

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: P479231

Luminaire Tested: **IFLD-M-SA4C-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479231  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4C-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

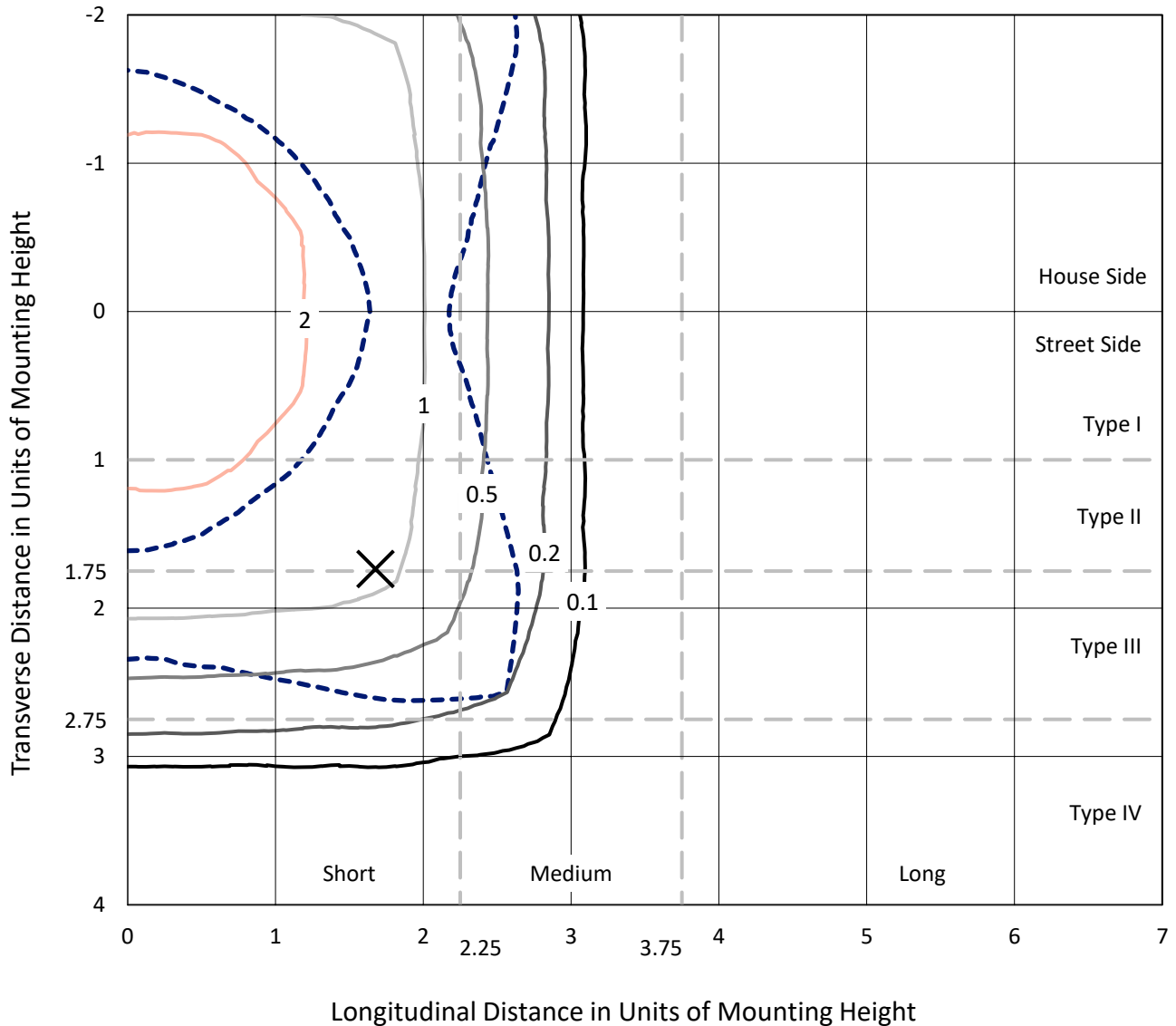
Lumens per Lamp: N/A  
Luminaire Lumens: 24001.1 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 218.1  
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

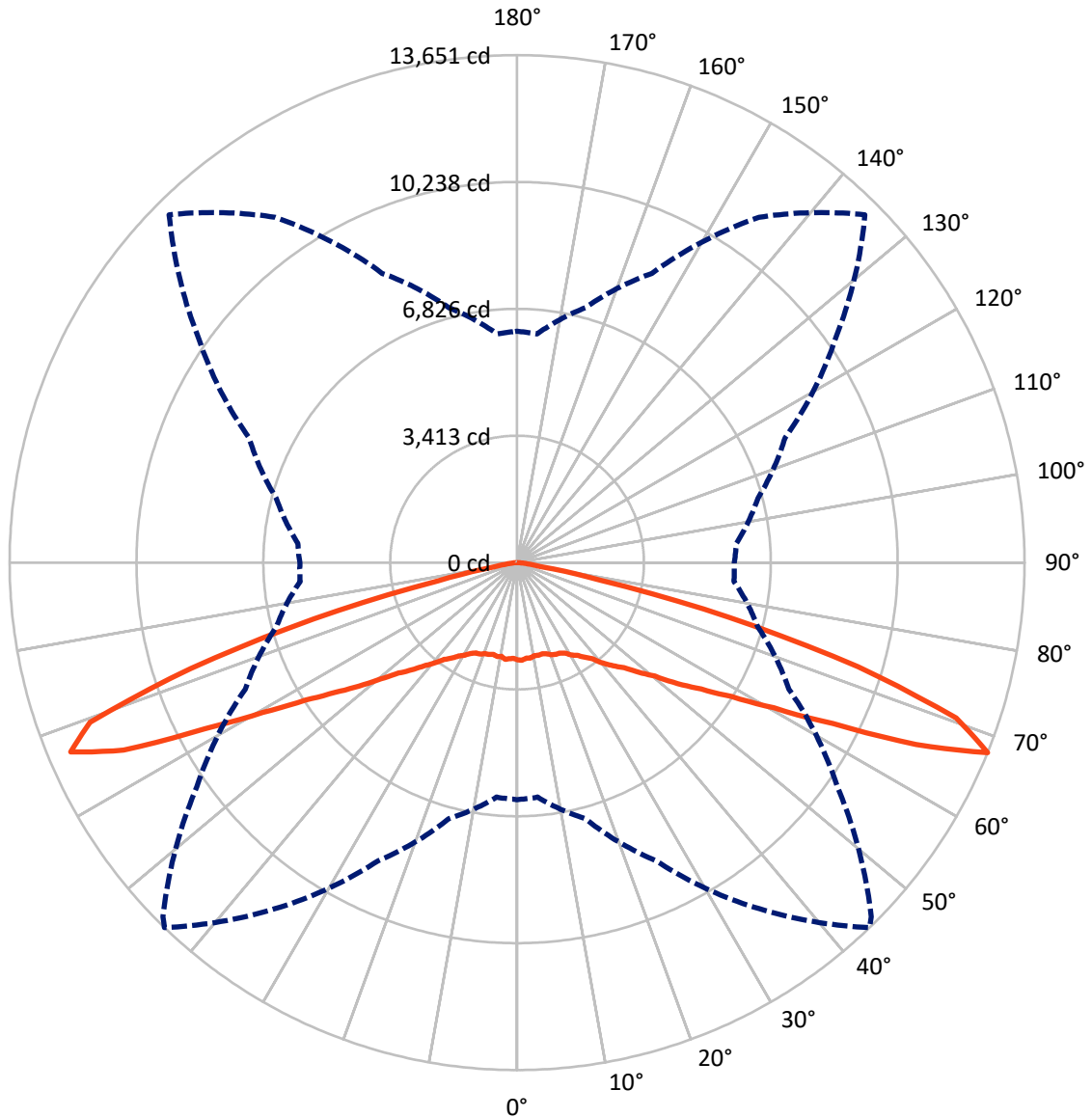
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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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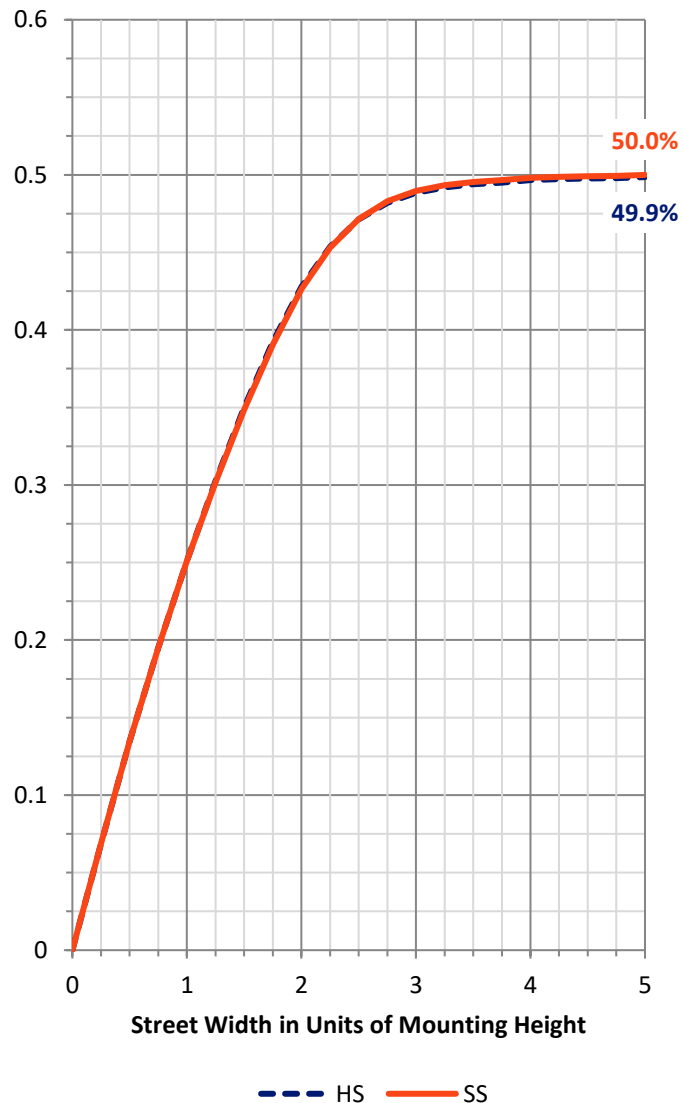
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11969.8	0.0	11969.8
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	12031.3	0.0	12031.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	24001.1	0.0	24001.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.1	1.0
10°-20°	724.8	3.0
20°-30°	1232.6	5.1
30°-40°	1954.3	8.1
40°-50°	3186.6	13.3
50°-60°	5442.3	22.7
60°-70°	8277.6	34.5
70°-80°	2790.1	11.6
80°-90°	144.9	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°	24001.1	100.0
0°-180°	24001.1	100.0

**Coefficient of Utilization**



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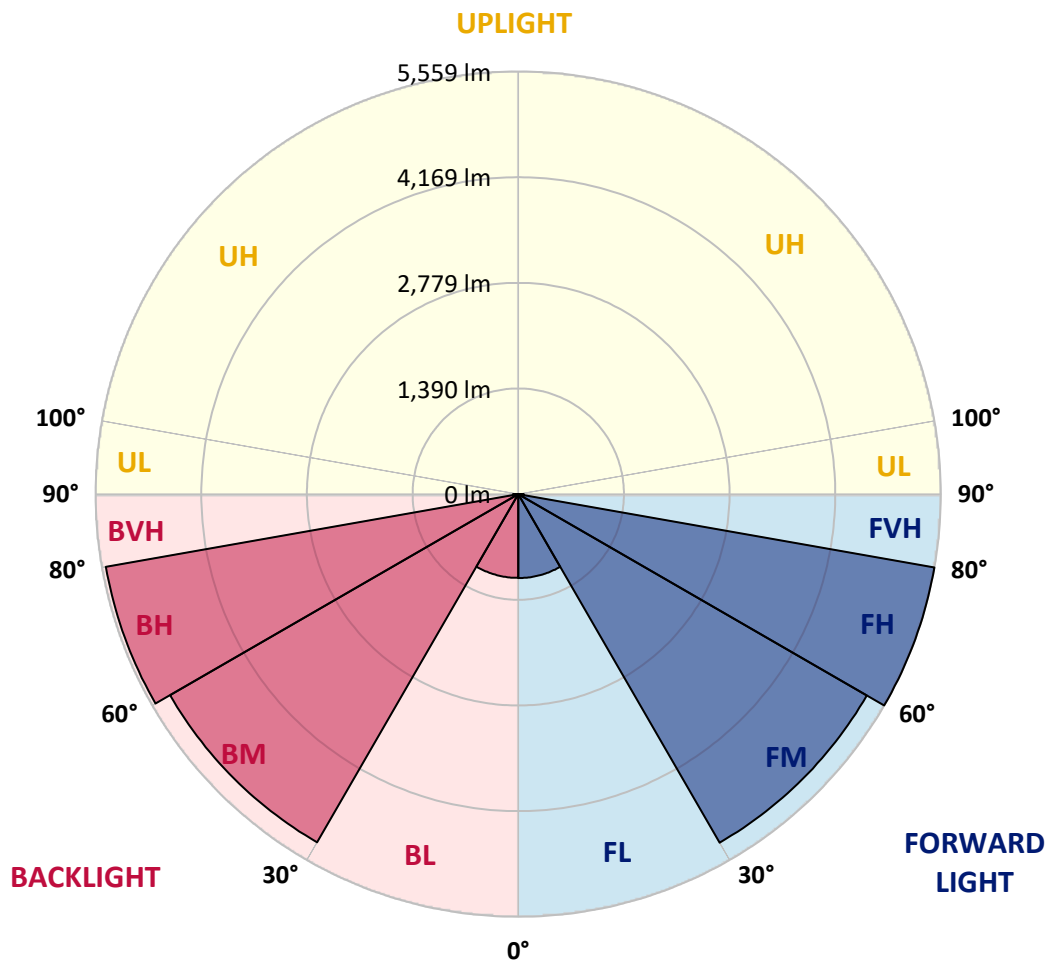
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1103.9	4.6			
FM (30°-60°)	5294.4	22.1			
FH (60°-80°)	5558.9	23.2			G3/7500
FVH (80°-90°)	74.1	0.3			G1/100
BL (0°-30°)	1101.6	4.6	B3/2500		
BM (30°-60°)	5288.7	22.0	B4/8500		
BH (60°-80°)	5508.8	23.0	B5		G3/7500
BVH (80°-90°)	70.8	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°	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7
2.5°	2561.4	2591.6	2613.5	2610.8	2619.0	2627.2	2616.2	2632.7	2621.7	2640.9	2651.8
5°	2610.8	2602.5	2605.3	2588.8	2627.2	2583.4	2583.4	2605.3	2632.7	2599.8	2619.0
7.5°	2580.6	2575.1	2561.4	2586.1	2594.3	2594.3	2616.2	2575.1	2621.7	2632.7	2635.4
10°	2547.7	2517.6	2558.7	2583.4	2588.8	2545.0	2564.2	2575.1	2561.4	2575.1	2583.4
12.5°	2520.3	2536.8	2536.8	2536.8	2528.6	2558.7	2577.9	2575.1	2547.7	2572.4	2528.6
15°	2517.6	2509.4	2534.0	2556.0	2542.3	2547.7	2556.0	2580.6	2528.6	2539.5	2539.5
17.5°	2514.9	2525.8	2534.0	2531.3	2577.9	2577.9	2569.7	2553.2	2594.3	2572.4	2542.3
20°	2525.8	2517.6	2539.5	2547.7	2580.6	2646.4	2621.7	2608.0	2586.1	2558.7	2558.7
22.5°	2539.5	2534.0	2564.2	2599.8	2662.8	2679.2	2676.5	2660.1	2621.7	2588.8	2583.4
25°	2588.8	2539.5	2572.4	2640.9	2662.8	2695.7	2717.6	2695.7	2643.6	2651.8	2602.5
27.5°	2662.8	2654.6	2698.4	2745.0	2725.8	2755.9	2736.8	2753.2	2755.9	2714.9	2665.5
30°	2750.5	2725.8	2753.2	2843.6	2851.8	2884.7	2851.8	2808.0	2821.7	2786.1	2761.4
32.5°	2876.5	2868.3	2920.3	2980.6	2991.5	2975.1	2958.7	2983.3	2925.8	2898.4	2854.6
35°	2958.7	2994.3	3057.3	3103.9	3139.5	3123.0	3131.3	3106.6	3120.3	3062.8	3043.6
37.5°	3202.5	3188.8	3202.5	3281.9	3290.1	3281.9	3290.1	3317.5	3298.4	3249.1	3199.7
40°	3432.6	3410.7	3443.6	3534.0	3528.5	3555.9	3501.1	3531.2	3531.2	3438.1	3418.9
42.5°	3605.2	3679.2	3717.5	3791.5	3818.9	3794.2	3783.3	3788.7	3849.0	3739.4	3698.3
45°	3961.3	3958.6	4073.6	4114.7	4038.0	4032.6	4010.6	4076.4	4117.5	4054.5	4038.0
47.5°	4347.6	4366.8	4432.5	4449.0	4495.5	4410.6	4410.6	4418.8	4564.0	4416.1	4339.4
50°	4695.5	4720.2	4851.7	4980.4	4892.8	4802.4	4838.0	4881.8	4961.2	4821.5	4755.8
52.5°	5117.4	5251.6	5339.3	5407.8	5470.8	5407.8	5325.6	5374.9	5531.1	5344.8	5262.6
55°	5725.6	5832.4	5914.6	6040.6	6092.7	6007.7	5999.5	5994.0	6081.7	5884.5	5772.1
57.5°	6405.0	6361.1	6492.6	6687.1	6876.2	6794.0	6769.3	6774.8	6796.7	6517.3	6432.4
60°	7248.7	7298.1	7454.2	7624.1	7824.0	7939.1	7777.5	7684.3	7703.5	7322.7	7191.2
62.5°	7730.9	7840.5	8193.9	8777.4	9180.1	9539.0	9563.6	8958.2	8552.7	7813.1	7254.2
65°	7498.0	7481.6	8147.3	9226.7	10752.6	11796.3	11640.2	10171.8	8755.5	7580.2	6829.6
67.5°	6377.6	6333.7	7139.2	8851.4	11371.7	13651.0	13472.9	10514.2	8070.6	6706.3	5857.1
70°	4109.3	4098.3	4972.2	6747.4	10152.6	12533.3	12599.0	9549.9	6569.3	4911.9	4070.9
72.5°	1493.0	1583.4	2090.2	3627.1	6895.3	9588.3	9629.4	7070.7	3777.8	2271.1	1673.8
75°	550.6	567.1	660.2	1178.0	3142.2	5887.2	6040.6	3429.9	1342.4	739.7	602.7
77.5°	317.8	320.5	353.4	438.3	931.4	2298.4	2391.6	1041.0	520.5	394.5	364.4
80°	216.4	213.7	249.3	284.9	372.6	652.0	693.1	435.6	328.7	274.0	230.1
82.5°	126.0	134.2	183.5	202.7	227.4	287.6	293.1	271.2	246.6	202.7	150.7
85°	76.7	63.0	101.4	112.3	131.5	128.8	128.8	147.9	158.9	142.5	84.9
87.5°	19.2	19.2	24.7	27.4	35.6	27.4	30.1	57.5	76.7	71.2	43.8
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°	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7	2621.7
2.5°	2627.2	2619.0	2624.4	2654.6	2635.4	2577.9	2591.6	2621.7	2597.1	2583.4	2580.6
5°	2616.2	2632.7	2613.5	2619.0	2638.1	2591.6	2599.8	2638.1	2621.7	2627.2	2597.1
7.5°	2619.0	2627.2	2610.8	2586.1	2586.1	2624.4	2602.5	2608.0	2583.4	2624.4	2569.7
10°	2602.5	2580.6	2561.4	2575.1	2569.7	2558.7	2550.5	2566.9	2542.3	2577.9	2539.5
12.5°	2553.2	2558.7	2553.2	2547.7	2558.7	2586.1	2542.3	2547.7	2509.4	2514.9	2534.0
15°	2534.0	2550.5	2545.0	2575.1	2588.8	2547.7	2580.6	2547.7	2517.6	2501.2	2531.3
17.5°	2542.3	2566.9	2558.7	2580.6	2556.0	2586.1	2591.6	2577.9	2542.3	2528.6	2542.3
20°	2550.5	2542.3	2553.2	2591.6	2627.2	2597.1	2597.1	2588.8	2556.0	2536.8	2536.8
22.5°	2569.7	2556.0	2572.4	2602.5	2613.5	2660.1	2619.0	2599.8	2545.0	2495.7	2542.3
25°	2608.0	2616.2	2627.2	2616.2	2676.5	2671.0	2665.5	2651.8	2566.9	2569.7	2561.4
27.5°	2682.0	2635.4	2649.1	2714.9	2723.1	2745.0	2717.6	2742.2	2651.8	2654.6	2599.8
30°	2772.4	2723.1	2766.9	2824.4	2821.7	2862.8	2849.1	2854.6	2791.6	2755.9	2682.0
32.5°	2871.0	2865.5	2892.9	2928.5	2942.2	2964.1	2961.4	2961.4	2923.1	2829.9	2843.6
35°	2980.6	3018.9	3051.8	3090.2	3095.6	3123.0	3084.7	3090.2	3051.8	2983.3	3005.2
37.5°	3197.0	3194.3	3229.9	3276.5	3281.9	3260.0	3290.1	3276.5	3224.4	3177.8	3142.2
40°	3449.0	3394.3	3427.1	3536.7	3544.9	3506.6	3503.8	3501.1	3462.7	3361.4	3339.5
42.5°	3668.2	3739.4	3734.0	3769.6	3744.9	3725.7	3794.2	3755.9	3725.7	3618.9	3599.7
45°	3950.4	3972.3	4043.5	4158.6	4040.8	4040.8	4087.3	4057.2	4040.8	3961.3	3887.4
47.5°	4301.0	4320.2	4462.7	4470.9	4394.2	4342.1	4487.3	4492.8	4424.3	4364.0	4273.6
50°	4712.0	4720.2	4848.9	4980.4	4895.5	4796.9	4944.8	5002.3	4848.9	4766.7	4654.4
52.5°	5164.0	5139.3	5246.2	5492.7	5410.5	5380.4	5539.3	5553.0	5344.8	5216.0	5246.2
55°	5684.5	5651.6	5942.0	6109.1	6057.1	6002.3	6073.5	6106.4	5939.3	5728.3	5802.3
57.5°	6358.4	6374.8	6520.0	6684.4	6769.3	6783.0	6815.9	6783.0	6613.2	6399.5	6331.0
60°	7032.3	7081.6	7363.8	7673.4	7700.8	7941.8	7898.0	7733.6	7492.6	7188.5	7202.2
62.5°	7281.6	7240.5	7695.3	8451.4	9095.2	9536.2	9341.7	8758.2	8199.3	7646.0	7687.1
65°	6780.3	6881.6	7500.8	8684.2	10081.4	11826.5	10790.9	9177.4	8048.7	7333.7	7254.2
67.5°	5843.4	5920.1	6706.3	7955.5	10434.8	13234.6	11338.8	8585.6	7098.1	6172.1	6221.4
70°	4070.9	4109.3	4879.1	6517.3	9462.3	12489.4	10229.3	6594.0	4901.0	3906.5	3961.3
72.5°	1638.2	1731.4	2238.2	3925.7	6985.7	9489.7	6887.1	3460.0	2032.7	1512.2	1372.5
75°	605.4	608.2	715.0	1350.6	3317.5	5963.9	3106.6	1112.2	649.3	531.5	506.8
77.5°	350.7	347.9	372.6	487.6	961.6	2328.6	882.1	435.6	353.4	317.8	304.1
80°	219.2	216.4	254.8	323.3	421.9	638.3	372.6	271.2	238.3	205.5	205.5
82.5°	139.7	142.5	200.0	238.3	257.5	282.2	216.4	191.8	178.1	117.8	115.1
85°	90.4	82.2	139.7	158.9	142.5	126.0	120.5	101.4	93.1	57.5	63.0
87.5°	41.1	43.8	71.2	79.4	52.1	30.1	30.1	21.9	21.9	13.7	13.7
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)