

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: P481297

Luminaire Tested: **IFLD-M-SA4B-740-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481297
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

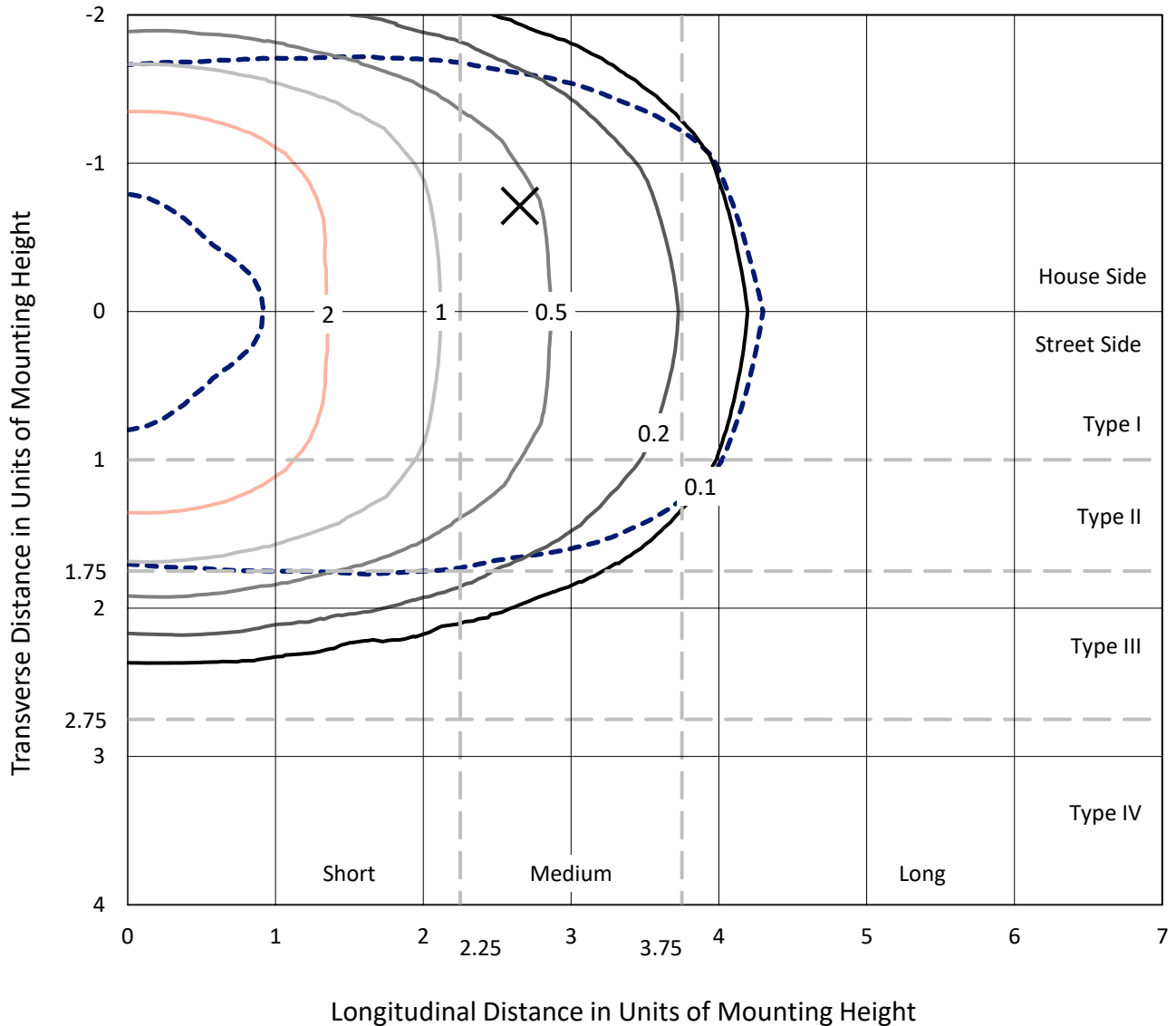
Lumens per Lamp: N/A
Luminaire Lumens: 23525.3 lumens
Efficiency: N/A
Efficacy: 141.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 166.1
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

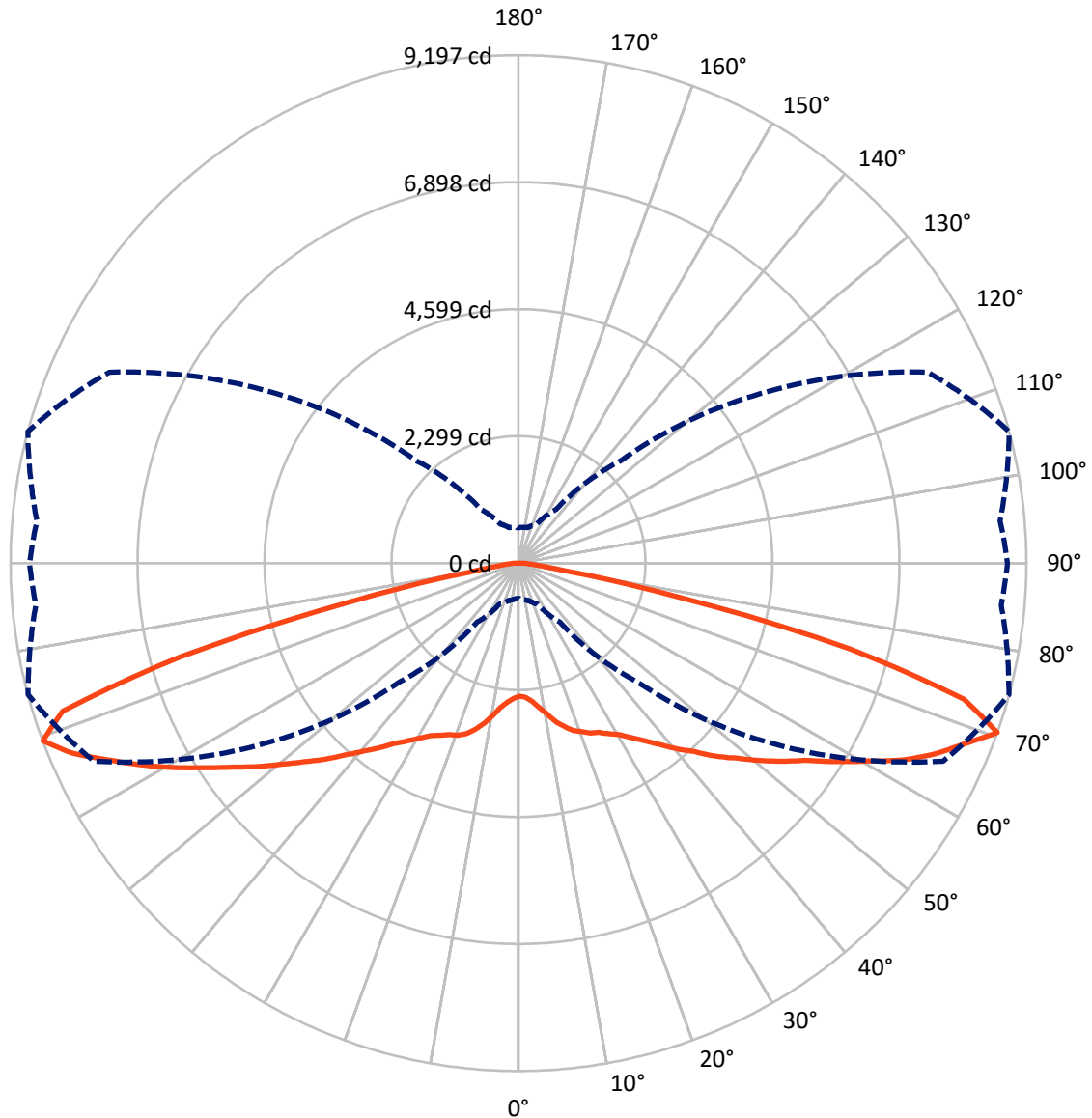
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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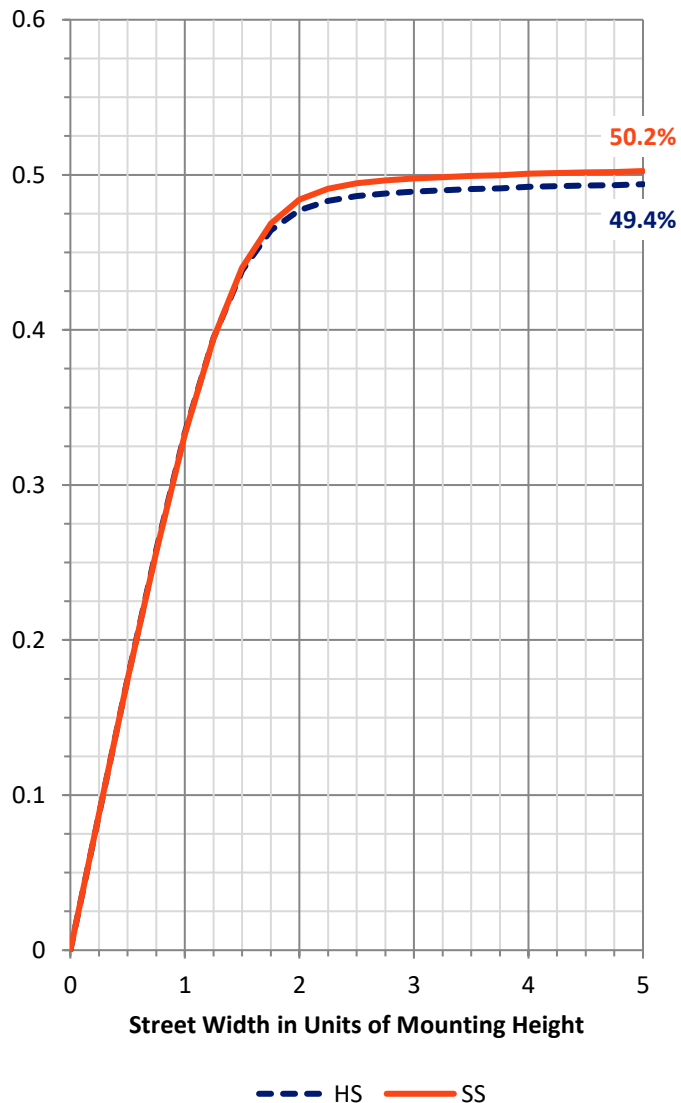
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11678.9	0.0	11678.9
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	11846.3	0.0	11846.3
	% Fixture	50.4	0.0	50.4
Total	Lumens	23525.3	0.0	23525.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.8	1.0
10°-20°	816.4	3.5
20°-30°	1580.8	6.7
30°-40°	2673.9	11.4
40°-50°	4265.6	18.1
50°-60°	5838.7	24.8
60°-70°	5503.3	23.4
70°-80°	2424.4	10.3
80°-90°	182.4	0.8
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°	23525.3	100.0
0°-180°	23525.3	100.0

Coefficient of Utilization



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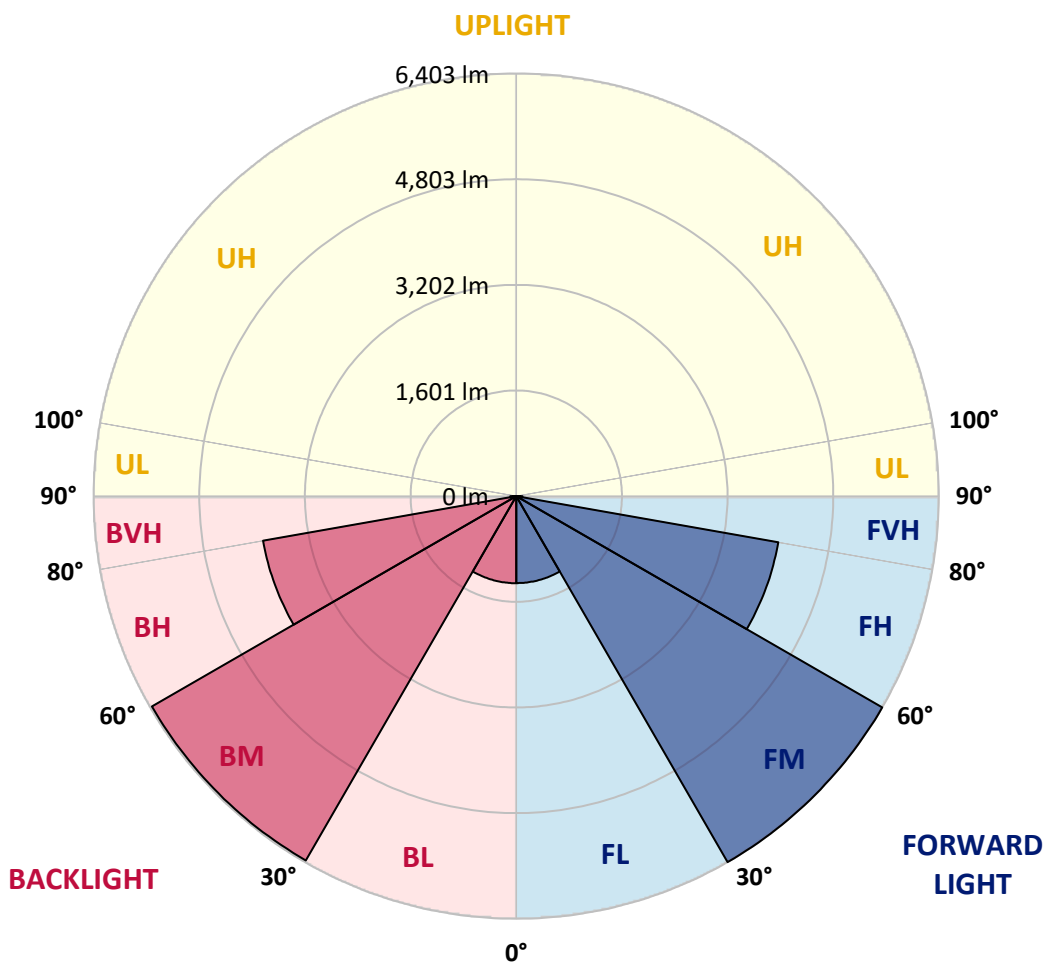
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1317.8	5.6			
FM (30°-60°)	6403.4	27.2			
FH (60°-80°)	4032.0	17.1			G2/5000
FVH (80°-90°)	93.2	0.4			G1/100
BL (0°-30°)	1319.2	5.6	B3/2500		
BM (30°-60°)	6374.7	27.1	B4/8500		
BH (60°-80°)	3895.7	16.6	B4/5000		G4/5000
BVH (80°-90°)	89.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2393.7	2393.7	2391.2	2403.9	2416.6	2421.6	2431.8	2434.3	2449.5	2436.9	2462.2
5°	2386.1	2383.6	2403.9	2434.3	2434.3	2467.3	2487.6	2515.5	2523.1	2538.3	2543.4
7.5°	2439.4	2434.3	2424.2	2457.1	2485.0	2535.8	2563.6	2611.8	2629.6	2649.9	2672.7
10°	2472.4	2472.4	2462.2	2520.5	2545.9	2614.4	2675.2	2723.4	2791.9	2814.7	2817.2
12.5°	2477.4	2485.0	2515.5	2591.5	2662.5	2751.3	2796.9	2888.2	2956.7	2999.8	3015.0
15°	2553.5	2538.3	2571.3	2675.2	2779.2	2857.8	2938.9	3004.9	3103.8	3159.5	3195.0
17.5°	2622.0	2606.8	2667.6	2791.9	2898.4	3020.1	3091.1	3162.1	3233.1	3283.8	3286.3
20°	2731.0	2743.7	2796.9	2931.3	3070.8	3177.3	3258.4	3271.1	3306.6	3380.2	3367.5
22.5°	2865.4	2855.3	2966.8	3113.9	3266.0	3354.8	3400.4	3367.5	3349.7	3428.3	3446.1
25°	2999.8	3030.2	3131.7	3268.6	3451.2	3570.3	3583.0	3491.7	3425.8	3453.7	3446.1
27.5°	3205.2	3210.3	3316.8	3479.0	3664.2	3768.1	3760.5	3631.2	3504.4	3506.9	3512.0
30°	3468.9	3443.5	3560.2	3707.3	3889.8	3983.7	3996.3	3811.2	3641.3	3590.6	3603.3
32.5°	3722.5	3752.9	3854.3	4021.7	4156.1	4209.3	4181.5	4016.6	3796.0	3727.6	3735.2
35°	4047.1	4042.0	4181.5	4323.5	4424.9	4435.0	4412.2	4171.3	3963.4	3874.6	3839.1
37.5°	4394.5	4440.1	4531.4	4648.0	4754.5	4759.6	4635.4	4442.6	4186.5	4039.4	4082.6
40°	4782.4	4833.1	4899.1	5069.0	5147.6	5066.4	4939.6	4678.5	4412.2	4282.9	4303.2
42.5°	5124.8	5147.6	5282.0	5482.3	5520.3	5484.8	5297.2	4980.2	4670.9	4528.8	4539.0
45°	5439.2	5469.6	5644.6	5824.6	5913.4	5852.5	5634.4	5332.7	4972.6	4850.9	4802.7
47.5°	5728.3	5789.1	5959.0	6144.1	6281.1	6286.1	6017.3	5652.2	5271.8	5112.1	5109.5
50°	5923.5	6012.3	6179.6	6390.1	6590.4	6669.0	6400.2	6007.2	5598.9	5429.0	5411.3
52.5°	6030.0	6121.3	6288.7	6615.8	6838.9	6960.6	6833.8	6339.4	5981.8	5804.3	5776.4
55°	5900.7	5961.5	6235.4	6694.4	7039.2	7239.6	7155.9	6798.3	6362.2	6217.7	6243.0
57.5°	5350.4	5477.2	5814.5	6387.6	7034.2	7526.1	7518.5	7232.0	6800.9	6664.0	6669.0
60°	4404.6	4511.1	4927.0	5728.3	6750.2	7642.8	7911.5	7652.9	7292.8	7133.1	7128.0
62.5°	3108.8	3243.2	3725.0	4599.9	5913.4	7480.5	8362.9	8182.9	7774.6	7658.0	7701.1
65°	1739.5	1820.7	2267.0	3058.1	4506.0	6587.9	8444.0	8733.1	8264.0	8086.5	8094.1
67.5°	930.6	961.0	1169.0	1605.1	2756.4	5079.1	7625.0	9050.1	8794.0	8487.2	8439.0
70°	639.0	649.2	702.4	821.6	1303.4	3037.8	5751.1	8484.6	9192.1	8773.7	8854.8
72.5°	540.1	535.0	547.7	560.4	682.1	1359.2	3375.1	6529.6	8677.3	8520.1	8489.7
75°	469.1	466.6	471.6	459.0	474.2	598.4	1493.6	4069.9	6352.1	7090.0	7204.1
77.5°	388.0	390.5	393.0	380.4	375.3	395.6	601.0	1787.7	3126.6	3451.2	3722.5
80°	294.1	299.2	319.5	306.8	286.5	289.1	355.0	598.4	897.7	814.0	839.3
82.5°	200.3	202.9	246.0	230.8	215.5	195.3	228.2	309.4	349.9	266.3	233.3
85°	142.0	139.5	159.8	147.1	136.9	98.9	136.9	175.0	210.5	131.9	119.2
87.5°	33.0	33.0	65.9	53.3	50.7	40.6	53.3	68.5	91.3	58.3	53.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0	2409.0
2.5°	2454.6	2431.8	2431.8	2426.7	2406.4	2401.4	2383.6	2388.7	2376.0	2363.3
5°	2540.8	2510.4	2510.4	2467.3	2426.7	2421.6	2401.4	2401.4	2381.1	2386.1
7.5°	2660.0	2632.1	2586.5	2548.4	2492.6	2469.8	2431.8	2426.7	2421.6	2411.5
10°	2802.0	2766.5	2720.9	2642.3	2596.6	2553.5	2515.5	2462.2	2449.5	2452.1
12.5°	2994.7	2938.9	2840.0	2771.6	2713.3	2657.5	2601.7	2523.1	2505.3	2512.9
15°	3131.7	3060.7	2961.8	2936.4	2857.8	2789.3	2698.0	2609.3	2578.9	2571.3
17.5°	3243.2	3184.9	3126.6	3088.5	3025.1	2941.5	2814.7	2713.3	2644.8	2637.2
20°	3334.5	3258.4	3245.8	3268.6	3190.0	3134.2	2979.5	2855.3	2764.0	2725.9
22.5°	3390.3	3342.1	3377.6	3397.9	3392.8	3299.0	3139.3	2994.7	2880.6	2845.1
25°	3451.2	3395.4	3522.2	3590.6	3608.4	3453.7	3329.4	3139.3	3027.7	3004.9
27.5°	3481.6	3501.9	3648.9	3793.5	3780.8	3661.6	3494.3	3324.4	3235.6	3195.0
30°	3570.3	3603.3	3826.4	3988.7	3991.3	3874.6	3747.8	3555.1	3456.2	3438.5
32.5°	3730.1	3770.7	4009.0	4181.5	4211.9	4123.1	3996.3	3877.2	3775.7	3735.2
35°	3851.8	3955.8	4224.6	4381.8	4462.9	4409.7	4338.7	4214.4	4107.9	4072.4
37.5°	4026.8	4171.3	4430.0	4643.0	4734.2	4729.2	4675.9	4541.5	4452.8	4422.3
40°	4277.8	4422.3	4658.2	4939.6	5109.5	5101.9	5071.5	4967.5	4835.7	4820.5
42.5°	4544.1	4663.2	4970.1	5292.1	5535.5	5510.2	5429.0	5307.3	5216.0	5195.8
45°	4802.7	4987.8	5271.8	5685.2	5867.7	5931.1	5834.8	5626.8	5522.9	5510.2
47.5°	5127.3	5274.4	5629.4	5999.6	6270.9	6281.1	6116.2	5923.5	5733.3	5773.9
50°	5416.4	5611.6	5971.7	6377.4	6702.0	6585.3	6374.9	6134.0	5997.0	5943.8
52.5°	5725.7	5964.1	6382.5	6795.8	6975.8	6859.2	6516.9	6248.1	6040.2	6017.3
55°	6177.1	6301.3	6849.1	7166.0	7224.4	6978.4	6473.8	6093.4	5824.6	5758.7
57.5°	6636.1	6780.6	7259.9	7533.7	7472.9	6912.5	6194.8	5606.5	5254.1	5160.3
60°	7100.1	7277.6	7680.8	7931.8	7617.4	6458.6	5406.2	4648.0	4237.2	4153.6
62.5°	7617.4	7848.1	8208.2	8297.0	7188.9	5560.9	4290.5	3354.8	2938.9	2799.5
65°	8076.4	8312.2	8755.9	8220.9	6278.5	4148.5	2774.1	1917.0	1610.2	1498.6
67.5°	8454.2	8720.4	8938.5	7275.1	4597.3	2429.2	1445.4	1009.2	895.1	854.5
70°	8753.4	9197.2	8177.8	5347.9	2627.0	1184.2	781.0	664.4	649.2	639.0
72.5°	8492.2	8433.9	6106.1	3086.0	1151.2	651.7	565.5	547.7	545.2	547.7
75°	6945.4	6194.8	3651.5	1341.4	578.2	471.6	469.1	461.5	474.2	474.2
77.5°	3370.0	2946.5	1526.5	575.6	380.4	370.2	382.9	382.9	382.9	382.9
80°	781.0	864.7	545.2	349.9	276.4	276.4	304.3	306.8	294.1	289.1
82.5°	266.3	355.0	299.2	220.6	182.6	205.4	230.8	235.8	195.3	197.8
85°	131.9	207.9	162.3	126.8	93.8	126.8	149.6	157.2	134.4	129.3
87.5°	60.9	91.3	60.9	43.1	33.0	45.6	43.1	35.5	20.3	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)