

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: P479290

Luminaire Tested: **IFLD-S-SA3D-735-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479290  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-735-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (48) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

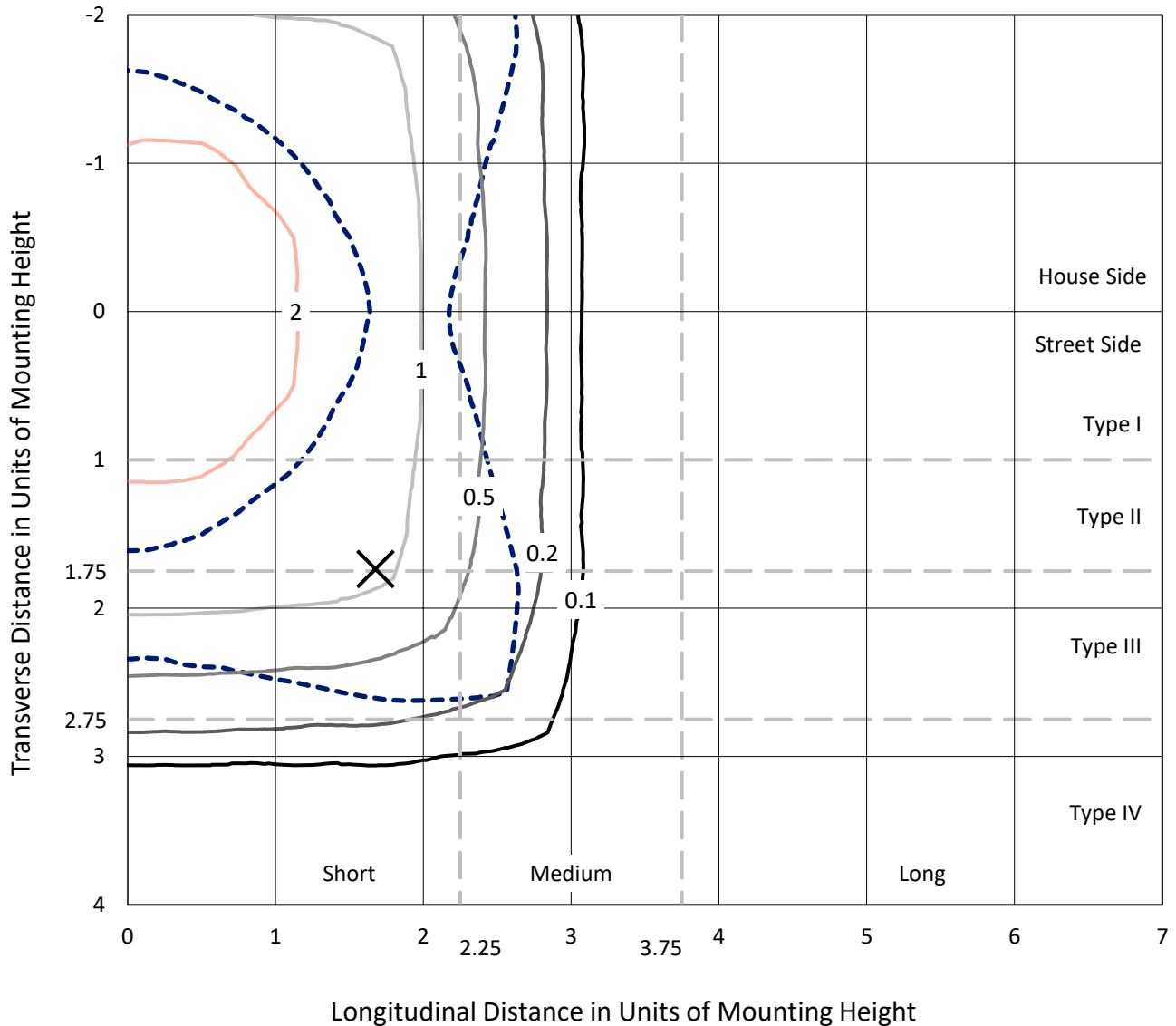
Lumens per Lamp: N/A  
Luminaire Lumens: 23204 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 184.1  
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

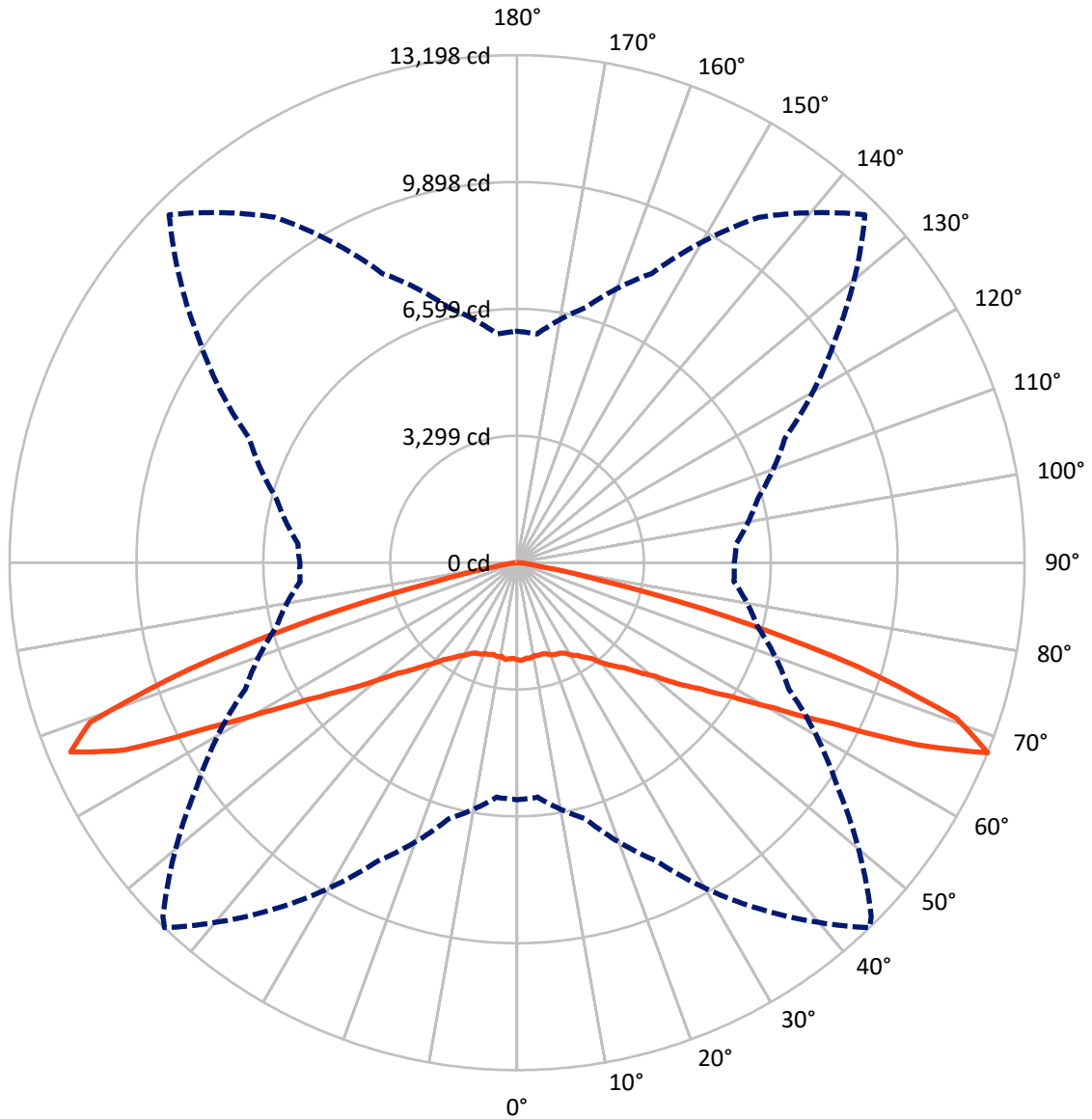
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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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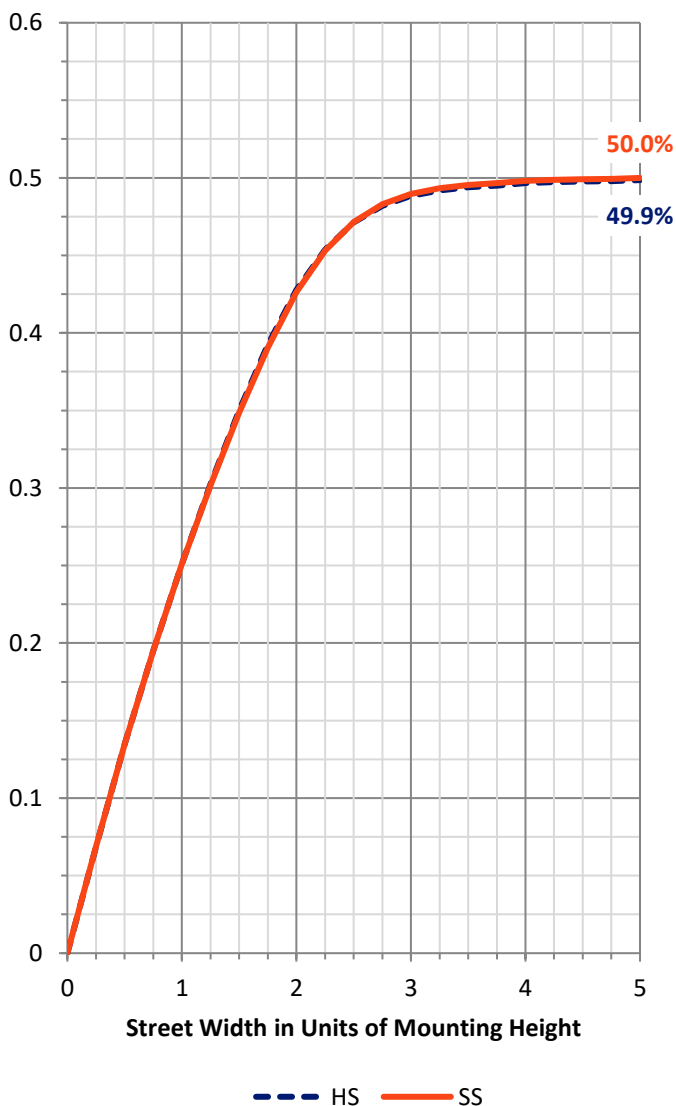
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11572.3	0.0	11572.3
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	11631.7	0.0	11631.7
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	23204.0	0.0	23204.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	1.0
10°-20°	700.7	3.0
20°-30°	1191.6	5.1
30°-40°	1889.3	8.1
40°-50°	3080.8	13.3
50°-60°	5261.5	22.7
60°-70°	8002.7	34.5
70°-80°	2697.4	11.6
80°-90°	140.0	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°	23204.0	100.0
0°-180°	23204.0	100.0

**Coefficient of Utilization**



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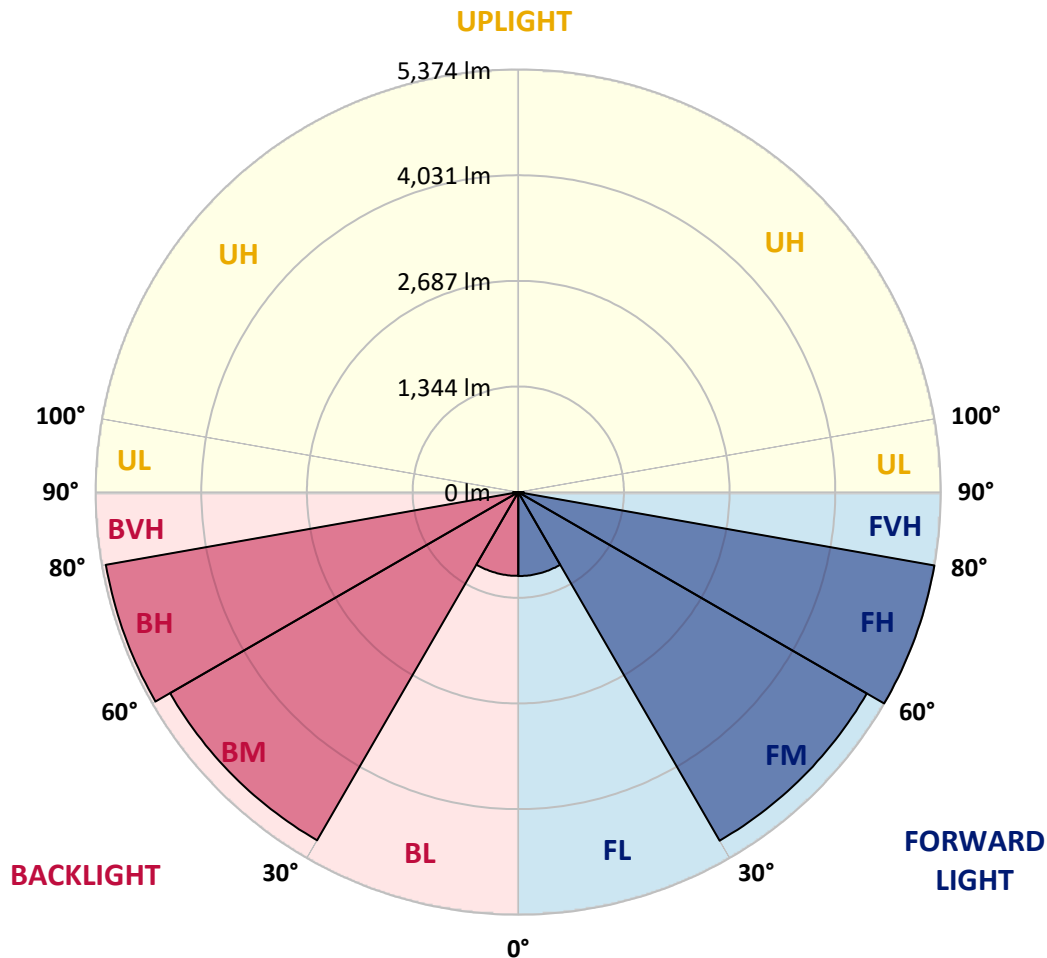
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1067.2	4.6			
FM (30°-60°)	5118.6	22.1			
FH (60°-80°)	5374.3	23.2			G3/7500
FVH (80°-90°)	71.6	0.3			G1/100
BL (0°-30°)	1065.0	4.6	B3/2500		
BM (30°-60°)	5113.1	22.0	B4/8500		
BH (60°-80°)	5325.8	23.0	B5		G3/7500
BVH (80°-90°)	68.4	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°	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6
2.5°	2476.4	2505.5	2526.7	2524.0	2532.0	2539.9	2529.3	2545.2	2534.6	2553.2	2563.8
5°	2524.0	2516.1	2518.7	2502.9	2539.9	2497.6	2497.6	2518.7	2545.2	2513.4	2532.0
7.5°	2494.9	2489.6	2476.4	2500.2	2508.2	2508.2	2529.3	2489.6	2534.6	2545.2	2547.9
10°	2463.1	2434.0	2473.7	2497.6	2502.9	2460.5	2479.0	2489.6	2476.4	2489.6	2497.6
12.5°	2436.6	2452.5	2452.5	2452.5	2444.6	2473.7	2492.3	2489.6	2463.1	2487.0	2444.6
15°	2434.0	2426.0	2449.9	2471.1	2457.8	2463.1	2471.1	2494.9	2444.6	2455.2	2455.2
17.5°	2431.3	2441.9	2449.9	2447.2	2492.3	2492.3	2484.3	2468.4	2508.2	2487.0	2457.8
20°	2441.9	2434.0	2455.2	2463.1	2494.9	2558.5	2534.6	2521.4	2500.2	2473.7	2473.7
22.5°	2455.2	2449.9	2479.0	2513.4	2574.4	2590.3	2587.6	2571.7	2534.6	2502.9	2497.6
25°	2502.9	2455.2	2487.0	2553.2	2574.4	2606.1	2627.3	2606.1	2555.8	2563.8	2516.1
27.5°	2574.4	2566.4	2608.8	2653.8	2635.3	2664.4	2645.9	2661.8	2664.4	2624.7	2577.0
30°	2659.1	2635.3	2661.8	2749.2	2757.1	2788.9	2757.1	2714.7	2728.0	2693.5	2669.7
32.5°	2780.9	2773.0	2823.3	2881.6	2892.2	2876.3	2860.4	2884.2	2828.6	2802.1	2759.8
35°	2860.4	2894.8	2955.8	3000.8	3035.2	3019.3	3027.3	3003.4	3016.7	2961.0	2942.5
37.5°	3096.1	3082.9	3096.1	3172.9	3180.9	3172.9	3180.9	3207.4	3188.8	3141.1	3093.5
40°	3318.6	3297.4	3329.2	3416.6	3411.3	3437.8	3384.8	3413.9	3413.9	3323.9	3305.4
42.5°	3485.5	3557.0	3594.0	3665.6	3692.0	3668.2	3657.6	3662.9	3721.2	3615.2	3575.5
45°	3829.8	3827.1	3938.4	3978.1	3903.9	3898.6	3877.4	3941.0	3980.7	3919.8	3903.9
47.5°	4203.2	4221.7	4285.3	4301.2	4346.2	4264.1	4264.1	4272.1	4412.4	4269.4	4195.3
50°	4539.6	4563.4	4690.5	4815.0	4730.3	4642.9	4677.3	4719.7	4796.5	4661.4	4597.8
52.5°	4947.4	5077.2	5162.0	5228.2	5289.1	5228.2	5148.7	5196.4	5347.4	5167.3	5087.8
55°	5535.4	5638.7	5718.2	5840.0	5890.3	5808.2	5800.3	5795.0	5879.7	5689.0	5580.4
57.5°	6192.2	6149.9	6277.0	6465.0	6647.8	6568.3	6544.5	6549.8	6571.0	6300.8	6218.7
60°	7008.0	7055.7	7206.6	7370.8	7564.2	7675.4	7519.2	7429.1	7447.6	7079.5	6952.4
62.5°	7474.1	7580.1	7921.7	8485.9	8875.2	9222.2	9246.0	8660.7	8268.7	7553.6	7013.3
65°	7249.0	7233.1	7876.7	8920.2	10395.4	11404.5	11253.6	9834.0	8464.7	7328.5	6602.8
67.5°	6165.8	6123.4	6902.0	8557.4	10994.0	13197.6	13025.4	10165.0	7802.5	6483.6	5662.5
70°	3972.8	3962.2	4807.1	6523.3	9815.4	12117.0	12180.6	9232.7	6351.2	4748.8	3935.7
72.5°	1443.4	1530.8	2020.8	3506.6	6666.3	9269.8	9309.6	6835.8	3652.3	2195.6	1618.2
75°	532.4	548.2	638.3	1138.9	3037.9	5691.7	5840.0	3315.9	1297.8	715.1	582.7
77.5°	307.2	309.9	341.7	423.8	900.5	2222.1	2312.2	1006.4	503.2	381.4	352.3
80°	209.2	206.6	241.0	275.4	360.2	630.3	670.1	421.1	317.8	264.9	222.5
82.5°	121.8	129.8	177.5	196.0	219.8	278.1	283.4	262.2	238.4	196.0	145.7
85°	74.2	60.9	98.0	108.6	127.1	124.5	124.5	143.0	153.6	137.7	82.1
87.5°	18.5	18.5	23.8	26.5	34.4	26.5	29.1	55.6	74.2	68.9	42.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6	2534.6
2.5°	2539.9	2532.0	2537.3	2566.4	2547.9	2492.3	2505.5	2534.6	2510.8	2497.6	2494.9
5°	2529.3	2545.2	2526.7	2532.0	2550.5	2505.5	2513.4	2550.5	2534.6	2539.9	2510.8
7.5°	2532.0	2539.9	2524.0	2500.2	2500.2	2537.3	2516.1	2521.4	2497.6	2537.3	2484.3
10°	2516.1	2494.9	2476.4	2489.6	2484.3	2473.7	2465.8	2481.7	2457.8	2492.3	2455.2
12.5°	2468.4	2473.7	2468.4	2463.1	2473.7	2500.2	2457.8	2463.1	2426.0	2431.3	2449.9
15°	2449.9	2465.8	2460.5	2489.6	2502.9	2463.1	2494.9	2463.1	2434.0	2418.1	2447.2
17.5°	2457.8	2481.7	2473.7	2494.9	2471.1	2500.2	2505.5	2492.3	2457.8	2444.6	2457.8
20°	2465.8	2457.8	2468.4	2505.5	2539.9	2510.8	2510.8	2502.9	2471.1	2452.5	2452.5
22.5°	2484.3	2471.1	2487.0	2516.1	2526.7	2571.7	2532.0	2513.4	2460.5	2412.8	2457.8
25°	2521.4	2529.3	2539.9	2529.3	2587.6	2582.3	2577.0	2563.8	2481.7	2484.3	2476.4
27.5°	2592.9	2547.9	2561.1	2624.7	2632.6	2653.8	2627.3	2651.2	2563.8	2566.4	2513.4
30°	2680.3	2632.6	2675.0	2730.6	2728.0	2767.7	2754.5	2759.8	2698.8	2664.4	2592.9
32.5°	2775.7	2770.4	2796.8	2831.3	2844.5	2865.7	2863.1	2863.1	2826.0	2735.9	2749.2
35°	2881.6	2918.7	2950.5	2987.5	2992.8	3019.3	2982.2	2987.5	2950.5	2884.2	2905.4
37.5°	3090.8	3088.2	3122.6	3167.6	3172.9	3151.7	3180.9	3167.6	3117.3	3072.3	3037.9
40°	3334.5	3281.5	3313.3	3419.2	3427.2	3390.1	3387.5	3384.8	3347.7	3249.7	3228.5
42.5°	3546.4	3615.2	3609.9	3644.4	3620.5	3602.0	3668.2	3631.1	3602.0	3498.7	3480.2
45°	3819.2	3840.4	3909.2	4020.5	3906.6	3906.6	3951.6	3922.5	3906.6	3829.8	3758.3
47.5°	4158.2	4176.7	4314.4	4322.4	4248.2	4197.9	4338.3	4343.6	4277.4	4219.1	4131.7
50°	4555.5	4563.4	4687.9	4815.0	4732.9	4637.6	4780.6	4836.2	4687.9	4608.4	4499.8
52.5°	4992.5	4968.6	5071.9	5310.3	5230.8	5201.7	5355.3	5368.6	5167.3	5042.8	5071.9
55°	5495.7	5463.9	5744.6	5906.2	5855.9	5802.9	5871.8	5903.6	5742.0	5538.1	5609.6
57.5°	6147.2	6163.1	6303.5	6462.4	6544.5	6557.7	6589.5	6557.7	6393.5	6186.9	6120.7
60°	6798.8	6846.4	7119.2	7418.5	7445.0	7678.1	7635.7	7476.8	7243.7	6949.7	6963.0
62.5°	7039.8	7000.0	7439.7	8170.7	8793.1	9219.5	9031.5	8467.3	7927.0	7392.0	7431.8
65°	6555.1	6653.1	7251.7	8395.8	9746.6	11433.7	10432.5	8872.5	7781.4	7090.1	7013.3
67.5°	5649.3	5723.5	6483.6	7691.3	10088.2	12795.0	10962.2	8300.5	6862.3	5967.1	6014.8
70°	3935.7	3972.8	4717.0	6300.8	9148.0	12074.6	9889.6	6375.0	4738.2	3776.8	3829.8
72.5°	1583.8	1673.9	2163.8	3795.3	6753.7	9174.5	6658.4	3345.1	1965.2	1462.0	1326.9
75°	585.3	588.0	691.3	1305.7	3207.4	5765.8	3003.4	1075.3	627.7	513.8	490.0
77.5°	339.0	336.4	360.2	471.4	929.6	2251.2	852.8	421.1	341.7	307.2	294.0
80°	211.9	209.2	246.3	312.5	407.9	617.1	360.2	262.2	230.4	198.6	198.6
82.5°	135.1	137.7	193.3	230.4	249.0	272.8	209.2	185.4	172.2	113.9	111.2
85°	87.4	79.5	135.1	153.6	137.7	121.8	116.5	98.0	90.0	55.6	60.9
87.5°	39.7	42.4	68.9	76.8	50.3	29.1	29.1	21.2	21.2	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)