

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: P478918

Luminaire Tested: **IFLD-M-SA4B-735-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478918  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4B-735-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

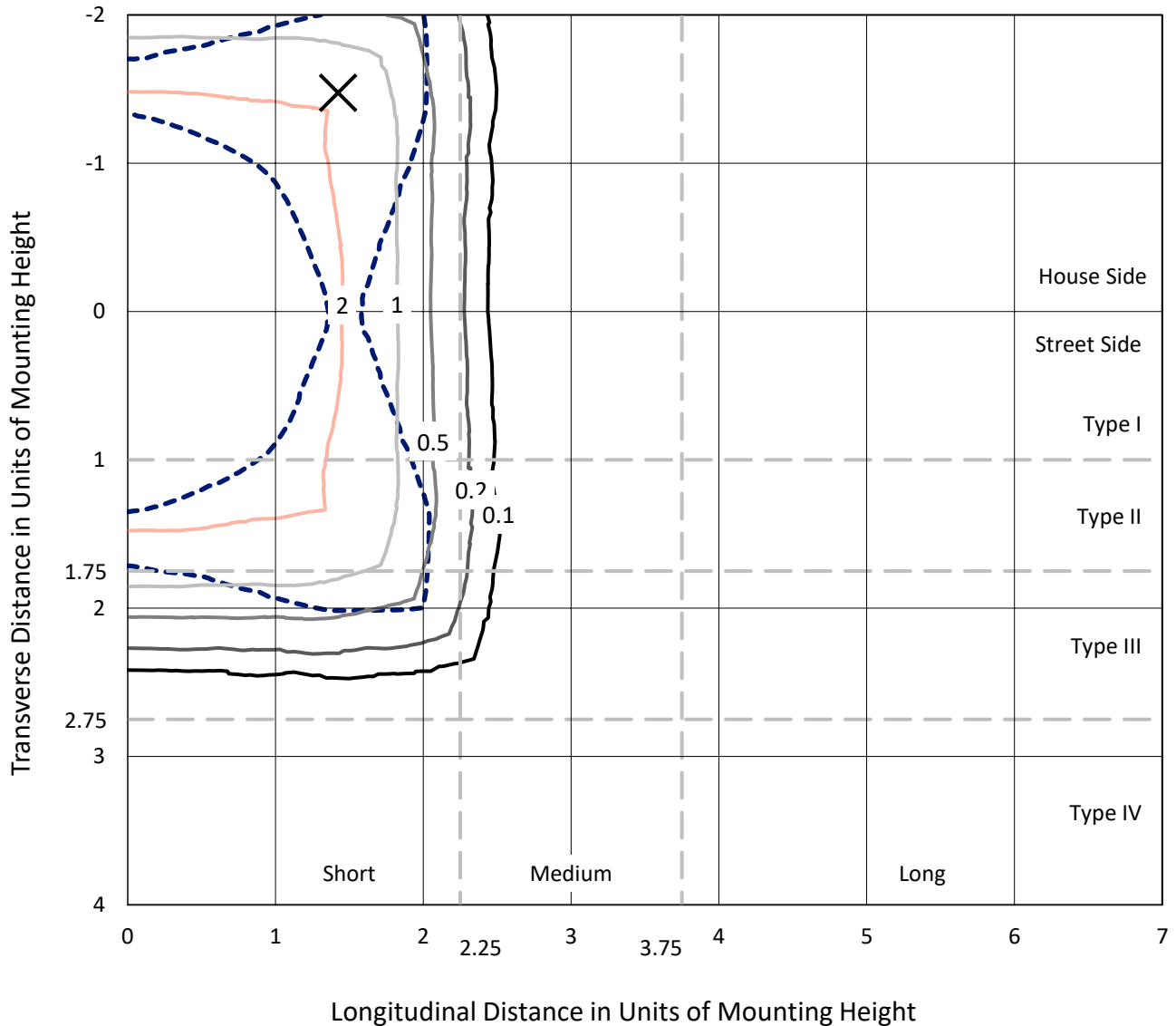
Lumens per Lamp: N/A  
Luminaire Lumens: 22467.4 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 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

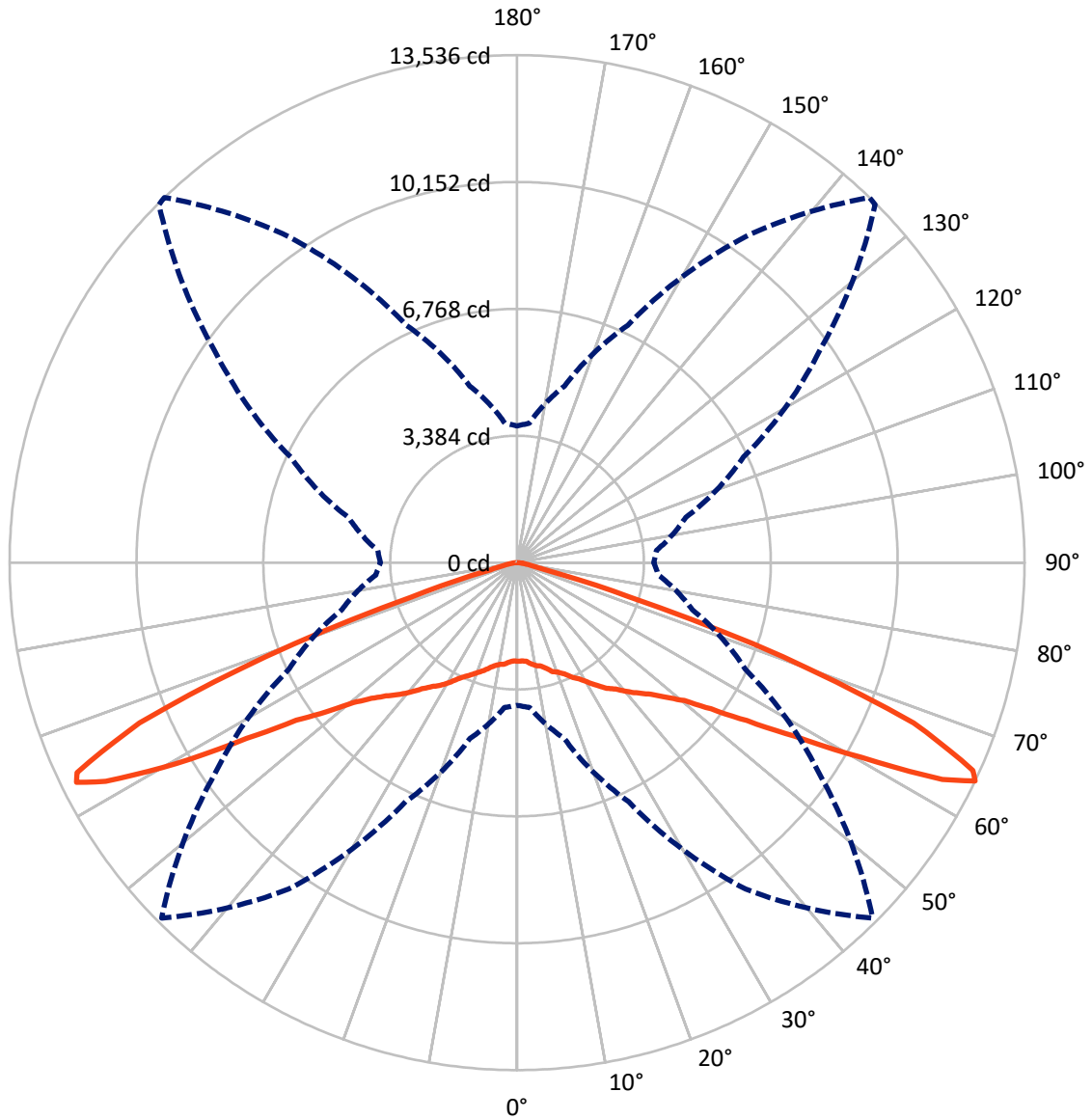
× Max cd  
 - - - 1/2 Max cd



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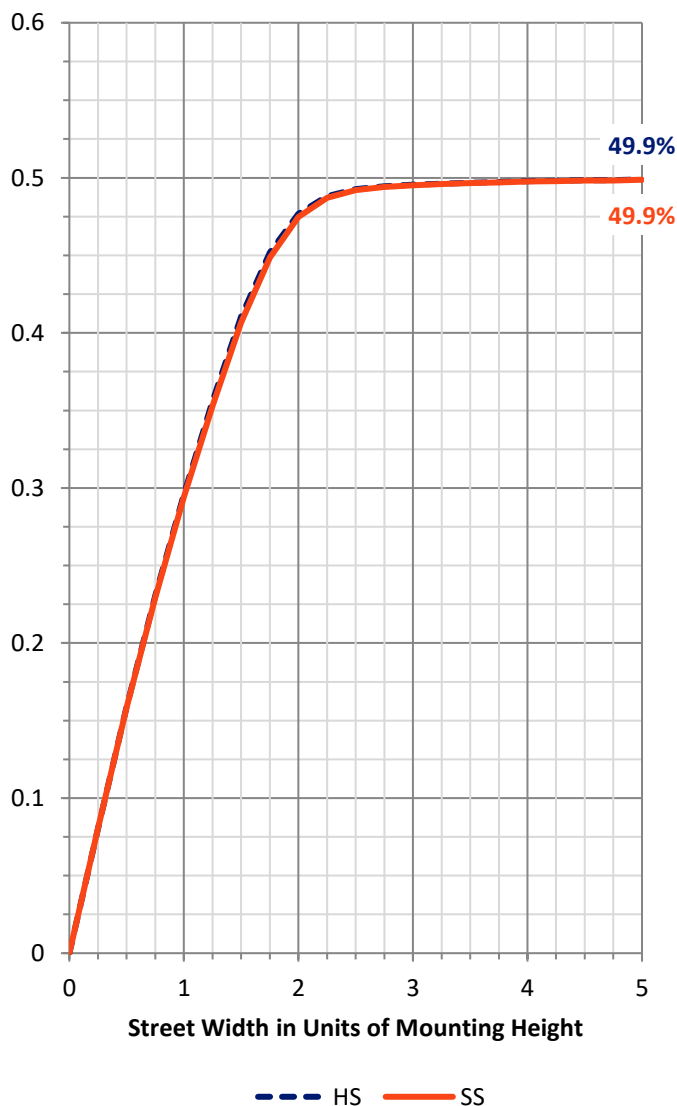
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11244.4	0.0	11244.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11223.0	0.0	11223.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22467.4	0.0	22467.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	258.5	1.2
10°-20°	833.0	3.7
20°-30°	1565.6	7.0
30°-40°	2581.9	11.5
40°-50°	4038.0	18.0
50°-60°	6524.4	29.0
60°-70°	5874.8	26.1
70°-80°	695.9	3.1
80°-90°	95.3	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°	22467.4	100.0
0°-180°	22467.4	100.0

**Coefficient of Utilization**



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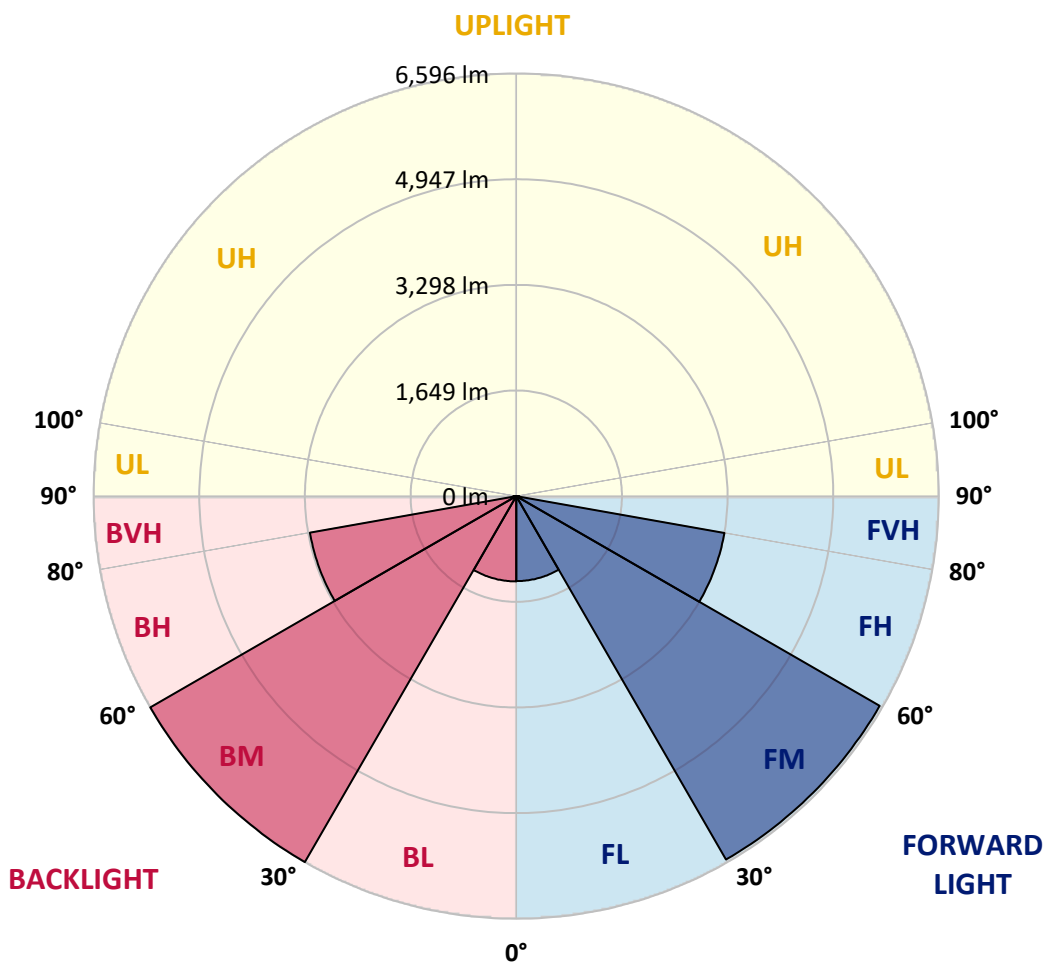
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1326.0	5.9			
FM (30°-60°)	6548.5	29.1			
FH (60°-80°)	3299.6	14.7			G2/5000
FVH (80°-90°)	48.9	0.2			G1/100
BL (0°-30°)	1331.1	5.9	B3/2500		
BM (30°-60°)	6595.8	29.4	B4/8500		
BH (60°-80°)	3271.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	46.4	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°	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5
2.5°	2599.6	2604.7	2651.1	2633.0	2648.5	2620.2	2640.8	2684.6	2633.0	2671.7	2684.6
5°	2627.9	2635.6	2635.6	2653.7	2664.0	2658.8	2671.7	2653.7	2702.6	2682.0	2712.9
7.5°	2730.9	2718.1	2697.5	2712.9	2715.5	2728.4	2741.3	2764.4	2756.7	2738.7	2769.6
10°	2749.0	2738.7	2769.6	2772.2	2759.3	2749.0	2761.9	2761.9	2785.0	2790.2	2790.2
12.5°	2779.9	2790.2	2787.6	2808.2	2810.8	2803.1	2823.7	2862.3	2852.0	2859.8	2841.7
15°	2898.4	2885.5	2883.0	2903.6	2937.1	2888.1	2924.2	2921.6	2911.3	2926.7	2885.5
17.5°	3001.5	2960.2	2978.3	3011.8	2998.9	3009.2	3055.6	3014.3	3024.7	3006.6	2993.7
20°	3091.6	3058.1	3060.7	3073.6	3073.6	3104.5	3122.6	3107.1	3096.8	3094.2	3099.4
22.5°	3192.1	3153.5	3156.0	3210.1	3228.2	3217.9	3205.0	3230.8	3235.9	3215.3	3238.5
25°	3266.8	3308.1	3320.9	3346.7	3308.1	3336.4	3326.1	3375.0	3406.0	3364.7	3393.1
27.5°	3462.6	3444.6	3478.1	3475.5	3506.4	3478.1	3496.1	3511.6	3524.5	3527.0	3514.2
30°	3637.8	3645.6	3612.1	3702.2	3630.1	3676.5	3707.4	3715.1	3730.6	3730.6	3691.9
32.5°	3823.3	3807.9	3862.0	3841.4	3828.5	3864.5	3831.1	3936.7	3874.9	3910.9	3867.1
35°	4032.0	4032.0	4052.6	4109.3	4032.0	4008.8	4070.7	4114.5	4114.5	4050.0	4065.5
37.5°	4266.5	4245.8	4271.6	4343.7	4284.5	4207.2	4320.6	4338.6	4325.7	4307.7	4276.8
40°	4431.3	4426.2	4477.7	4573.0	4488.0	4472.6	4493.2	4542.1	4557.6	4575.6	4534.4
42.5°	4709.6	4732.8	4882.2	4859.0	4789.5	4735.4	4730.2	4913.1	4869.3	4823.0	4799.8
45°	5121.8	5101.2	5178.5	5181.1	5090.9	4972.4	4998.1	5165.6	5240.3	5137.3	5175.9
47.5°	5449.0	5459.3	5513.4	5624.2	5415.5	5291.9	5387.2	5657.7	5634.5	5595.9	5631.9
50°	5887.0	5933.4	6103.4	6064.8	5879.3	5727.3	5935.9	6191.0	6219.3	6077.6	6051.9
52.5°	6492.4	6564.6	6657.3	6688.2	6510.5	6456.4	6469.3	6786.1	6716.6	6580.0	6492.4
55°	7023.2	7056.7	7226.7	7481.8	7468.9	7208.7	7358.1	7476.6	7193.2	6912.4	6935.6
57.5°	7249.9	7265.3	7739.4	8249.5	8553.5	8612.8	8442.7	8043.4	7368.4	6827.4	6793.9
60°	6685.7	6832.5	7404.5	8556.1	9944.8	10630.1	9499.1	8107.8	6958.8	6301.8	6252.8
62.5°	5343.4	5351.1	6201.3	7948.1	10810.4	12606.1	9903.5	7502.4	5866.4	5121.8	4926.0
64°	3805.3	3877.4	4853.9	7036.1	10630.1	13410.0	9854.6	6711.4	4835.8	3779.5	3643.0
65°	2730.9	2831.4	3774.4	6108.6	10207.6	13314.6	9707.7	6031.3	3910.9	2885.5	2746.4
67.5°	1004.8	1046.0	1481.4	3055.6	7329.8	11346.3	7693.0	3315.8	1718.4	1223.8	1100.1
70°	466.3	468.9	548.8	1009.9	3205.0	7587.4	3671.3	1244.4	646.7	512.7	476.6
72.5°	342.7	350.4	383.9	466.3	942.9	3212.7	1205.7	510.1	378.7	334.9	327.2
75°	278.2	283.4	293.7	337.5	435.4	860.5	489.5	353.0	301.4	270.5	260.2
77.5°	213.8	213.8	237.0	257.6	288.6	401.9	324.6	280.8	244.8	213.8	206.1
80°	154.6	157.2	185.5	201.0	195.8	265.4	234.4	231.9	201.0	167.5	154.6
82.5°	90.2	97.9	134.0	144.3	139.1	157.2	170.0	180.3	157.2	115.9	105.6
85°	51.5	54.1	77.3	79.9	79.9	74.7	97.9	108.2	105.6	72.1	64.4
87.5°	15.5	15.5	20.6	20.6	23.2	25.8	38.6	46.4	51.5	36.1	33.5
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°	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5	2630.5
2.5°	2671.7	2633.0	2635.6	2645.9	2612.4	2625.3	2664.0	2635.6	2627.9	2612.4	2604.7
5°	2658.8	2700.0	2684.6	2689.7	2682.0	2645.9	2640.8	2664.0	2676.8	2653.7	2700.0
7.5°	2749.0	2730.9	2710.3	2718.1	2700.0	2730.9	2751.6	2705.2	2728.4	2715.5	2689.7
10°	2800.5	2767.0	2782.5	2777.3	2764.4	2795.4	2774.7	2769.6	2749.0	2720.6	2761.9
12.5°	2818.5	2857.2	2883.0	2839.2	2846.9	2831.4	2818.5	2818.5	2795.4	2787.6	2795.4
15°	2898.4	2931.9	2921.6	2955.1	2911.3	2926.7	2942.2	2903.6	2924.2	2867.5	2911.3
17.5°	3045.3	3016.9	3053.0	3009.2	3024.7	3055.6	3006.6	3006.6	3022.1	2991.2	2952.5
20°	3138.0	3125.1	3112.2	3114.8	3089.1	3117.4	3101.9	3094.2	3071.0	3081.3	3101.9
22.5°	3225.6	3207.6	3212.7	3220.5	3238.5	3225.6	3217.9	3225.6	3168.9	3220.5	3148.3
25°	3333.8	3382.8	3367.3	3400.8	3349.3	3382.8	3380.2	3331.2	3362.2	3341.5	3326.1
27.5°	3514.2	3488.4	3511.6	3470.4	3506.4	3509.0	3478.1	3560.5	3524.5	3519.3	3509.0
30°	3746.0	3728.0	3712.5	3689.4	3717.7	3694.5	3720.3	3728.0	3694.5	3668.7	3619.8
32.5°	3877.4	3926.4	3944.4	3887.7	3890.3	3903.2	3880.0	3856.8	3877.4	3885.2	3877.4
35°	4062.9	4109.3	4119.6	4075.8	4052.6	4117.0	4070.7	4147.9	4081.0	4083.5	4014.0
37.5°	4279.3	4292.2	4379.8	4330.9	4310.3	4279.3	4364.4	4354.1	4369.5	4245.8	4307.7
40°	4524.1	4570.5	4619.4	4495.8	4493.2	4521.5	4516.4	4575.6	4547.3	4529.2	4485.4
42.5°	4792.0	4889.9	4897.7	4815.2	4763.7	4758.5	4784.3	4915.7	4918.3	4799.8	4748.2
45°	5147.6	5255.8	5227.4	5067.7	5011.0	5003.3	5129.5	5186.2	5235.2	5188.8	5145.0
47.5°	5590.7	5662.8	5642.2	5495.4	5312.5	5364.0	5487.7	5665.4	5613.9	5552.1	5500.5
50°	6064.8	6149.8	6106.0	5959.1	5783.9	5783.9	5935.9	6162.7	6147.2	6026.1	5979.7
52.5°	6590.3	6714.0	6814.5	6605.8	6458.9	6482.1	6721.7	6804.2	6765.5	6680.5	6641.9
55°	6981.9	7219.0	7425.1	7435.4	7443.1	7440.5	7502.4	7584.8	7309.1	7172.6	7033.5
57.5°	6886.6	7334.9	8040.8	8520.0	8661.7	8736.5	8715.8	8334.5	7682.7	7234.4	7280.8
60°	6206.5	6938.1	8076.9	9615.0	10645.5	10542.5	10166.3	8659.2	7476.6	6719.2	6623.8
62.5°	4951.8	5832.9	7471.5	9924.2	12763.3	12732.4	10764.0	7909.4	6229.6	5271.2	5212.0
64°	3730.6	4658.1	6665.1	9844.3	13505.3	13536.2	10612.0	6987.1	4874.5	3730.6	3640.4
65°	2854.6	3715.1	5874.1	9679.4	13345.6	13363.6	10189.5	6033.8	3704.8	2648.5	2550.6
67.5°	1136.2	1581.9	3187.0	7340.1	11459.7	11410.7	7270.5	2919.0	1417.0	922.3	904.3
70°	484.4	602.9	1118.1	3478.1	7672.4	7530.7	3130.3	948.1	525.6	440.6	438.0
72.5°	332.4	368.4	479.2	1074.3	3189.5	3114.8	891.4	440.6	358.1	329.8	329.8
75°	267.9	293.7	347.8	450.9	845.0	814.1	419.9	324.6	286.0	265.4	262.8
77.5°	208.7	234.4	273.1	311.7	386.5	383.9	280.8	244.8	221.6	206.1	201.0
80°	164.9	190.7	216.4	221.6	252.5	247.3	190.7	193.2	180.3	149.4	146.9
82.5°	113.4	154.6	172.6	157.2	149.4	149.4	136.5	136.5	126.2	92.7	85.0
85°	69.6	103.1	108.2	92.7	69.6	69.6	74.7	72.1	67.0	49.0	46.4
87.5°	36.1	49.0	43.8	36.1	23.2	23.2	20.6	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)