tested: **IFLD-L-SA7A-827-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479078  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-827-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

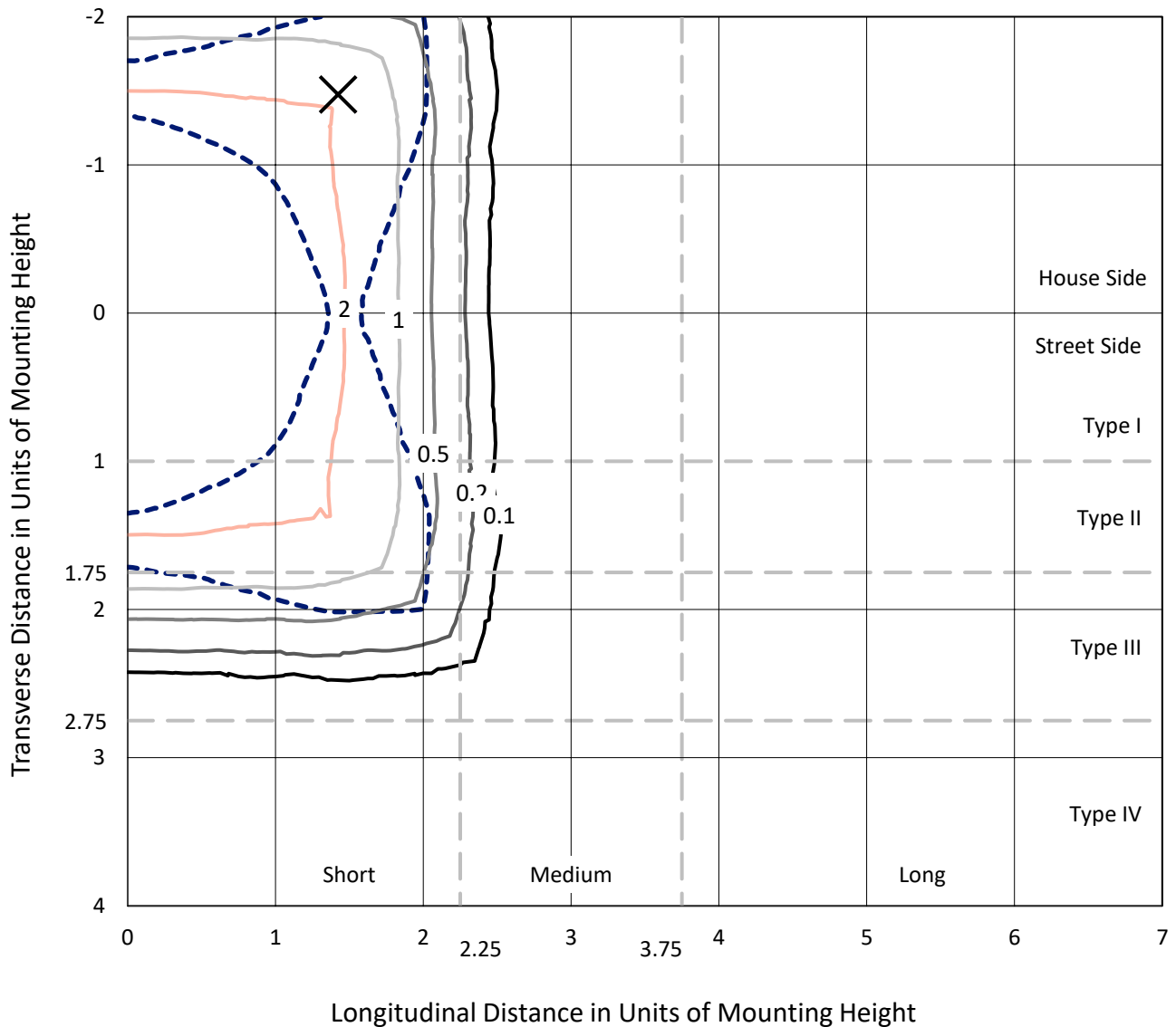
Lumens per Lamp: N/A  
Luminaire Lumens: 22948.6 lumens  
Efficiency: N/A  
Efficacy: 105.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 217.6  
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

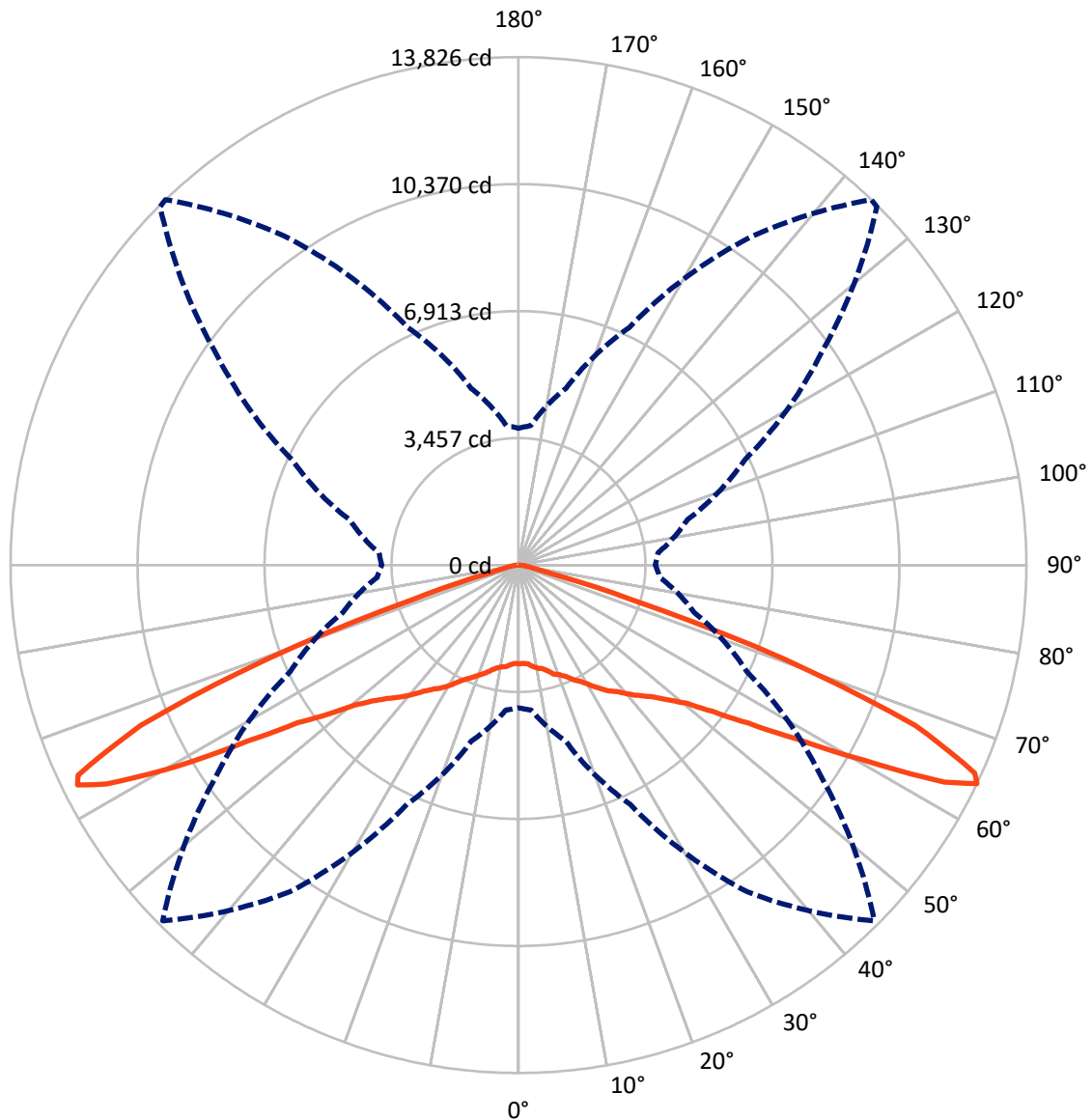
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 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	11485.2	0.0	11485.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11463.4	0.0	11463.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22948.6	0.0	22948.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	264.0	1.2
10°-20°	850.9	3.7
20°-30°	1599.1	7.0
30°-40°	2637.2	11.5
40°-50°	4124.5	18.0
50°-60°	6664.1	29.0
60°-70°	6000.6	26.1
70°-80°	710.8	3.1
80°-90°	97.3	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°	22948.6	100.0
0°-180°	22948.6	100.0

**Coefficient of Utilization**



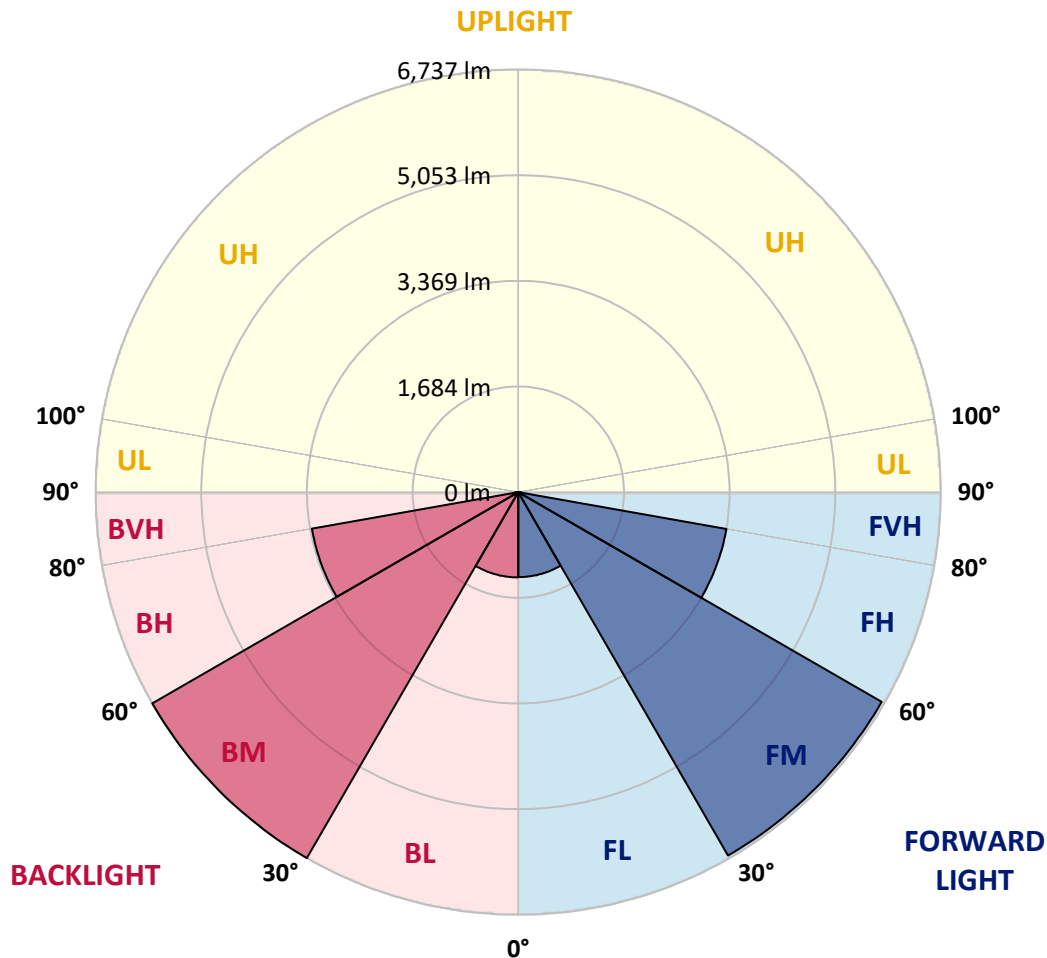
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.4	5.9			
FM (30°-60°)	6688.8	29.1			
FH (60°-80°)	3370.3	14.7			G2/5000
FVH (80°-90°)	49.9	0.2			G1/100
BL (0°-30°)	1359.6	5.9	B3/2500		
BM (30°-60°)	6737.1	29.4	B4/8500		
BH (60°-80°)	3341.2	14.6	B4/5000		G2/5000
BVH (80°-90°)	47.4	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°	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8
2.5°	2655.2	2660.5	2707.9	2689.4	2705.2	2676.3	2697.3	2742.1	2689.4	2728.9	2742.1
5°	2684.2	2692.1	2692.1	2710.5	2721.0	2715.8	2728.9	2710.5	2760.5	2739.4	2771.0
7.5°	2789.4	2776.3	2755.2	2771.0	2773.6	2786.8	2800.0	2823.6	2815.8	2797.3	2828.9
10°	2807.9	2797.3	2828.9	2831.5	2818.4	2807.9	2821.0	2821.0	2844.7	2850.0	2850.0
12.5°	2839.4	2850.0	2847.3	2868.4	2871.0	2863.1	2884.2	2923.6	2913.1	2921.0	2902.6
15°	2960.5	2947.3	2944.7	2965.8	3000.0	2950.0	2986.8	2984.2	2973.6	2989.4	2947.3
17.5°	3065.7	3023.6	3042.1	3076.3	3063.1	3073.6	3121.0	3078.9	3089.4	3071.0	3057.9
20°	3157.9	3123.6	3126.3	3139.4	3139.4	3171.0	3189.4	3173.6	3163.1	3160.5	3165.7
22.5°	3260.5	3221.0	3223.6	3278.9	3297.3	3286.8	3273.6	3300.0	3305.2	3284.2	3307.9
25°	3336.8	3378.9	3392.1	3418.4	3378.9	3407.8	3397.3	3447.3	3478.9	3436.8	3465.7
27.5°	3536.8	3518.4	3552.6	3550.0	3581.5	3552.6	3571.0	3586.8	3600.0	3602.6	3589.4
30°	3715.7	3723.6	3689.4	3781.5	3707.8	3755.2	3786.8	3794.7	3810.5	3810.5	3771.0
32.5°	3905.2	3889.4	3944.7	3923.6	3910.5	3947.3	3913.1	4021.0	3957.8	3994.7	3949.9
35°	4118.4	4118.4	4139.4	4197.3	4118.4	4094.7	4157.8	4202.6	4202.6	4136.8	4152.6
37.5°	4357.8	4336.8	4363.1	4436.8	4376.3	4297.3	4413.1	4431.5	4418.4	4399.9	4368.4
40°	4526.3	4521.0	4573.6	4671.0	4584.2	4568.4	4589.4	4639.4	4655.2	4673.6	4631.5
42.5°	4810.5	4834.1	4986.8	4963.1	4892.0	4836.8	4831.5	5018.4	4973.6	4926.3	4902.6
45°	5231.5	5210.5	5289.4	5292.0	5199.9	5078.9	5105.2	5276.2	5352.6	5247.3	5286.8
47.5°	5565.7	5576.2	5631.5	5744.7	5531.5	5405.2	5502.6	5778.9	5755.2	5715.7	5752.6
50°	6013.1	6060.4	6234.1	6194.7	6005.2	5849.9	6063.1	6323.6	6352.5	6207.8	6181.5
52.5°	6631.5	6705.2	6799.9	6831.5	6649.9	6594.6	6607.8	6931.5	6860.4	6721.0	6631.5
55°	7173.6	7207.8	7381.5	7642.0	7628.8	7363.1	7515.7	7636.7	7347.3	7060.4	7084.1
57.5°	7405.2	7421.0	7905.2	8426.2	8736.7	8797.3	8623.6	8215.7	7526.2	6973.6	6939.4
60°	6828.9	6978.9	7563.1	8739.4	10157.8	10857.8	9702.5	8281.5	7107.8	6436.8	6386.8
62.5°	5457.8	5465.7	6334.1	8118.3	11042.0	12876.1	10115.7	7663.1	5992.0	5231.5	5031.5
64°	3886.8	3960.5	4957.8	7186.7	10857.8	13697.2	10065.7	6855.2	4939.4	3860.5	3721.0
65°	2789.4	2892.1	3855.2	6239.4	10426.2	13599.8	9915.7	6160.4	3994.7	2947.3	2805.2
67.5°	1026.3	1068.4	1513.1	3121.0	7486.7	11589.3	7857.8	3386.8	1755.2	1250.0	1123.7
70°	476.3	478.9	560.5	1031.6	3273.6	7749.9	3750.0	1271.0	660.5	523.7	486.8
72.5°	350.0	357.9	392.1	476.3	963.1	3281.5	1231.6	521.0	386.8	342.1	334.2
75°	284.2	289.5	300.0	344.7	444.7	878.9	500.0	360.5	307.9	276.3	265.8
77.5°	218.4	218.4	242.1	263.2	294.7	410.5	331.6	286.8	250.0	218.4	210.5
80°	157.9	160.5	189.5	205.3	200.0	271.0	239.5	236.8	205.3	171.1	157.9
82.5°	92.1	100.0	136.8	147.4	142.1	160.5	173.7	184.2	160.5	118.4	107.9
85°	52.6	55.3	78.9	81.6	81.6	76.3	100.0	110.5	107.9	73.7	65.8
87.5°	15.8	15.8	21.1	21.1	23.7	26.3	39.5	47.4	52.6	36.8	34.2
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):**

	95°	105°	115°	125°	135°	136°	145°	155°	165°	175°	180°
0°	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8	2686.8
2.5°	2728.9	2689.4	2692.1	2702.6	2668.4	2681.5	2721.0	2692.1	2684.2	2668.4	2660.5
5°	2715.8	2757.9	2742.1	2747.3	2739.4	2702.6	2697.3	2721.0	2734.2	2710.5	2757.9
7.5°	2807.9	2789.4	2768.4	2776.3	2757.9	2789.4	2810.5	2763.1	2786.8	2773.6	2747.3
10°	2860.5	2826.3	2842.1	2836.8	2823.6	2855.2	2834.2	2828.9	2807.9	2778.9	2821.0
12.5°	2878.9	2918.4	2944.7	2900.0	2907.9	2892.1	2878.9	2878.9	2855.2	2847.3	2855.2
15°	2960.5	2994.7	2984.2	3018.4	2973.6	2989.4	3005.2	2965.8	2986.8	2928.9	2973.6
17.5°	3110.5	3081.5	3118.4	3073.6	3089.4	3121.0	3071.0	3071.0	3086.8	3055.2	3015.7
20°	3205.2	3192.1	3178.9	3181.5	3155.2	3184.2	3168.4	3160.5	3136.8	3147.3	3168.4
22.5°	3294.7	3276.3	3281.5	3289.4	3307.9	3294.7	3286.8	3294.7	3236.8	3289.4	3215.7
25°	3405.2	3455.2	3439.4	3473.6	3421.0	3455.2	3452.6	3402.6	3434.2	3413.1	3397.3
27.5°	3589.4	3563.1	3586.8	3544.7	3581.5	3584.2	3552.6	3636.8	3600.0	3594.7	3584.2
30°	3826.3	3807.8	3792.1	3768.4	3797.3	3773.6	3799.9	3807.8	3773.6	3747.3	3697.3
32.5°	3960.5	4010.5	4028.9	3971.0	3973.6	3986.8	3963.1	3939.4	3960.5	3968.4	3960.5
35°	4149.9	4197.3	4207.8	4163.1	4139.4	4205.2	4157.8	4236.8	4168.4	4171.0	4099.9
37.5°	4371.0	4384.2	4473.6	4423.6	4402.6	4371.0	4457.8	4447.3	4463.1	4336.8	4399.9
40°	4621.0	4668.4	4718.4	4592.0	4589.4	4618.4	4613.1	4673.6	4644.7	4626.3	4581.5
42.5°	4894.7	4994.7	5002.6	4918.4	4865.7	4860.5	4886.8	5021.0	5023.6	4902.6	4849.9
45°	5257.8	5368.4	5339.4	5176.2	5118.4	5110.5	5239.4	5297.3	5347.3	5299.9	5255.2
47.5°	5710.5	5784.1	5763.1	5613.1	5426.2	5478.9	5605.2	5786.8	5734.1	5671.0	5618.3
50°	6194.7	6281.5	6236.8	6086.8	5907.8	5907.8	6063.1	6294.7	6278.9	6155.2	6107.8
52.5°	6731.5	6857.8	6960.4	6747.3	6597.3	6621.0	6865.7	6949.9	6910.4	6823.6	6784.1
55°	7131.5	7373.6	7584.1	7594.6	7602.5	7599.9	7663.1	7747.3	7465.7	7326.2	7184.1
57.5°	7034.1	7492.0	8213.0	8702.5	8847.3	8923.6	8902.5	8513.0	7847.3	7389.4	7436.7
60°	6339.4	7086.7	8249.9	9820.9	10873.5	10768.3	10384.1	8844.6	7636.7	6863.1	6765.7
62.5°	5057.8	5957.8	7631.5	10136.7	13036.7	13005.1	10994.6	8078.8	6363.1	5384.1	5323.6
64°	3810.5	4757.8	6807.8	10055.1	13794.6	13826.1	10839.3	7136.7	4978.9	3810.5	3718.4
65°	2915.8	3794.7	5999.9	9886.7	13631.4	13649.8	10407.8	6163.1	3784.2	2705.2	2605.2
67.5°	1160.5	1615.8	3255.2	7497.3	11705.1	11655.1	7426.2	2981.5	1447.3	942.1	923.7
70°	494.7	615.8	1142.1	3552.6	7836.7	7692.0	3197.3	968.4	536.8	450.0	447.4
72.5°	339.5	376.3	489.5	1097.4	3257.9	3181.5	910.5	450.0	365.8	336.8	336.8
75°	273.7	300.0	355.3	460.5	863.1	831.6	428.9	331.6	292.1	271.0	268.4
77.5°	213.2	239.5	278.9	318.4	394.7	392.1	286.8	250.0	226.3	210.5	205.3
80°	168.4	194.7	221.0	226.3	257.9	252.6	194.7	197.4	184.2	152.6	150.0
82.5°	115.8	157.9	176.3	160.5	152.6	152.6	139.5	139.5	128.9	94.7	86.8
85°	71.1	105.3	110.5	94.7	71.1	71.1	76.3	73.7	68.4	50.0	47.4
87.5°	36.8	50.0	44.7	36.8	23.7	23.7	21.1	15.8	15.8	13.2	13.2
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)