

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: P478725

Luminaire Tested: **IFLD-M-SA4D-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478725
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

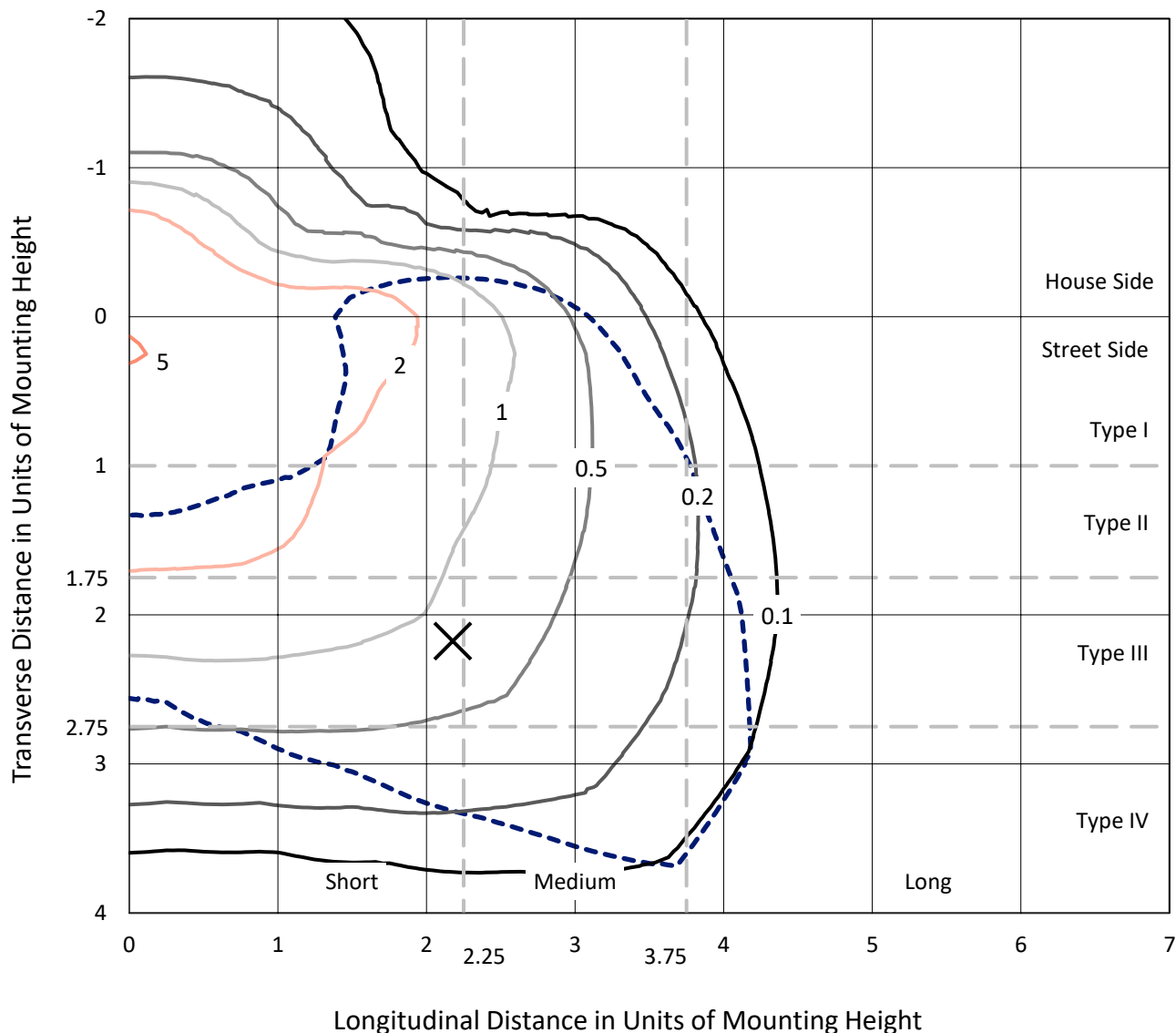
Lumens per Lamp: N/A
Luminaire Lumens: 25126.2 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 249.7
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

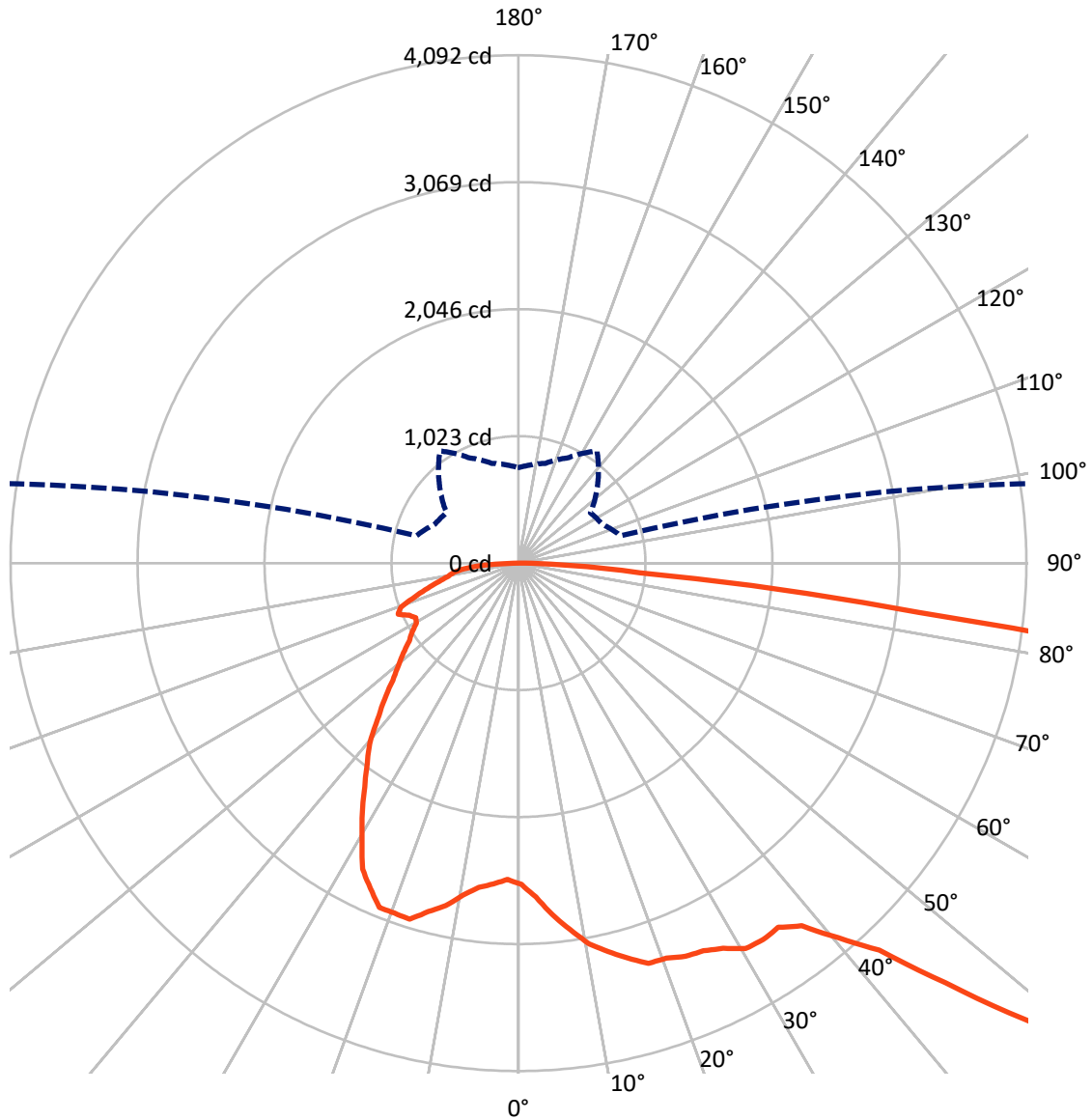
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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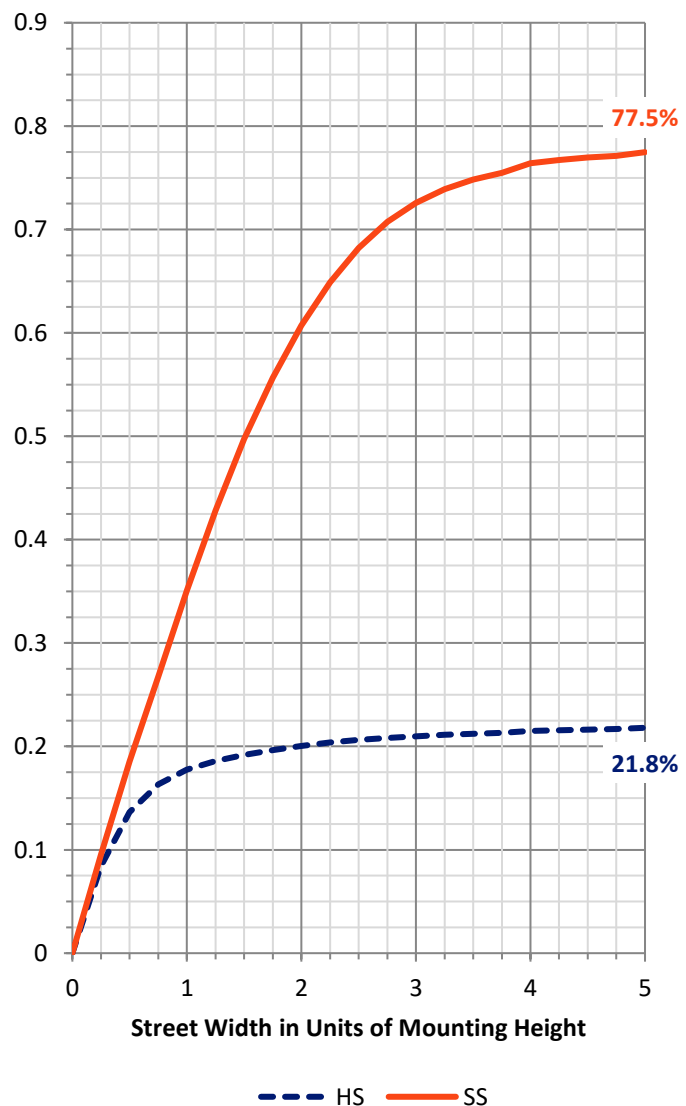
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5593.2	0.0	5593.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19532.9	0.0	19532.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	25126.2	0.0	25126.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.8	1.1
10°-20°	880.9	3.5
20°-30°	1487.6	5.9
30°-40°	2058.7	8.2
40°-50°	2944.7	11.7
50°-60°	4749.5	18.9
60°-70°	7004.8	27.9
70°-80°	5086.7	20.2
80°-90°	648.4	2.6
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°	25126.2	100.0
0°-180°	25126.2	100.0

Coefficient of Utilization



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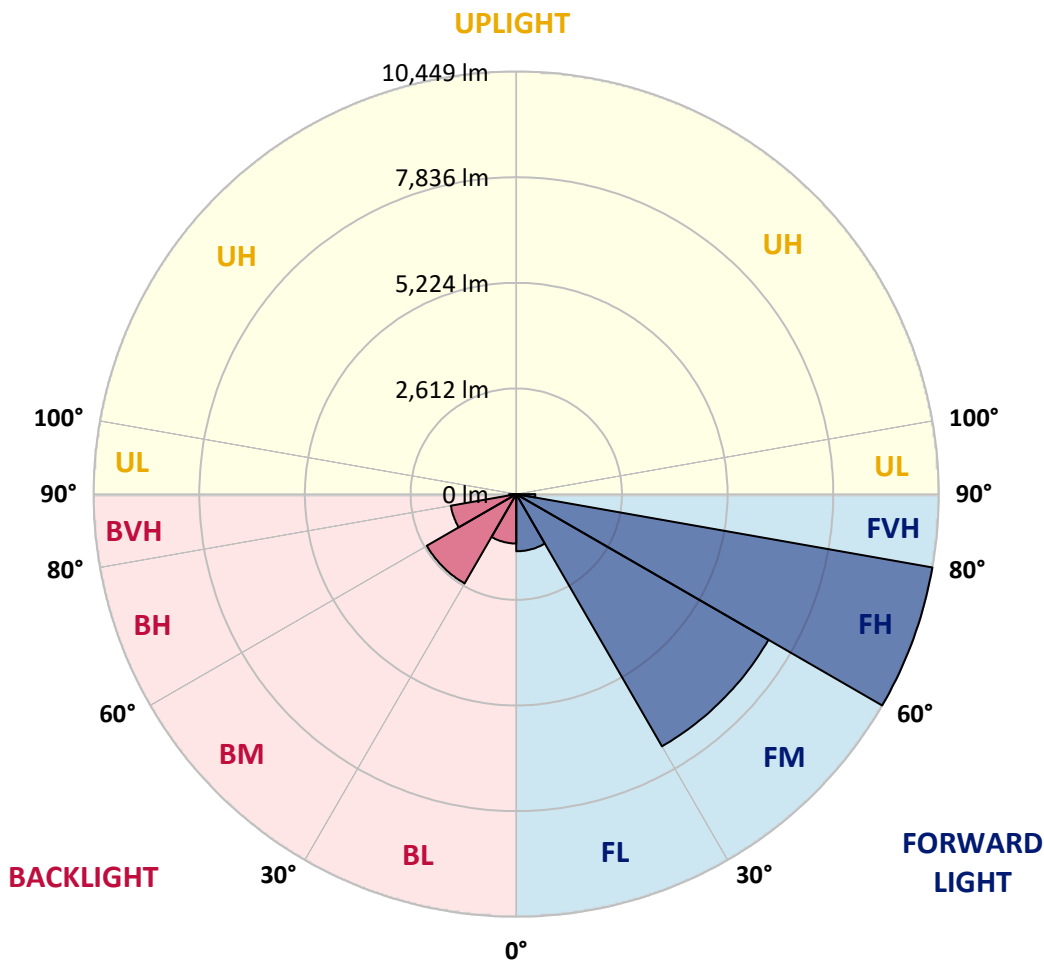
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.1	5.6			
FM (30°-60°)	7200.3	28.7			
FH (60°-80°)	10448.6	41.6			G4/12000
FVH (80°-90°)	472.0	1.9			G3/500
BL (0°-30°)	1221.2	4.9	B3/2500		
BM (30°-60°)	2552.6	10.2	B3/5000		
BH (60°-80°)	1642.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	176.5	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2725.7	2742.0	2725.7	2723.0	2695.9	2677.0	2693.2	2668.8	2641.7	2630.9	2606.5
5°	2975.0	2977.7	2947.9	2950.6	2893.7	2834.1	2844.9	2771.8	2693.2	2663.4	2614.6
7.5°	3229.7	3199.9	3156.5	3143.0	3053.6	2988.5	2980.4	2915.4	2793.5	2725.7	2658.0
10°	3395.0	3405.8	3335.4	3275.7	3199.9	3121.3	3118.6	2996.7	2926.2	2826.0	2739.3
12.5°	3541.3	3544.0	3484.4	3389.5	3294.7	3197.2	3210.7	3156.5	3037.3	2942.5	2855.8
15°	3655.1	3638.8	3573.8	3487.1	3386.8	3311.0	3302.8	3256.8	3156.5	3078.0	2934.4
17.5°	3687.6	3679.5	3614.4	3522.3	3424.8	3367.9	3389.5	3313.7	3273.0	3202.6	3064.4
20°	3625.3	3606.3	3595.5	3492.5	3422.1	3416.6	3397.7	3413.9	3346.2	3281.2	3180.9
22.5°	3511.5	3503.3	3497.9	3416.6	3384.1	3408.5	3441.0	3465.4	3454.6	3392.3	3278.5
25°	3395.0	3432.9	3397.7	3359.7	3405.8	3468.1	3460.0	3538.6	3538.6	3519.6	3424.8
27.5°	3476.2	3451.9	3424.8	3405.8	3422.1	3519.6	3514.2	3609.0	3644.2	3609.0	3500.6
30°	3679.5	3655.1	3576.5	3492.5	3470.8	3576.5	3603.6	3687.6	3703.8	3617.1	3525.0
32.5°	4061.5	4047.9	3923.3	3676.7	3544.0	3603.6	3617.1	3712.0	3698.4	3644.2	3606.3
35°	4627.8	4581.7	4408.3	3991.0	3698.4	3638.8	3603.6	3679.5	3730.9	3703.8	3668.6
37.5°	5248.2	5196.8	4982.7	4454.4	3977.5	3733.6	3706.6	3768.9	3828.5	3814.9	3741.8
40°	5841.6	5841.6	5649.2	5034.2	4392.0	3964.0	3969.4	3898.9	3953.1	3928.7	3942.3
42.5°	6426.9	6405.2	6326.6	5714.3	4836.4	4348.7	4262.0	4085.9	4183.4	4175.3	4194.3
45°	7020.2	7004.0	6982.3	6348.3	5473.1	4868.9	4822.9	4505.8	4595.3	4557.3	4638.6
47.5°	7494.4	7513.4	7513.4	7055.5	6153.2	5562.5	5494.8	4993.5	5164.2	5183.2	5202.2
50°	7898.1	7906.2	7898.1	7730.1	6911.9	6356.4	6218.2	5708.8	5879.5	6028.6	6202.0
52.5°	8456.2	8467.1	8429.2	8364.1	7941.4	7190.9	7036.5	6470.2	6819.7	6976.9	7288.5
55°	9144.5	9063.2	8992.7	9041.5	8930.4	8109.4	7949.6	7256.0	7781.6	7990.2	8613.4
57.5°	9271.8	9342.2	9521.1	9908.5	10068.4	9003.6	8911.4	8220.5	8868.1	9049.6	10090.1
60°	9721.6	9605.1	10044.0	10883.9	11062.8	10168.6	10073.8	9277.2	9949.2	10138.8	11452.9
62.5°	10016.9	10011.5	10661.8	11658.8	12065.3	11377.1	11184.7	10650.9	11116.9	11301.2	12937.7
65°	9930.2	10008.8	11163.0	12114.0	12902.5	12750.8	12639.7	11832.2	12447.3	12431.0	13905.0
67.5°	9139.0	9361.2	10846.0	12441.9	14148.8	14425.2	14390.0	13493.1	13528.4	13184.3	14335.8
70°	8041.7	7965.8	9504.8	12100.5	14772.0	16411.2	16403.1	14728.7	14501.1	13349.5	13100.3
72°	6177.6	6093.6	7358.9	10390.8	14444.2	17205.1	17449.0	15584.9	14490.2	12664.0	10821.6
72.5°	5608.6	5535.4	6795.3	9781.2	14081.1	17411.0	17297.2	15617.4	14376.4	12341.6	10109.0
75°	2582.1	2498.1	3395.0	5987.9	10984.2	15427.7	15815.2	14614.9	12555.7	9824.5	6055.7
77.5°	769.5	745.1	1091.9	2416.8	6383.5	11366.2	11515.2	11027.5	8765.1	5381.0	2246.1
80°	428.1	430.8	563.6	905.0	2807.0	6570.5	7106.9	6811.6	4299.9	1777.4	747.8
82.5°	238.4	252.0	352.2	536.5	1289.7	3015.6	3245.9	3129.4	1555.2	834.5	409.1
85°	124.6	130.1	184.2	287.2	731.6	953.7	980.8	1051.3	807.4	569.0	219.5
87.5°	48.8	48.8	67.7	119.2	270.9	295.3	265.5	322.4	463.3	368.5	108.4
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°	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5	2587.5
2.5°	2628.2	2606.5	2603.8	2568.6	2579.4	2549.6	2552.3	2546.9	2549.6	2544.2	2530.6
5°	2614.6	2598.4	2552.3	2582.1	2555.0	2593.0	2622.8	2611.9	2620.1	2617.3	2620.1
7.5°	2633.6	2611.9	2606.5	2590.3	2614.6	2630.9	2655.3	2723.0	2717.6	2725.7	2742.0
10°	2690.5	2666.1	2649.9	2674.2	2660.7	2712.2	2739.3	2774.5	2836.8	2839.5	2807.0
12.5°	2801.6	2785.3	2752.8	2758.2	2804.3	2820.6	2836.8	2858.5	2899.1	2891.0	2920.8
15°	2928.9	2893.7	2874.7	2869.3	2880.2	2899.1	2896.4	2918.1	2939.8	2958.7	2950.6
17.5°	3021.1	2975.0	2980.4	3007.5	3004.8	2999.4	2964.2	2953.3	2964.2	2975.0	2969.6
20°	3115.9	3121.3	3080.7	3056.3	3045.4	2991.3	2964.2	2931.6	2899.1	2915.4	2939.8
22.5°	3235.1	3210.7	3151.1	3078.0	3023.8	2991.3	2907.3	2850.4	2850.4	2866.6	2858.5
25°	3370.6	3319.1	3216.1	3083.4	3015.6	2877.5	2817.8	2809.7	2788.0	2812.4	2823.3
27.5°	3476.2	3430.2	3289.3	3064.4	2877.5	2766.4	2731.1	2720.3	2755.5	2758.2	2801.6
30°	3519.6	3506.1	3300.1	3015.6	2736.6	2557.7	2536.1	2584.8	2622.8	2679.7	2682.4
32.5°	3576.5	3581.9	3316.4	2901.8	2552.3	2373.5	2341.0	2400.6	2509.0	2555.0	2590.3
35°	3671.3	3698.4	3302.8	2760.9	2357.2	2186.5	2181.1	2197.4	2303.0	2384.3	2430.4
37.5°	3836.6	3831.2	3300.1	2593.0	2202.8	2024.0	1980.6	1986.0	2056.5	2124.2	2116.1
40°	4058.8	4037.1	3292.0	2373.5	2002.3	1885.8	1812.6	1785.5	1780.1	1761.2	1766.6
42.5°	4362.2	4318.9	3289.3	2151.3	1820.8	1696.1	1644.6	1574.2	1522.7	1425.2	1430.6
45°	4784.9	4709.1	3218.8	1942.7	1641.9	1539.0	1460.4	1408.9	1297.8	1175.9	1175.9
47.5°	5437.9	5191.3	3221.6	1712.4	1468.5	1384.5	1330.3	1240.9	1121.7	1024.2	1013.3
50°	6399.8	5836.2	3129.4	1530.8	1327.6	1270.7	1213.8	1110.9	997.1	929.3	937.5
52.5°	7640.7	6798.1	3126.7	1368.3	1216.6	1175.9	1113.6	1021.5	937.5	894.1	877.9
55°	9120.1	8071.5	3224.3	1235.5	1102.8	1081.1	1054.0	978.1	896.8	858.9	856.2
57.5°	10634.7	9315.1	3381.4	1140.7	1005.2	1021.5	1002.5	942.9	877.9	834.5	829.1
60°	11981.3	10301.4	3064.4	1026.9	918.5	953.7	980.8	929.3	894.1	891.4	872.4
62.5°	12997.3	10724.1	2330.1	940.2	872.4	937.5	1010.6	1043.1	1026.9	1048.6	1051.3
65°	13368.5	10469.4	1604.0	894.1	837.2	975.4	1138.0	1127.1	1032.3	991.7	1013.3
67.5°	12848.3	9437.1	1189.5	839.9	812.8	1054.0	1211.1	1075.7	932.1	926.6	910.4
70°	11049.2	7998.3	970.0	783.0	772.2	1010.6	1178.6	997.1	877.9	842.6	826.4
72°	8803.1	6229.1	850.8	742.4	707.2	902.3	1102.8	934.8	831.8	788.5	769.5
72.5°	8036.3	5773.9	834.5	723.4	693.6	877.9	1064.8	915.8	821.0	783.0	753.2
75°	4408.3	2956.0	734.3	663.8	585.2	758.7	986.2	858.9	774.9	720.7	715.3
77.5°	1639.2	1146.1	634.0	588.0	506.7	655.7	896.8	815.5	704.5	636.7	623.2
80°	628.6	604.2	517.5	495.8	425.4	574.4	826.4	731.6	598.8	531.1	509.4
82.5°	382.0	352.2	392.9	387.5	325.1	522.9	777.6	685.5	531.1	430.8	417.3
85°	208.6	208.6	273.7	262.8	227.6	417.3	588.0	455.2	336.0	276.4	281.8
87.5°	92.1	108.4	146.3	138.2	124.6	235.7	287.2	241.1	168.0	113.8	121.9
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)