

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: P479114

Luminaire Tested: **IFLD-M-SA4C-830-U-5NQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479114
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-830-U-5NQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

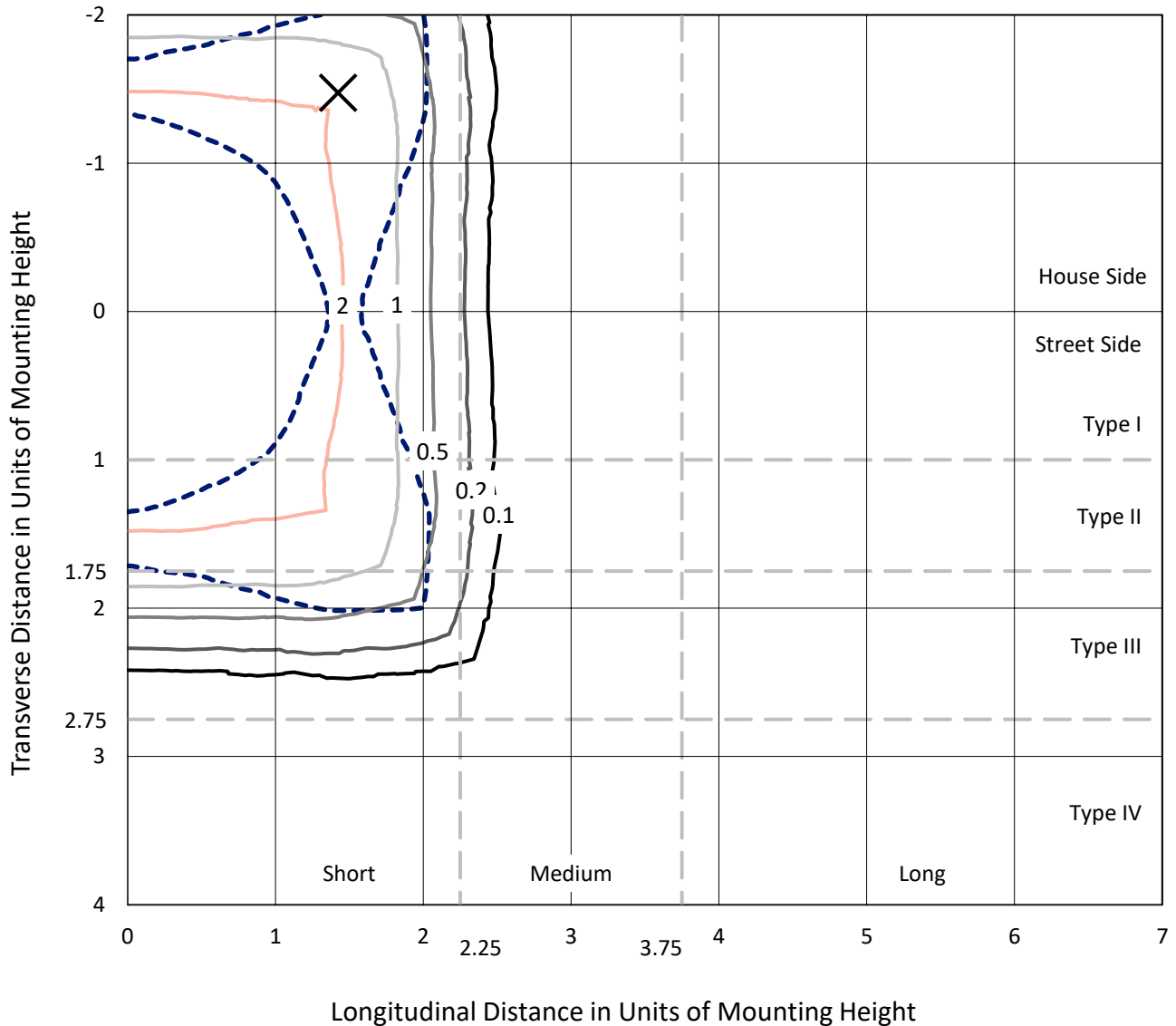
Lumens per Lamp: N/A
Luminaire Lumens: 22532.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

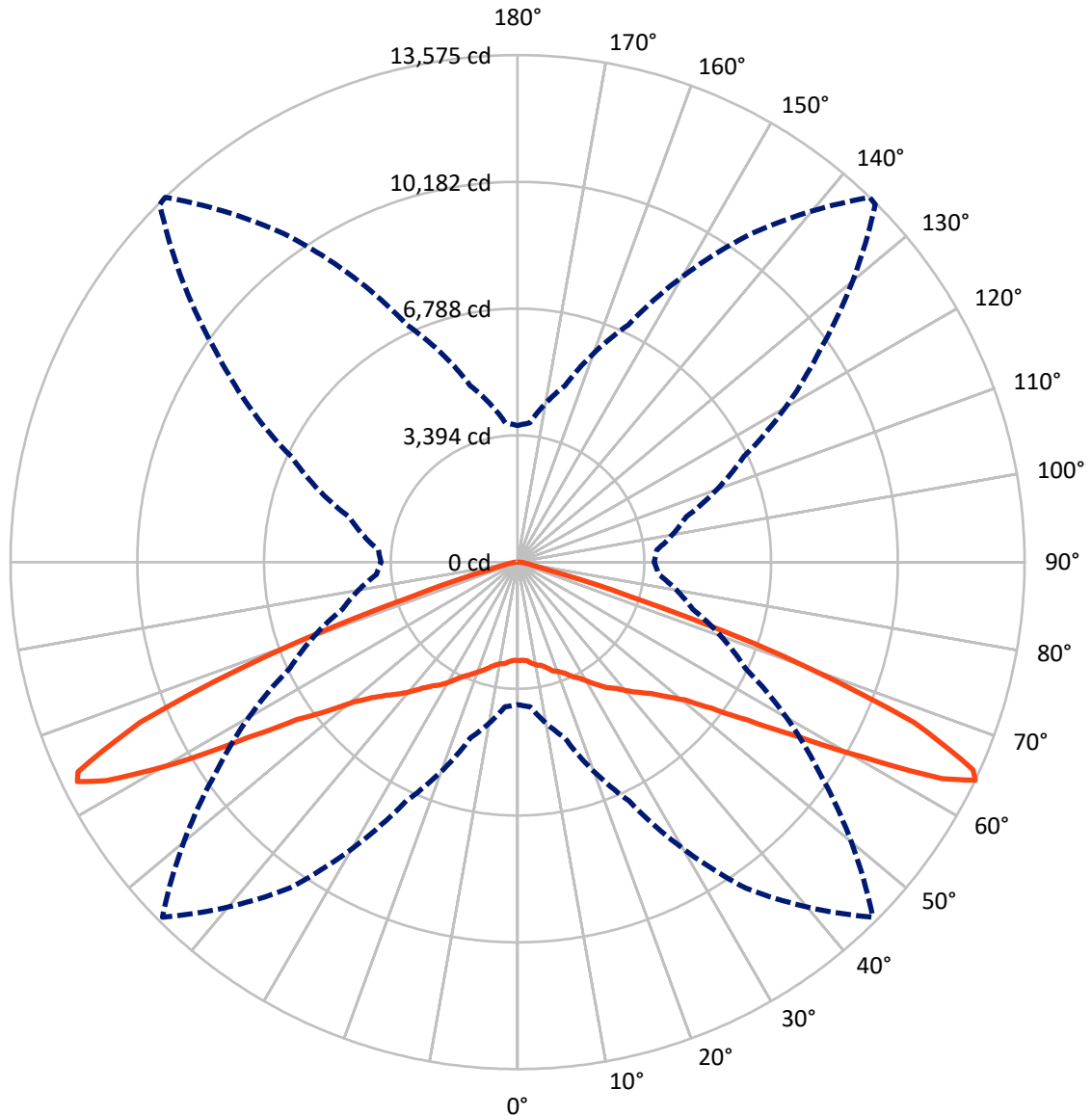
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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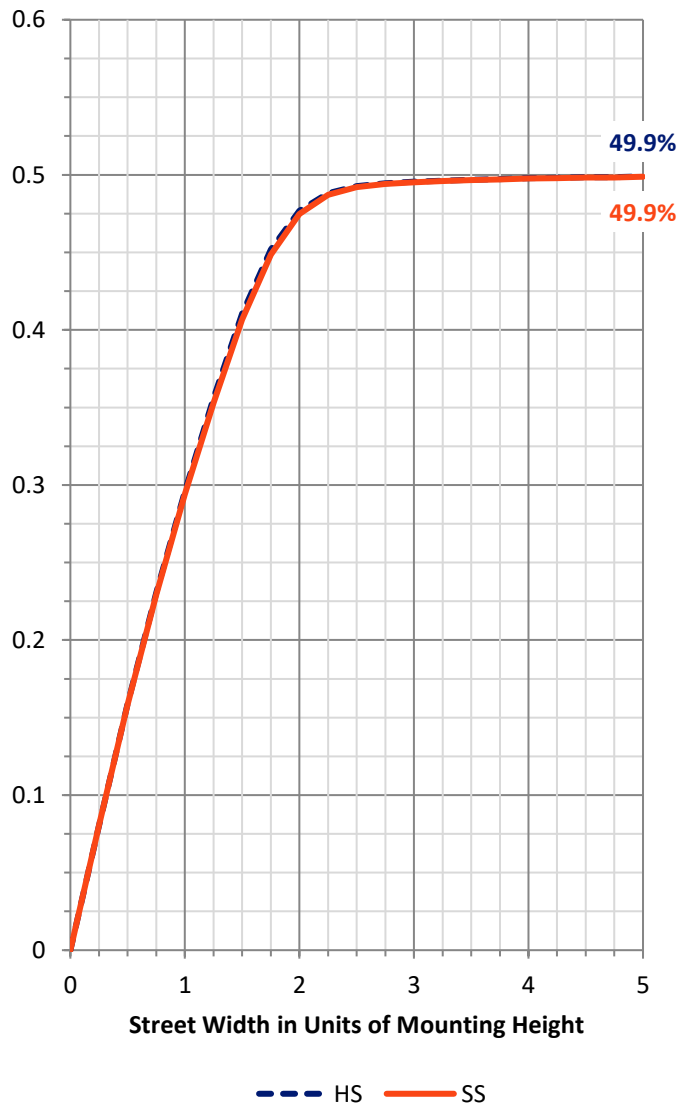
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11277.0	0.0	11277.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11255.5	0.0	11255.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	22532.5	0.0	22532.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.2	1.2
10°-20°	835.4	3.7
20°-30°	1570.1	7.0
30°-40°	2589.4	11.5
40°-50°	4049.7	18.0
50°-60°	6543.3	29.0
60°-70°	5891.8	26.1
70°-80°	697.9	3.1
80°-90°	95.5	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°	22532.5	100.0
0°-180°	22532.5	100.0

Coefficient of Utilization



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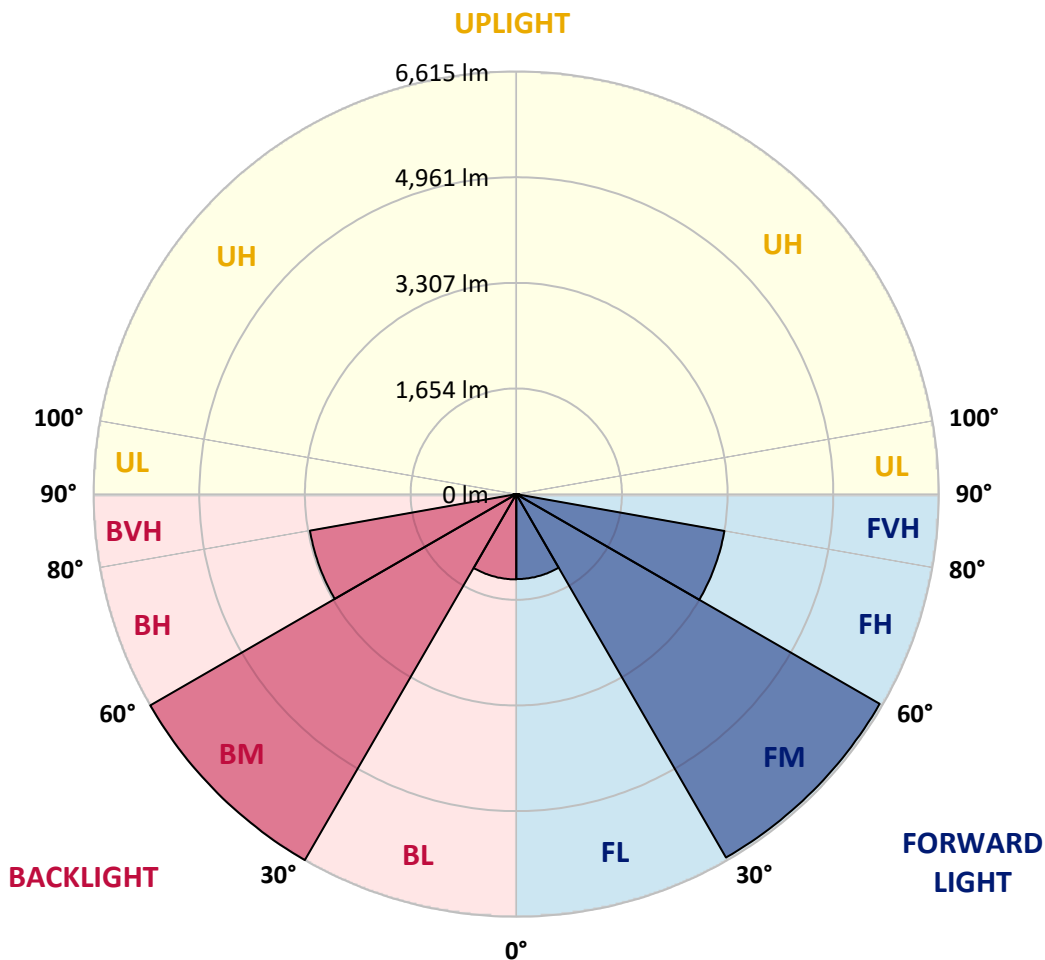
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.8	5.9			
FM (30°-60°)	6567.5	29.1			
FH (60°-80°)	3309.1	14.7			G2/5000
FVH (80°-90°)	49.0	0.2			G1/100
BL (0°-30°)	1335.0	5.9	B3/2500		
BM (30°-60°)	6614.9	29.4	B4/8500		
BH (60°-80°)	3280.6	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.5	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°	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1
2.5°	2607.1	2612.3	2658.8	2640.7	2656.2	2627.8	2648.4	2692.3	2640.7	2679.4	2692.3
5°	2635.5	2643.3	2643.3	2661.3	2671.7	2666.5	2679.4	2661.3	2710.4	2689.8	2720.8
7.5°	2738.9	2725.9	2705.3	2720.8	2723.4	2736.3	2749.2	2772.4	2764.7	2746.6	2777.6
10°	2756.9	2746.6	2777.6	2780.2	2767.3	2756.9	2769.9	2769.9	2793.1	2798.3	2798.3
12.5°	2788.0	2798.3	2795.7	2816.4	2819.0	2811.2	2831.9	2870.6	2860.3	2868.1	2850.0
15°	2906.8	2893.9	2891.3	2912.0	2945.6	2896.5	2932.6	2930.1	2919.7	2935.2	2893.9
17.5°	3010.2	2968.8	2986.9	3020.5	3007.6	3017.9	3064.4	3023.1	3033.4	3015.3	3002.4
20°	3100.6	3067.0	3069.6	3082.5	3082.5	3113.5	3131.6	3116.1	3105.8	3103.2	3108.3
22.5°	3201.4	3162.6	3165.2	3219.5	3237.5	3227.2	3214.3	3240.1	3245.3	3224.6	3247.9
25°	3276.3	3317.6	3330.6	3356.4	3317.6	3346.1	3335.7	3384.8	3415.8	3374.5	3402.9
27.5°	3472.7	3454.6	3488.2	3485.6	3516.6	3488.2	3506.3	3521.8	3534.7	3537.3	3524.3
30°	3648.4	3656.1	3622.5	3713.0	3640.6	3687.1	3718.1	3725.9	3741.4	3741.4	3702.6
32.5°	3834.4	3818.9	3873.2	3852.5	3839.6	3875.7	3842.2	3948.1	3886.1	3922.3	3878.3
35°	4043.7	4043.7	4064.4	4121.2	4043.7	4020.4	4082.5	4126.4	4126.4	4061.8	4077.3
37.5°	4278.8	4258.2	4284.0	4356.3	4296.9	4219.4	4333.1	4351.2	4338.2	4320.2	4289.2
40°	4444.2	4439.0	4490.7	4586.3	4501.0	4485.5	4506.2	4555.3	4570.8	4588.9	4547.5
42.5°	4723.2	4746.5	4896.4	4873.1	4803.3	4749.1	4743.9	4927.4	4883.4	4836.9	4813.7
45°	5136.7	5116.0	5193.5	5196.1	5105.6	4986.8	5012.6	5180.6	5255.5	5152.2	5190.9
47.5°	5464.8	5475.1	5529.4	5640.5	5431.2	5307.2	5402.8	5674.1	5650.8	5612.1	5648.3
50°	5904.0	5950.6	6121.1	6082.3	5896.3	5743.9	5953.1	6208.9	6237.4	6095.3	6069.4
52.5°	6511.2	6583.6	6676.6	6707.6	6529.3	6475.1	6488.0	6805.8	6736.0	6599.1	6511.2
55°	7043.5	7077.1	7247.6	7503.4	7490.5	7229.6	7379.4	7498.3	7214.1	6932.4	6955.7
57.5°	7270.9	7286.4	7761.8	8273.4	8578.3	8637.7	8467.2	8066.7	7389.8	6847.1	6813.6
60°	6705.0	6852.3	7425.9	8580.9	9973.6	10660.9	9526.6	8131.3	6978.9	6320.0	6271.0
62.5°	5358.9	5366.6	6219.3	7971.1	10841.7	12642.7	9932.2	7524.1	5883.4	5136.7	4940.3
64°	3816.3	3888.7	4867.9	7056.4	10660.9	13448.8	9883.1	6730.9	4849.8	3790.5	3653.5
65°	2738.9	2839.6	3785.3	6126.3	10237.1	13353.2	9735.9	6048.7	3922.3	2893.9	2754.4
67.5°	1007.7	1049.0	1485.7	3064.4	7351.0	11379.2	7715.3	3325.4	1723.4	1227.3	1103.3
70°	467.7	470.3	550.4	1012.9	3214.3	7609.4	3682.0	1248.0	648.5	514.2	478.0
72.5°	343.6	351.4	385.0	467.7	945.7	3222.0	1209.2	511.6	379.8	335.9	328.1
75°	279.1	284.2	294.6	338.5	436.7	863.0	490.9	354.0	302.3	271.3	261.0
77.5°	214.5	214.5	237.7	258.4	289.4	403.1	325.6	281.6	245.5	214.5	206.7
80°	155.0	157.6	186.0	201.5	196.4	266.1	235.1	232.5	201.5	167.9	155.0
82.5°	90.4	98.2	134.4	144.7	139.5	157.6	170.5	180.9	157.6	116.3	105.9
85°	51.7	54.3	77.5	80.1	80.1	74.9	98.2	108.5	105.9	72.3	64.6
87.5°	15.5	15.5	20.7	20.7	23.3	25.8	38.8	46.5	51.7	36.2	33.6
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°	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1	2638.1
2.5°	2679.4	2640.7	2643.3	2653.6	2620.0	2632.9	2671.7	2643.3	2635.5	2620.0	2612.3
5°	2666.5	2707.9	2692.3	2697.5	2689.8	2653.6	2648.4	2671.7	2684.6	2661.3	2707.9
7.5°	2756.9	2738.9	2718.2	2725.9	2707.9	2738.9	2759.5	2713.0	2736.3	2723.4	2697.5
10°	2808.6	2775.0	2790.5	2785.4	2772.4	2803.5	2782.8	2777.6	2756.9	2728.5	2769.9
12.5°	2826.7	2865.5	2891.3	2847.4	2855.1	2839.6	2826.7	2826.7	2803.5	2795.7	2803.5
15°	2906.8	2940.4	2930.1	2963.7	2919.7	2935.2	2950.7	2912.0	2932.6	2875.8	2919.7
17.5°	3054.1	3025.7	3061.8	3017.9	3033.4	3064.4	3015.3	3015.3	3030.8	2999.8	2961.1
20°	3147.1	3134.2	3121.3	3123.8	3098.0	3126.4	3110.9	3103.2	3079.9	3090.3	3110.9
22.5°	3235.0	3216.9	3222.0	3229.8	3247.9	3235.0	3227.2	3235.0	3178.1	3229.8	3157.4
25°	3343.5	3392.6	3377.1	3410.7	3359.0	3392.6	3390.0	3340.9	3371.9	3351.2	3335.7
27.5°	3524.3	3498.5	3521.8	3480.4	3516.6	3519.2	3488.2	3570.9	3534.7	3529.5	3519.2
30°	3756.9	3738.8	3723.3	3700.0	3728.5	3705.2	3731.0	3738.8	3705.2	3679.4	3630.3
32.5°	3888.7	3937.8	3955.8	3899.0	3901.6	3914.5	3891.2	3868.0	3888.7	3896.4	3888.7
35°	4074.7	4121.2	4131.5	4087.6	4064.4	4129.0	4082.5	4160.0	4092.8	4095.4	4025.6
37.5°	4291.7	4304.7	4392.5	4343.4	4322.7	4291.7	4377.0	4366.7	4382.2	4258.2	4320.2
40°	4537.2	4583.7	4632.8	4508.8	4506.2	4534.6	4529.5	4588.9	4560.5	4542.4	4498.4
42.5°	4805.9	4904.1	4911.9	4829.2	4777.5	4772.3	4798.2	4929.9	4932.5	4813.7	4762.0
45°	5162.5	5271.0	5242.6	5082.4	5025.5	5017.8	5144.4	5201.2	5250.3	5203.8	5159.9
47.5°	5606.9	5679.3	5658.6	5511.3	5327.9	5379.5	5503.6	5681.8	5630.2	5568.2	5516.5
50°	6082.3	6167.6	6123.7	5976.4	5800.7	5800.7	5953.1	6180.5	6165.0	6043.6	5997.1
52.5°	6609.4	6733.5	6834.2	6624.9	6477.7	6500.9	6741.2	6823.9	6785.1	6699.9	6661.1
55°	7002.2	7239.9	7446.6	7456.9	7464.7	7462.1	7524.1	7606.8	7330.3	7193.4	7053.9
57.5°	6906.6	7356.2	8064.1	8544.7	8686.8	8761.8	8741.1	8358.7	7705.0	7255.4	7301.9
60°	6224.4	6958.3	8100.3	9642.9	10676.4	10573.0	10195.8	8684.2	7498.3	6738.6	6643.0
62.5°	4966.1	5849.8	7493.1	9952.9	12800.3	12769.3	10795.2	7932.4	6247.7	5286.5	5227.1
64°	3741.4	4671.6	6684.4	9872.8	13544.4	13575.4	10642.8	7007.3	4888.6	3741.4	3651.0
65°	2862.9	3725.9	5891.1	9707.4	13384.2	13402.3	10219.0	6051.3	3715.5	2656.2	2558.0
67.5°	1139.5	1586.5	3196.2	7361.3	11492.9	11443.8	7291.6	2927.5	1421.1	925.0	906.9
70°	485.8	604.6	1121.4	3488.2	7694.6	7552.5	3139.4	950.8	527.1	441.8	439.3
72.5°	333.3	369.5	480.6	1077.5	3198.8	3123.8	894.0	441.8	359.2	330.7	330.7
75°	268.7	294.6	348.8	452.2	847.5	816.5	421.2	325.6	286.8	266.1	263.6
77.5°	209.3	235.1	273.9	312.6	387.6	385.0	281.6	245.5	222.2	206.7	201.5
80°	165.4	191.2	217.0	222.2	253.2	248.0	191.2	193.8	180.9	149.9	147.3
82.5°	113.7	155.0	173.1	157.6	149.9	149.9	136.9	136.9	126.6	93.0	85.3
85°	69.8	103.4	108.5	93.0	69.8	69.8	74.9	72.3	67.2	49.1	46.5
87.5°	36.2	49.1	43.9	36.2	23.3	23.3	20.7	15.5	15.5	12.9	12.9
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)