

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: P479186

Luminaire Tested: **IFLD-S-SA6B-722-U-5MQ**

Issue Date: 02/26/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P479186  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-722-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ  
distribution lens  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

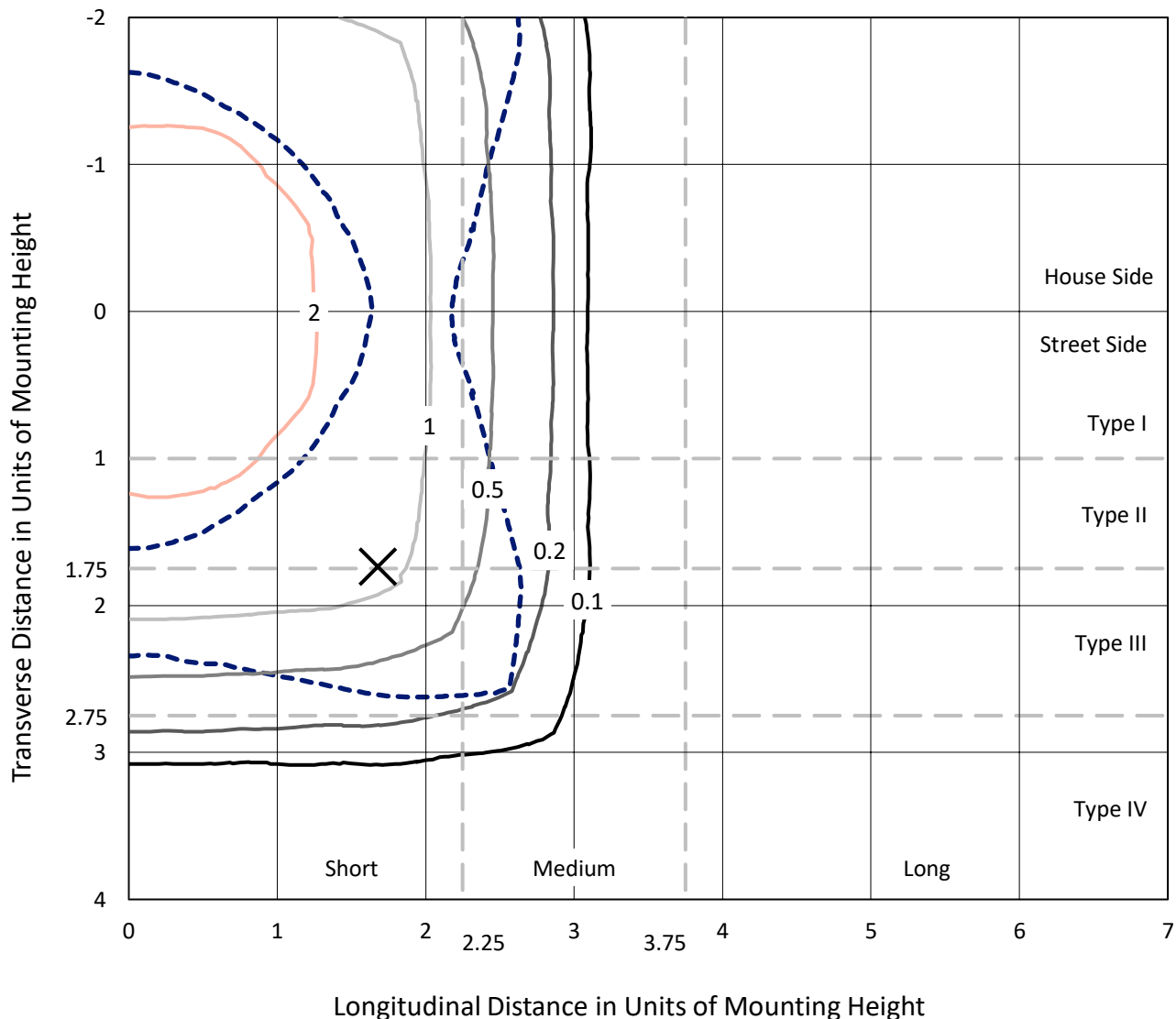
Lumens per Lamp: N/A  
Luminaire Lumens: 24818.8 lumens  
Efficiency: N/A  
Efficacy: 101.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 244.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

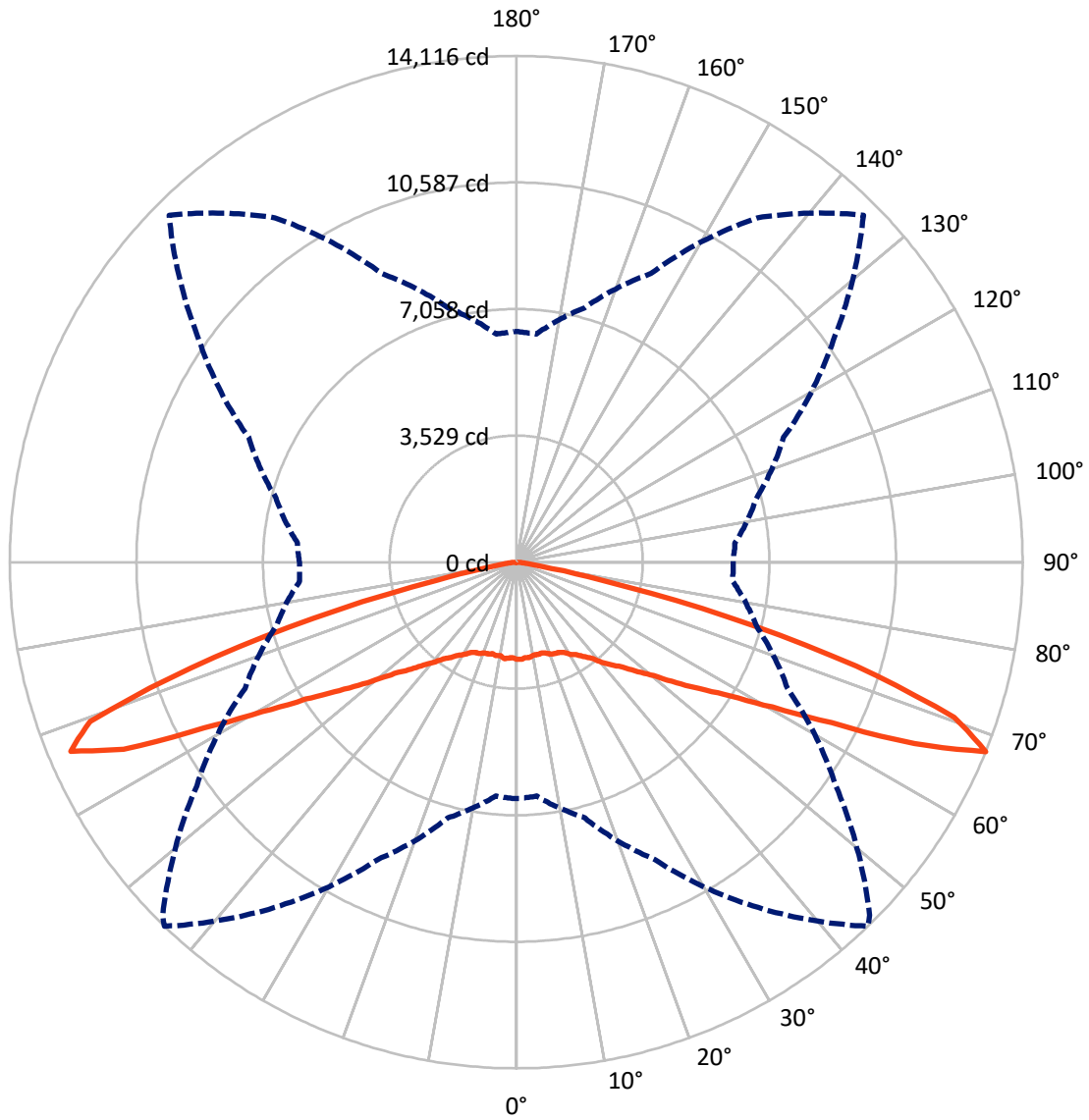
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	12377.6	0.0	12377.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	12441.2	0.0	12441.2
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	24818.8	0.0	24818.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.5	1.0
10°-20°	749.5	3.0
20°-30°	1274.5	5.1
30°-40°	2020.8	8.1
40°-50°	3295.2	13.3
50°-60°	5627.7	22.7
60°-70°	8559.6	34.5
70°-80°	2885.1	11.6
80°-90°	149.8	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°	24818.8	100.0
0°-180°	24818.8	100.0

**Coefficient of Utilization**

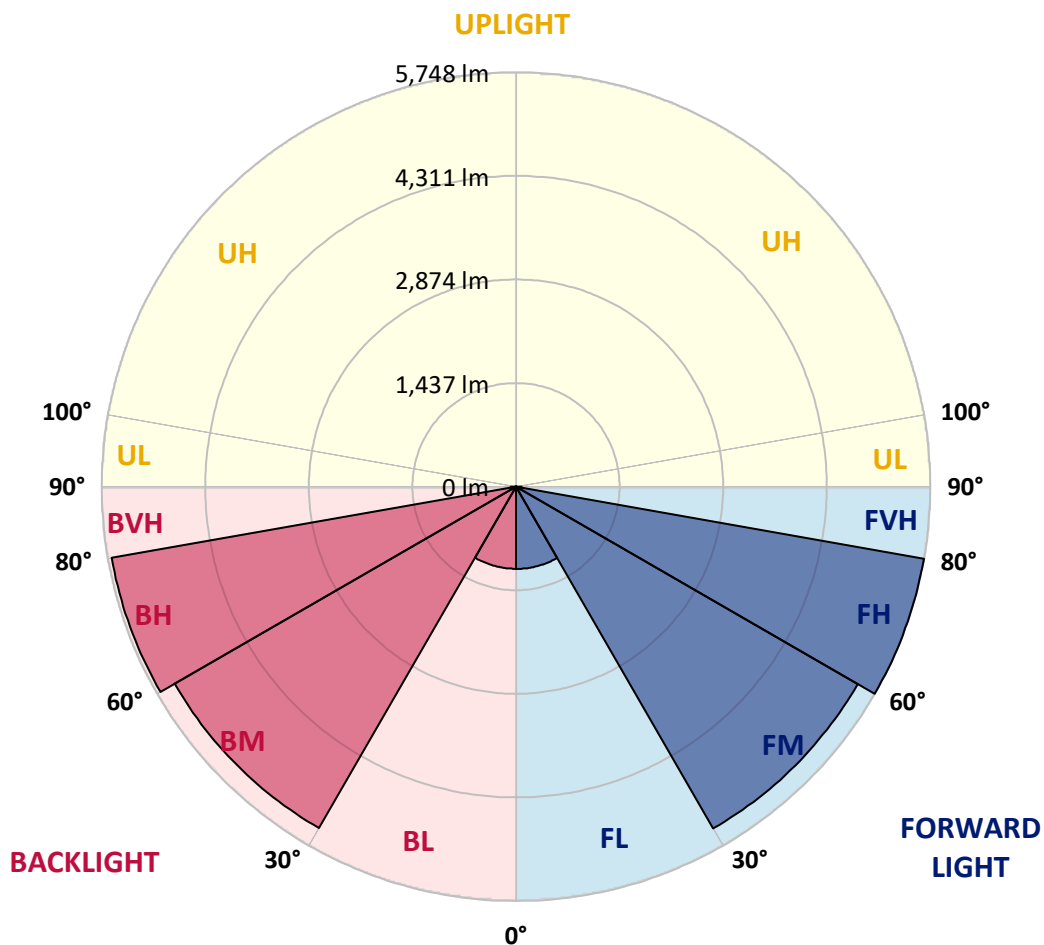


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.5	4.6			
FM (30°-60°)	5474.8	22.1			
FH (60°-80°)	5748.3	23.2			G3/7500
FVH (80°-90°)	76.6	0.3			G1/100
BL (0°-30°)	1139.1	4.6	B3/2500		
BM (30°-60°)	5468.9	22.0	B4/8500		
BH (60°-80°)	5696.5	23.0	B5		G3/7500
BVH (80°-90°)	73.2	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°	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0
2.5°	2648.7	2679.9	2702.5	2699.7	2708.2	2716.7	2705.4	2722.4	2711.0	2730.9	2742.2
5°	2699.7	2691.2	2694.0	2677.0	2716.7	2671.4	2671.4	2694.0	2722.4	2688.4	2708.2
7.5°	2668.5	2662.9	2648.7	2674.2	2682.7	2682.7	2705.4	2662.9	2711.0	2722.4	2725.2
10°	2634.5	2603.4	2645.9	2671.4	2677.0	2631.7	2651.5	2662.9	2648.7	2662.9	2671.4
12.5°	2606.2	2623.2	2623.2	2623.2	2614.7	2645.9	2665.7	2662.9	2634.5	2660.0	2614.7
15°	2603.4	2594.9	2620.4	2643.0	2628.9	2634.5	2643.0	2668.5	2614.7	2626.0	2626.0
17.5°	2600.5	2611.9	2620.4	2617.5	2665.7	2665.7	2657.2	2640.2	2682.7	2660.0	2628.9
20°	2611.9	2603.4	2626.0	2634.5	2668.5	2736.5	2711.0	2696.9	2674.2	2645.9	2645.9
22.5°	2626.0	2620.4	2651.5	2688.4	2753.5	2770.5	2767.7	2750.7	2711.0	2677.0	2671.4
25°	2677.0	2626.0	2660.0	2730.9	2753.5	2787.5	2810.2	2787.5	2733.7	2742.2	2691.2
27.5°	2753.5	2745.0	2790.3	2838.5	2818.7	2849.8	2830.0	2847.0	2849.8	2807.3	2756.4
30°	2844.2	2818.7	2847.0	2940.5	2949.0	2983.0	2949.0	2903.7	2917.8	2881.0	2855.5
32.5°	2974.5	2966.0	3019.8	3082.1	3093.5	3076.5	3059.5	3085.0	3025.5	2997.1	2951.8
35°	3059.5	3096.3	3161.4	3209.6	3246.4	3229.4	3237.9	3212.4	3226.6	3167.1	3147.3
37.5°	3311.6	3297.4	3311.6	3393.7	3402.2	3393.7	3402.2	3430.6	3410.7	3359.7	3308.8
40°	3549.5	3526.9	3560.9	3654.4	3648.7	3677.0	3620.4	3651.5	3651.5	3555.2	3535.4
42.5°	3728.0	3804.5	3844.2	3920.6	3949.0	3923.5	3912.2	3917.8	3980.1	3866.8	3824.3
45°	4096.3	4093.5	4212.4	4254.9	4175.6	4169.9	4147.3	4215.3	4257.8	4192.6	4175.6
47.5°	4495.7	4515.5	4583.5	4600.5	4648.7	4560.9	4560.9	4569.4	4719.5	4566.5	4487.2
50°	4855.5	4881.0	5017.0	5150.1	5059.4	4966.0	5002.8	5048.1	5130.3	4985.8	4917.8
52.5°	5291.7	5430.6	5521.2	5592.0	5657.2	5592.0	5507.0	5558.0	5719.5	5526.9	5441.9
55°	5920.6	6031.1	6116.1	6246.4	6300.2	6212.4	6203.9	6198.3	6288.9	6084.9	5968.8
57.5°	6623.2	6577.9	6713.8	6915.0	7110.4	7025.4	6999.9	7005.6	7028.3	6739.3	6651.5
60°	7495.7	7546.7	7708.2	7883.8	8090.6	8209.6	8042.4	7946.1	7965.9	7572.2	7436.2
62.5°	7994.3	8107.6	8473.0	9076.4	9492.8	9863.9	9889.4	9263.4	8844.1	8079.3	7501.4
65°	7753.5	7736.5	8424.9	9541.0	11118.9	12198.2	12036.7	10518.3	9053.8	7838.5	7062.3
67.5°	6594.8	6549.5	7382.4	9152.9	11759.1	14116.0	13931.9	10872.4	8345.5	6934.8	6056.6
70°	4249.3	4237.9	5141.6	6977.3	10498.5	12960.2	13028.2	9875.3	6793.1	5079.3	4209.6
72.5°	1543.9	1637.4	2161.5	3750.7	7130.3	9914.9	9957.4	7311.6	3906.5	2348.4	1730.9
75°	569.4	586.4	682.7	1218.1	3249.3	6087.8	6246.4	3546.7	1388.1	764.9	623.2
77.5°	328.6	331.4	365.4	453.3	963.2	2376.8	2473.1	1076.5	538.2	407.9	376.8
80°	223.8	221.0	257.8	294.6	385.3	674.2	716.7	450.4	339.9	283.3	238.0
82.5°	130.3	138.8	189.8	209.6	235.1	297.4	303.1	280.5	255.0	209.6	155.8
85°	79.3	65.2	104.8	116.1	136.0	133.1	133.1	153.0	164.3	147.3	87.8
87.5°	19.8	19.8	25.5	28.3	36.8	28.3	31.2	59.5	79.3	73.7	45.3
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°	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0	2711.0
2.5°	2716.7	2708.2	2713.9	2745.0	2725.2	2665.7	2679.9	2711.0	2685.5	2671.4	2668.5
5°	2705.4	2722.4	2702.5	2708.2	2728.0	2679.9	2688.4	2728.0	2711.0	2716.7	2685.5
7.5°	2708.2	2716.7	2699.7	2674.2	2674.2	2713.9	2691.2	2696.9	2671.4	2713.9	2657.2
10°	2691.2	2668.5	2648.7	2662.9	2657.2	2645.9	2637.4	2654.4	2628.9	2665.7	2626.0
12.5°	2640.2	2645.9	2640.2	2634.5	2645.9	2674.2	2628.9	2634.5	2594.9	2600.5	2620.4
15°	2620.4	2637.4	2631.7	2662.9	2677.0	2634.5	2668.5	2634.5	2603.4	2586.4	2617.5
17.5°	2628.9	2654.4	2645.9	2668.5	2643.0	2674.2	2679.9	2665.7	2628.9	2614.7	2628.9
20°	2637.4	2628.9	2640.2	2679.9	2716.7	2685.5	2685.5	2677.0	2643.0	2623.2	2623.2
22.5°	2657.2	2643.0	2660.0	2691.2	2702.5	2750.7	2708.2	2688.4	2631.7	2580.7	2628.9
25°	2696.9	2705.4	2716.7	2705.4	2767.7	2762.0	2756.4	2742.2	2654.4	2657.2	2648.7
27.5°	2773.3	2725.2	2739.4	2807.3	2815.8	2838.5	2810.2	2835.7	2742.2	2745.0	2688.4
30°	2866.8	2815.8	2861.2	2920.7	2917.8	2960.3	2946.2	2951.8	2886.7	2849.8	2773.3
32.5°	2968.8	2963.1	2991.5	3028.3	3042.5	3065.1	3062.3	3062.3	3022.6	2926.3	2940.5
35°	3082.1	3121.8	3155.8	3195.4	3201.1	3229.4	3189.8	3195.4	3155.8	3085.0	3107.6
37.5°	3305.9	3303.1	3339.9	3388.1	3393.7	3371.1	3402.2	3388.1	3334.3	3286.1	3249.3
40°	3566.5	3509.9	3543.9	3657.2	3665.7	3626.0	3623.2	3620.4	3580.7	3475.9	3453.2
42.5°	3793.2	3866.8	3861.2	3898.0	3872.5	3852.7	3923.5	3883.8	3852.7	3742.2	3722.3
45°	4085.0	4107.6	4181.3	4300.2	4178.4	4178.4	4226.6	4195.4	4178.4	4096.3	4019.8
47.5°	4447.6	4467.4	4614.7	4623.2	4543.9	4490.0	4640.2	4645.9	4575.0	4512.7	4419.2
50°	4872.5	4881.0	5014.1	5150.1	5062.3	4960.3	5113.3	5172.8	5014.1	4929.1	4813.0
52.5°	5339.9	5314.4	5424.9	5679.8	5594.9	5563.7	5728.0	5742.2	5526.9	5393.7	5424.9
55°	5878.1	5844.1	6144.4	6317.2	6263.4	6206.7	6280.4	6314.4	6141.6	5923.5	6000.0
57.5°	6575.0	6592.0	6742.2	6912.1	6999.9	7014.1	7048.1	7014.1	6838.5	6617.5	6546.7
60°	7271.9	7322.9	7614.7	7934.8	7963.1	8212.4	8167.1	7997.1	7747.8	7433.4	7447.5
62.5°	7529.7	7487.2	7957.4	8739.3	9405.0	9861.1	9660.0	9056.6	8478.7	7906.5	7948.9
65°	7011.3	7116.1	7756.3	8980.1	10424.8	12229.4	11158.6	9490.0	8322.9	7583.5	7501.4
67.5°	6042.4	6121.8	6934.8	8226.6	10790.3	13685.4	11725.1	8878.1	7339.9	6382.4	6433.4
70°	4209.6	4249.3	5045.3	6739.3	9784.6	12914.9	10577.8	6818.6	5067.9	4039.6	4096.3
72.5°	1694.0	1790.4	2314.4	4059.5	7223.7	9813.0	7121.8	3577.9	2102.0	1563.7	1419.3
75°	626.1	628.9	739.4	1396.6	3430.6	6167.1	3212.4	1150.1	671.4	549.6	524.1
77.5°	362.6	359.8	385.3	504.2	994.3	2407.9	912.2	450.4	365.4	328.6	314.4
80°	226.6	223.8	263.5	334.3	436.3	660.1	385.3	280.5	246.5	212.5	212.5
82.5°	144.5	147.3	206.8	246.5	266.3	291.8	223.8	198.3	184.1	121.8	119.0
85°	93.5	85.0	144.5	164.3	147.3	130.3	124.6	104.8	96.3	59.5	65.2
87.5°	42.5	45.3	73.7	82.2	53.8	31.2	31.2	22.7	22.7	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)