

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: P478802

Luminaire Tested: **IFLD-M-SA4C-722-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478802
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-722-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

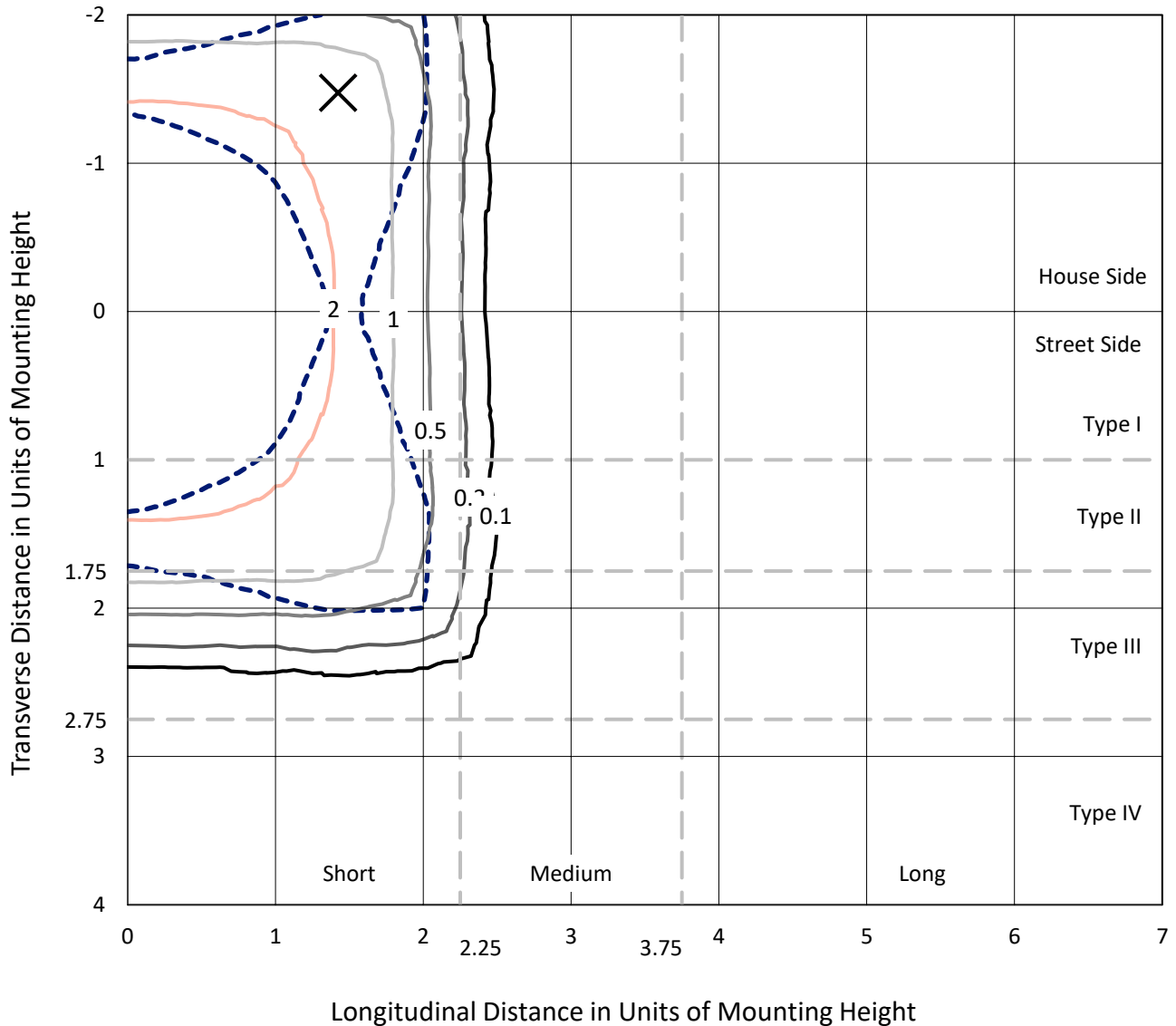
Lumens per Lamp: N/A
Luminaire Lumens: 20887.8 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

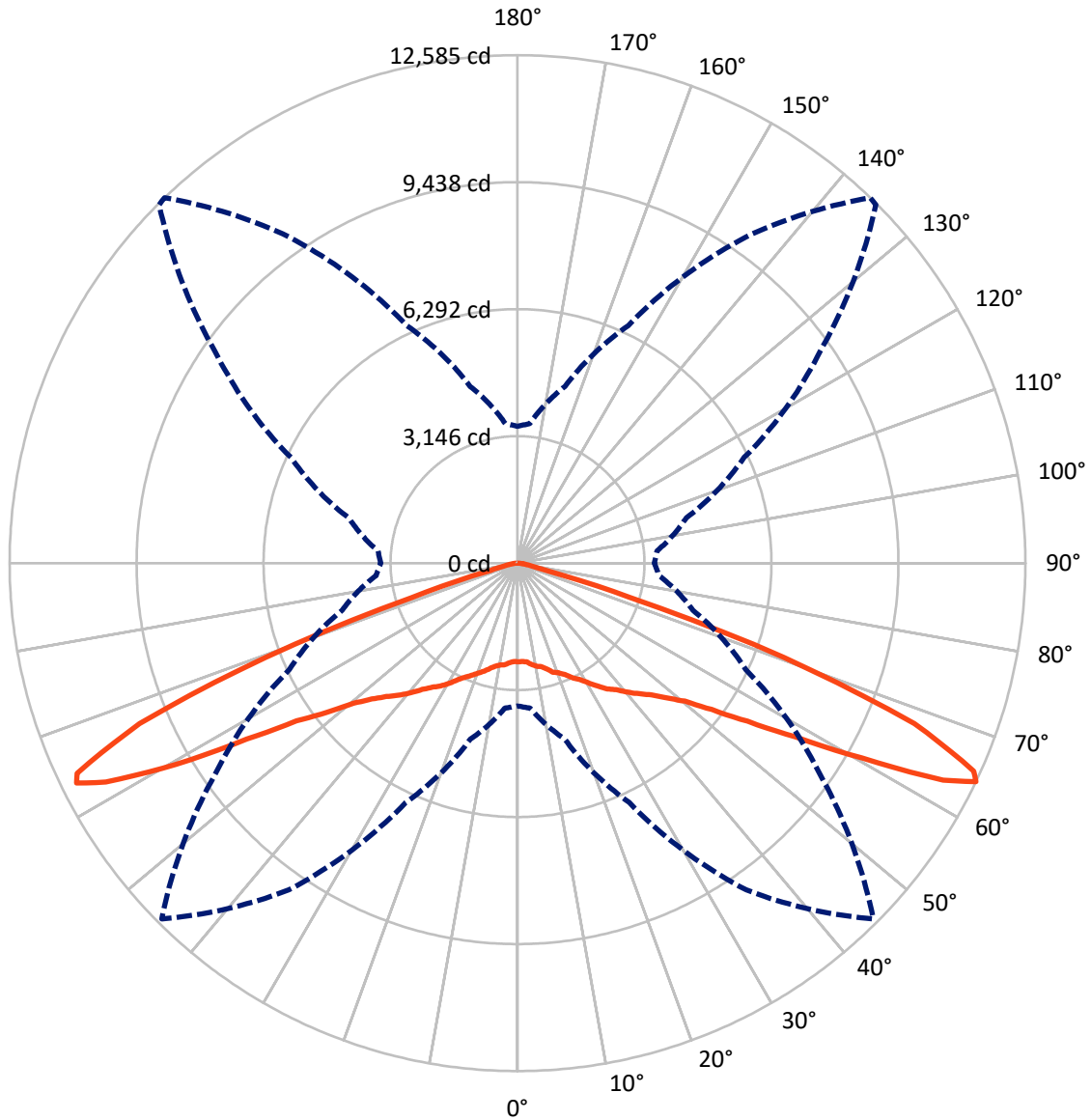
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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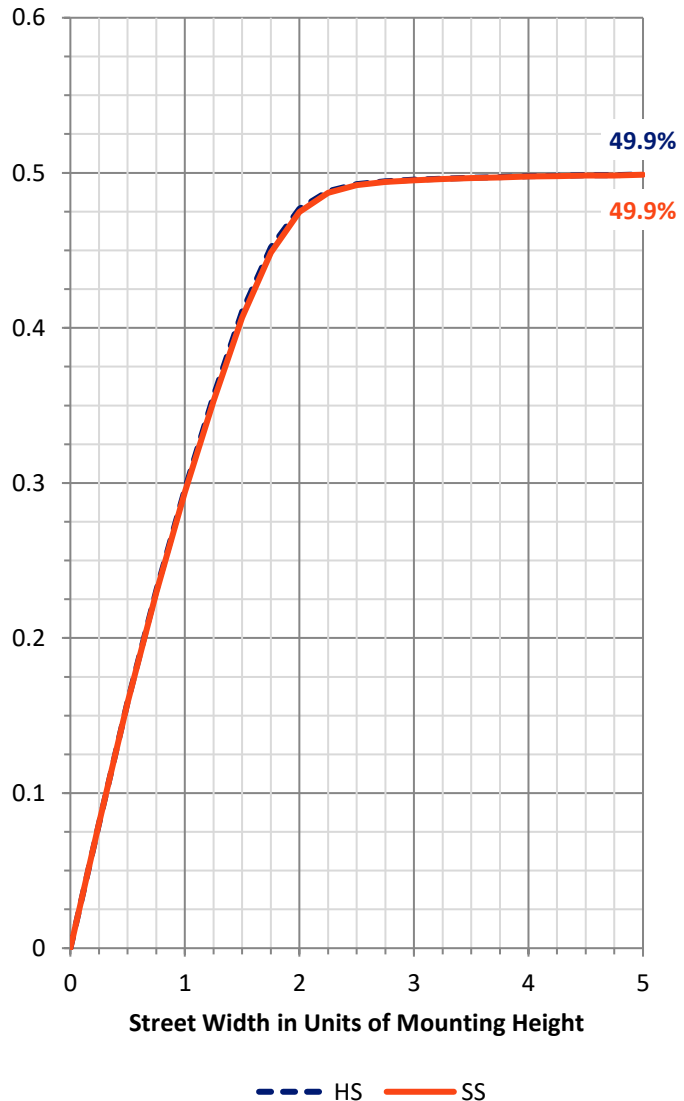
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10453.8	0.0	10453.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10433.9	0.0	10433.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	20887.8	0.0	20887.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.3	1.2
10°-20°	774.5	3.7
20°-30°	1455.5	7.0
30°-40°	2400.4	11.5
40°-50°	3754.1	18.0
50°-60°	6065.7	29.0
60°-70°	5461.8	26.1
70°-80°	647.0	3.1
80°-90°	88.6	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°	20887.8	100.0
0°-180°	20887.8	100.0

Coefficient of Utilization



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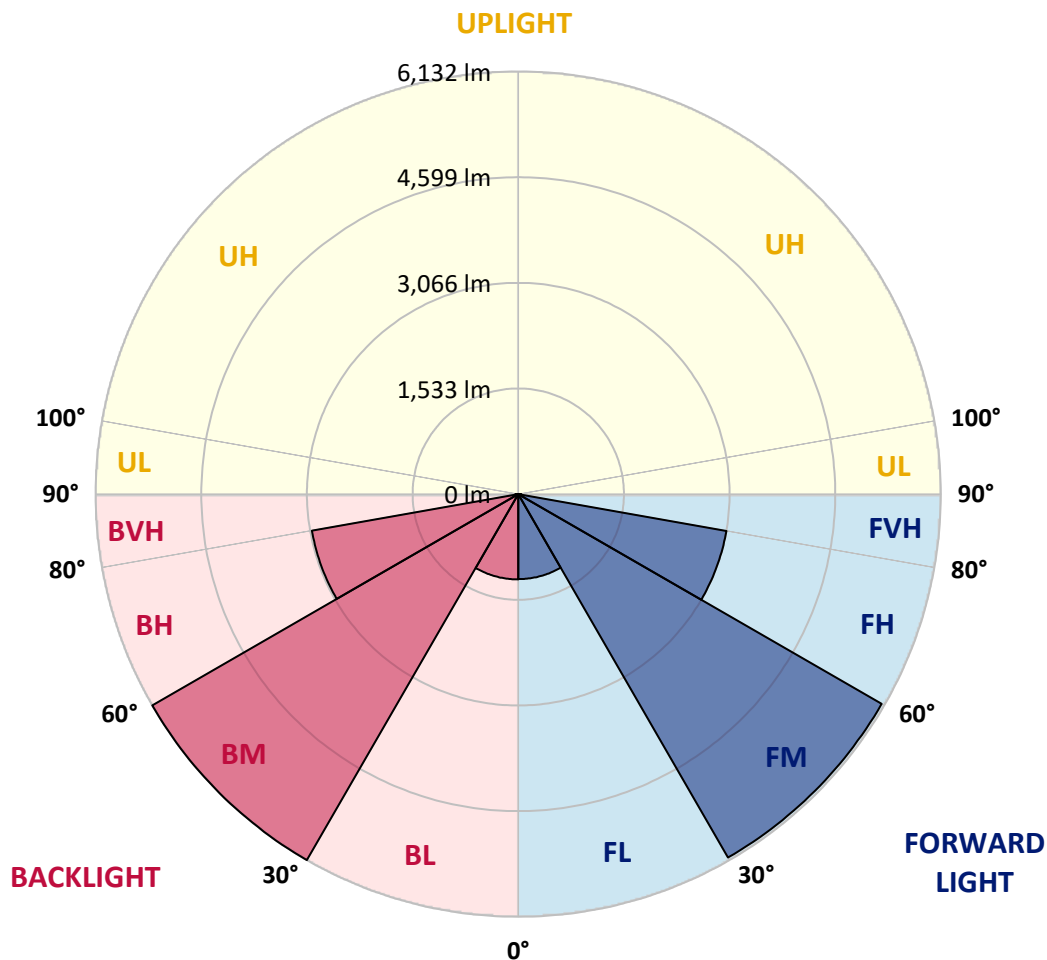
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1232.8	5.9			
FM (30°-60°)	6088.1	29.1			
FH (60°-80°)	3067.6	14.7			G2/5000
FVH (80°-90°)	45.4	0.2			G1/100
BL (0°-30°)	1237.5	5.9	B3/2500		
BM (30°-60°)	6132.1	29.4	B4/8500		
BH (60°-80°)	3041.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	43.1	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°	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5
2.5°	2416.8	2421.6	2464.7	2447.9	2462.3	2435.9	2455.1	2495.8	2447.9	2483.9	2495.8
5°	2443.1	2450.3	2450.3	2467.1	2476.7	2471.9	2483.9	2467.1	2512.6	2493.4	2522.2
7.5°	2538.9	2527.0	2507.8	2522.2	2524.6	2536.5	2548.5	2570.1	2562.9	2546.1	2574.9
10°	2555.7	2546.1	2574.9	2577.3	2565.3	2555.7	2567.7	2567.7	2589.2	2594.0	2594.0
12.5°	2584.5	2594.0	2591.6	2610.8	2613.2	2606.0	2625.2	2661.1	2651.5	2658.7	2641.9
15°	2694.6	2682.7	2680.3	2699.4	2730.6	2685.1	2718.6	2716.2	2706.6	2721.0	2682.7
17.5°	2790.4	2752.1	2768.9	2800.0	2788.0	2797.6	2840.7	2802.4	2812.0	2795.2	2783.3
20°	2874.3	2843.1	2845.5	2857.5	2857.5	2886.3	2903.0	2888.6	2879.1	2876.7	2881.5
22.5°	2967.7	2931.8	2934.2	2984.5	3001.2	2991.6	2979.7	3003.6	3008.4	2989.2	3010.8
25°	3037.1	3075.5	3087.4	3111.4	3075.5	3101.8	3092.2	3137.7	3166.5	3128.2	3154.5
27.5°	3219.2	3202.4	3233.6	3231.2	3259.9	3233.6	3250.3	3264.7	3276.7	3279.1	3267.1
30°	3382.1	3389.2	3358.1	3441.9	3374.9	3418.0	3446.7	3453.9	3468.3	3468.3	3432.4
32.5°	3554.5	3540.1	3590.4	3571.3	3559.3	3592.8	3561.7	3659.9	3602.4	3636.0	3595.2
35°	3748.5	3748.5	3767.7	3820.4	3748.5	3727.0	3784.5	3825.2	3825.2	3765.3	3779.7
37.5°	3966.5	3947.3	3971.3	4038.4	3983.3	3911.4	4016.8	4033.6	4021.6	4004.8	3976.1
40°	4119.8	4115.0	4162.9	4251.5	4172.5	4158.1	4177.3	4222.8	4237.2	4253.9	4215.6
42.5°	4378.5	4400.0	4539.0	4517.4	4452.7	4402.4	4397.6	4567.7	4527.0	4483.9	4462.3
45°	4761.7	4742.6	4814.4	4816.8	4733.0	4622.8	4646.7	4802.4	4871.9	4776.1	4812.0
47.5°	5065.9	5075.5	5125.8	5228.8	5034.8	4919.8	5008.4	5259.9	5238.4	5202.4	5236.0
50°	5473.1	5516.2	5674.3	5638.4	5465.9	5324.6	5518.6	5755.7	5782.1	5650.3	5626.4
52.5°	6036.0	6103.0	6189.3	6218.0	6052.7	6002.4	6014.4	6309.0	6244.4	6117.4	6036.0
55°	6529.4	6560.5	6718.6	6955.7	6943.8	6701.8	6840.8	6951.0	6687.5	6426.4	6448.0
57.5°	6740.2	6754.5	7195.3	7669.5	7952.2	8007.2	7849.2	7477.9	6850.4	6347.4	6316.2
60°	6215.6	6352.1	6883.9	7954.6	9245.6	9882.7	8831.2	7537.8	6469.5	5858.7	5813.2
62.5°	4967.7	4974.9	5765.3	7389.3	10050.4	11719.9	9207.3	6974.9	5453.9	4761.7	4579.7
64°	3537.8	3604.8	4512.6	6541.4	9882.7	12467.2	9161.7	6239.6	4495.8	3513.8	3386.9
65°	2538.9	2632.4	3509.0	5679.1	9489.9	12378.5	9025.2	5607.2	3636.0	2682.7	2553.3
67.5°	934.1	972.5	1377.3	2840.7	6814.4	10548.6	7152.2	3082.7	1597.6	1137.7	1022.8
70°	433.5	435.9	510.2	938.9	2979.7	7053.9	3413.2	1156.9	601.2	476.7	443.1
72.5°	318.6	325.8	356.9	433.5	876.7	2986.8	1121.0	474.3	352.1	311.4	304.2
75°	258.7	263.5	273.1	313.8	404.8	800.0	455.1	328.1	280.2	251.5	241.9
77.5°	198.8	198.8	220.4	239.5	268.3	373.7	301.8	261.1	227.5	198.8	191.6
80°	143.7	146.1	172.5	186.8	182.0	246.7	218.0	215.6	186.8	155.7	143.7
82.5°	83.8	91.0	124.6	134.1	129.3	146.1	158.1	167.7	146.1	107.8	98.2
85°	47.9	50.3	71.9	74.3	74.3	69.5	91.0	100.6	98.2	67.1	59.9
87.5°	14.4	14.4	19.2	19.2	21.6	24.0	35.9	43.1	47.9	33.5	31.1
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°	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5	2445.5
2.5°	2483.9	2447.9	2450.3	2459.9	2428.8	2440.7	2476.7	2450.3	2443.1	2428.8	2421.6
5°	2471.9	2510.2	2495.8	2500.6	2493.4	2459.9	2455.1	2476.7	2488.6	2467.1	2510.2
7.5°	2555.7	2538.9	2519.8	2527.0	2510.2	2538.9	2558.1	2515.0	2536.5	2524.6	2500.6
10°	2603.6	2572.5	2586.8	2582.1	2570.1	2598.8	2579.7	2574.9	2555.7	2529.4	2567.7
12.5°	2620.4	2656.3	2680.3	2639.5	2646.7	2632.4	2620.4	2620.4	2598.8	2591.6	2598.8
15°	2694.6	2725.8	2716.2	2747.3	2706.6	2721.0	2735.4	2699.4	2718.6	2665.9	2706.6
17.5°	2831.2	2804.8	2838.3	2797.6	2812.0	2840.7	2795.2	2795.2	2809.6	2780.9	2744.9
20°	2917.4	2905.4	2893.4	2895.8	2871.9	2898.2	2883.9	2876.7	2855.1	2864.7	2883.9
22.5°	2998.8	2982.1	2986.8	2994.0	3010.8	2998.8	2991.6	2998.8	2946.1	2994.0	2927.0
25°	3099.4	3144.9	3130.6	3161.7	3113.8	3144.9	3142.5	3097.0	3125.8	3106.6	3092.2
27.5°	3267.1	3243.1	3264.7	3226.4	3259.9	3262.3	3233.6	3310.2	3276.7	3271.9	3262.3
30°	3482.7	3465.9	3451.5	3430.0	3456.3	3434.8	3458.7	3465.9	3434.8	3410.8	3365.3
32.5°	3604.8	3650.3	3667.1	3614.4	3616.8	3628.8	3607.2	3585.7	3604.8	3612.0	3604.8
35°	3777.3	3820.4	3830.0	3789.3	3767.7	3827.6	3784.5	3856.3	3794.0	3796.4	3731.8
37.5°	3978.5	3990.5	4071.9	4026.4	4007.2	3978.5	4057.5	4047.9	4062.3	3947.3	4004.8
40°	4206.0	4249.1	4294.6	4179.7	4177.3	4203.6	4198.8	4253.9	4227.6	4210.8	4170.1
42.5°	4455.1	4546.1	4553.3	4476.7	4428.8	4424.0	4447.9	4570.1	4572.5	4462.3	4414.4
45°	4785.7	4886.3	4859.9	4711.4	4658.7	4651.5	4768.9	4821.6	4867.1	4824.0	4783.3
47.5°	5197.6	5264.7	5245.6	5109.0	4939.0	4986.9	5101.8	5267.1	5219.2	5161.7	5113.8
50°	5638.4	5717.4	5676.7	5540.2	5377.3	5377.3	5518.6	5729.4	5715.0	5602.4	5559.3
52.5°	6127.0	6242.0	6335.4	6141.4	6004.8	6026.4	6249.2	6325.8	6289.9	6210.8	6174.9
55°	6491.1	6711.4	6903.0	6912.6	6919.8	6917.4	6974.9	7051.6	6795.3	6668.3	6539.0
57.5°	6402.4	6819.2	7475.5	7921.0	8052.8	8122.2	8103.1	7748.6	7142.6	6725.8	6768.9
60°	5770.1	6450.4	7509.0	8939.0	9897.1	9801.3	9451.6	8050.4	6951.0	6246.8	6158.1
62.5°	4603.6	5422.8	6946.2	9226.4	11866.0	11837.2	10007.3	7353.4	5791.7	4900.6	4845.5
64°	3468.3	4330.6	6196.5	9152.2	12555.8	12584.5	9865.9	6495.9	4531.8	3468.3	3384.5
65°	2653.9	3453.9	5461.1	8998.9	12407.3	12424.0	9473.1	5609.6	3444.3	2462.3	2371.3
67.5°	1056.3	1470.7	2962.9	6824.0	10654.0	10608.5	6759.3	2713.8	1317.4	857.5	840.7
70°	450.3	560.5	1039.5	3233.6	7133.0	7001.3	2910.2	881.4	488.6	409.6	407.2
72.5°	309.0	342.5	445.5	998.8	2965.3	2895.8	828.7	409.6	332.9	306.6	306.6
75°	249.1	273.1	323.4	419.2	785.6	756.9	390.4	301.8	265.9	246.7	244.3
77.5°	194.0	218.0	253.9	289.8	359.3	356.9	261.1	227.5	206.0	191.6	186.8
80°	153.3	177.2	201.2	206.0	234.7	229.9	177.2	179.6	167.7	138.9	136.5
82.5°	105.4	143.7	160.5	146.1	138.9	138.9	126.9	126.9	117.4	86.2	79.0
85°	64.7	95.8	100.6	86.2	64.7	64.7	69.5	67.1	62.3	45.5	43.1
87.5°	33.5	45.5	40.7	33.5	21.6	21.6	19.2	14.4	14.4	12.0	12.0
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)