

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: P481252

Luminaire Tested: **IFLD-S-SA6A-735-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481252  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6A-735-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

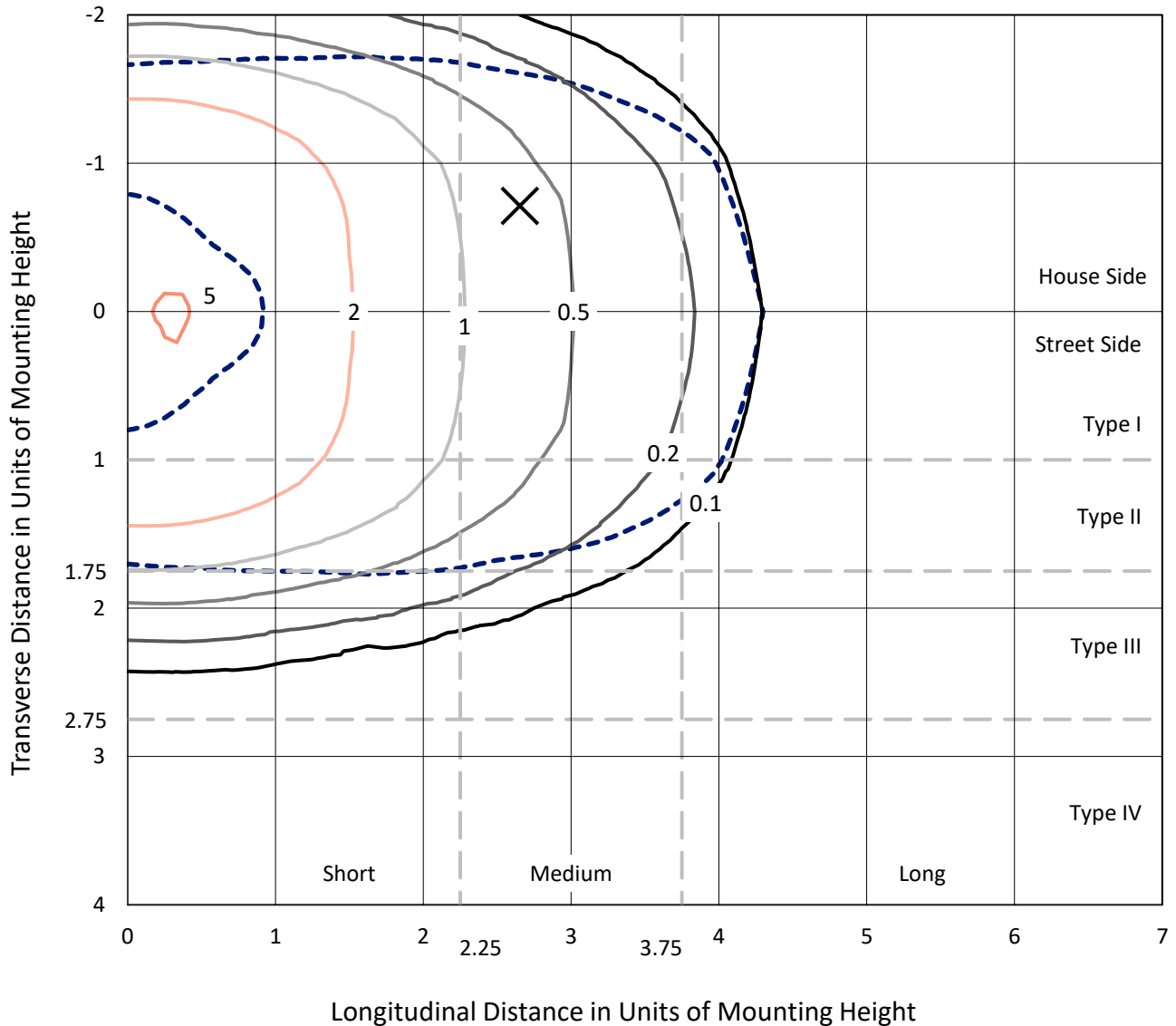
Lumens per Lamp: N/A  
Luminaire Lumens: 27419.5 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 189.6  
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

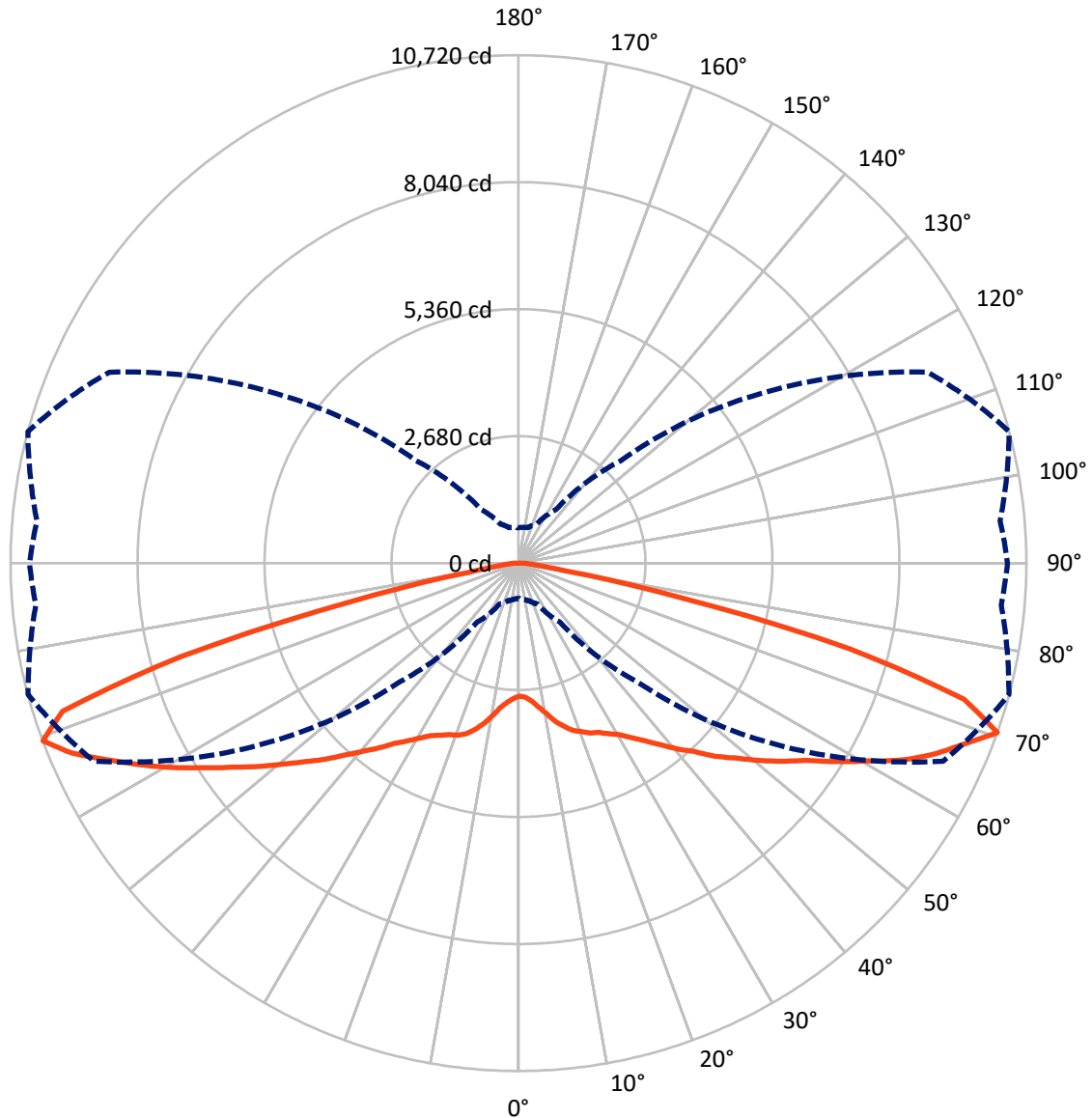
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type 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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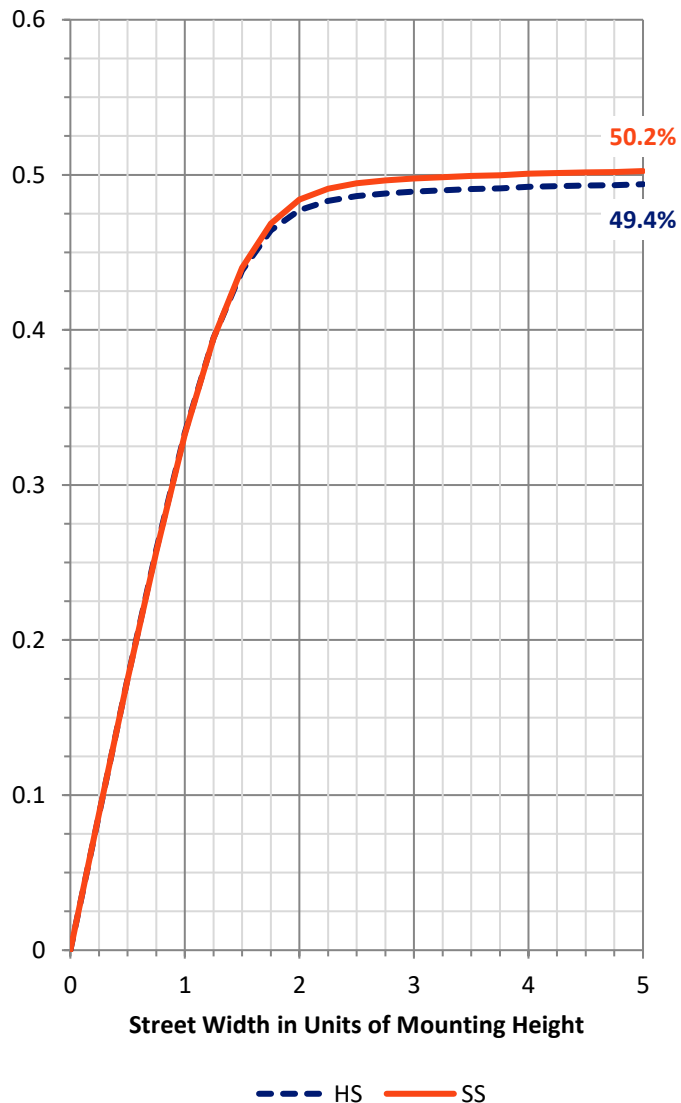
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13612.2	0.0	13612.2
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	13807.3	0.0	13807.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	27419.5	0.0	27419.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	279.5	1.0
10°-20°	951.5	3.5
20°-30°	1842.5	6.7
30°-40°	3116.5	11.4
40°-50°	4971.7	18.1
50°-60°	6805.2	24.8
60°-70°	6414.3	23.4
70°-80°	2825.7	10.3
80°-90°	212.6	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°	27419.5	100.0
0°-180°	27419.5	100.0

**Coefficient of Utilization**

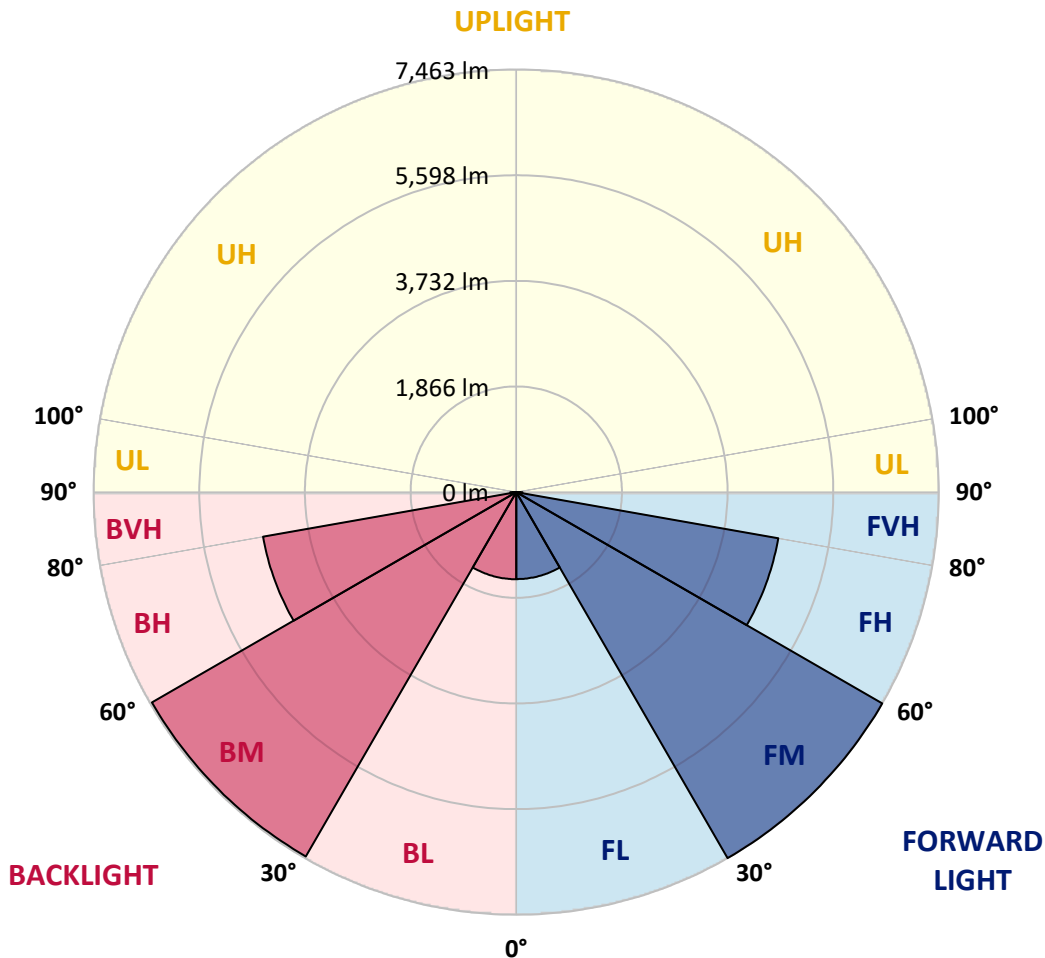


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1535.9	5.6			
FM (30°-60°)	7463.3	27.2			
FH (60°-80°)	4699.4	17.1			G2/5000
FVH (80°-90°)	108.6	0.4			G2/225
BL (0°-30°)	1537.6	5.6	B3/2500		
BM (30°-60°)	7430.0	27.1	B4/8500		
BH (60°-80°)	4540.6	16.6	B4/5000		G4/5000
BVH (80°-90°)	104.0	0.4			G2/225
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°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2.5°	2790.0	2790.0	2787.0	2801.8	2816.6	2822.5	2834.3	2837.3	2855.0	2840.2	2869.8
5°	2781.1	2778.2	2801.8	2837.3	2837.3	2875.7	2899.4	2931.9	2940.7	2958.5	2964.4
7.5°	2843.2	2837.3	2825.5	2863.9	2896.4	2955.5	2988.0	3044.2	3064.9	3088.5	3115.1
10°	2881.6	2881.6	2869.8	2937.8	2967.3	3047.1	3118.1	3174.2	3254.0	3280.6	3283.6
12.5°	2887.5	2896.4	2931.9	3020.5	3103.3	3206.7	3259.9	3366.3	3446.1	3496.4	3514.1
15°	2976.2	2958.5	2996.9	3118.1	3239.2	3330.9	3425.4	3502.3	3617.5	3682.6	3723.9
17.5°	3056.0	3038.3	3109.2	3254.0	3378.1	3520.0	3602.8	3685.5	3768.3	3827.4	3830.3
20°	3183.1	3197.9	3259.9	3416.6	3579.1	3703.2	3797.8	3812.6	3854.0	3939.7	3924.9
22.5°	3339.7	3327.9	3457.9	3629.4	3806.7	3910.1	3963.3	3924.9	3904.2	3995.8	4016.5
25°	3496.4	3531.8	3650.1	3809.6	4022.4	4161.4	4176.1	4069.7	3992.9	4025.4	4016.5
27.5°	3735.8	3741.7	3865.8	4055.0	4270.7	4391.9	4383.0	4232.3	4084.5	4087.5	4093.4
30°	4043.1	4013.6	4149.5	4321.0	4533.7	4643.1	4657.9	4442.1	4244.1	4185.0	4199.8
32.5°	4338.7	4374.1	4492.4	4687.4	4844.1	4906.1	4873.6	4681.5	4424.4	4344.6	4353.5
35°	4717.0	4711.1	4873.6	5039.1	5157.4	5169.2	5142.6	4861.8	4619.5	4516.0	4474.6
37.5°	5121.9	5175.1	5281.5	5417.4	5541.6	5547.5	5402.7	5178.0	4879.5	4708.1	4758.4
40°	5574.1	5633.2	5710.0	5908.1	5999.7	5905.1	5757.3	5452.9	5142.6	4991.8	5015.5
42.5°	5973.1	5999.7	6156.3	6389.8	6434.1	6392.8	6174.1	5804.6	5444.0	5278.5	5290.4
45°	6339.6	6375.0	6579.0	6788.8	6892.2	6821.3	6567.1	6215.4	5795.7	5653.9	5597.7
47.5°	6676.5	6747.4	6945.4	7161.2	7320.8	7326.7	7013.4	6587.8	6144.5	5958.3	5955.3
50°	6904.1	7007.5	7202.6	7447.9	7681.4	7773.0	7459.7	7001.6	6525.8	6327.7	6307.1
52.5°	7028.2	7134.6	7329.7	7710.9	7971.0	8112.9	7965.1	7388.8	6972.0	6765.2	6732.6
55°	6877.5	6948.4	7267.6	7802.5	8204.5	8438.0	8340.4	7923.7	7415.4	7246.9	7276.5
57.5°	6236.1	6383.9	6777.0	7444.9	8198.6	8771.9	8763.1	8429.1	7926.7	7767.1	7773.0
60°	5133.7	5257.8	5742.5	6676.5	7867.6	8907.9	9221.2	8919.7	8500.0	8313.8	8307.9
62.5°	3623.5	3780.1	4341.6	5361.3	6892.2	8718.7	9747.3	9537.4	9061.6	8925.6	8975.9
65°	2027.5	2122.1	2642.2	3564.3	5251.9	7678.4	9841.8	10178.8	9632.0	9425.1	9434.0
67.5°	1084.7	1120.1	1362.5	1870.8	3212.6	5919.9	8887.2	10548.2	10249.7	9892.1	9835.9
70°	744.8	756.6	818.7	957.6	1519.1	3540.7	6703.1	9889.1	10713.7	10226.1	10320.6
72.5°	629.5	623.6	638.4	653.2	795.0	1584.2	3933.8	7610.4	10113.7	9930.5	9895.0
75°	546.8	543.8	549.7	534.9	552.7	697.5	1740.8	4743.6	7403.5	8263.6	8396.6
77.5°	452.2	455.1	458.1	443.3	437.4	461.1	700.5	2083.6	3644.1	4022.4	4338.7
80°	342.8	348.7	372.4	357.6	334.0	336.9	413.8	697.5	1046.2	948.7	978.3
82.5°	233.5	236.4	286.7	269.0	251.2	227.6	266.0	360.6	407.9	310.3	271.9
85°	165.5	162.6	186.2	171.4	159.6	115.3	159.6	203.9	245.3	153.7	138.9
87.5°	38.4	38.4	76.8	62.1	59.1	47.3	62.1	79.8	106.4	68.0	62.1
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°	145°	155°	165°	175°	180°
0°	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7	2807.7
2.5°	2860.9	2834.3	2834.3	2828.4	2804.8	2798.9	2778.2	2784.1	2769.3	2754.5
5°	2961.4	2926.0	2926.0	2875.7	2828.4	2822.5	2798.9	2798.9	2775.2	2781.1
7.5°	3100.3	3067.8	3014.6	2970.3	2905.3	2878.7	2834.3	2828.4	2822.5	2810.7
10°	3265.8	3224.5	3171.3	3079.6	3026.4	2976.2	2931.9	2869.8	2855.0	2858.0
12.5°	3490.5	3425.4	3310.2	3230.4	3162.4	3097.4	3032.3	2940.7	2920.0	2928.9
15°	3650.1	3567.3	3452.0	3422.5	3330.9	3251.1	3144.7	3041.2	3005.7	2996.9
17.5°	3780.1	3712.1	3644.1	3599.8	3525.9	3428.4	3280.6	3162.4	3082.6	3073.7
20°	3886.5	3797.8	3783.0	3809.6	3718.0	3653.0	3472.7	3327.9	3221.5	3177.2
22.5°	3951.5	3895.4	3936.7	3960.4	3954.5	3845.1	3658.9	3490.5	3357.5	3316.1
25°	4022.4	3957.4	4105.2	4185.0	4205.7	4025.4	3880.6	3658.9	3528.9	3502.3
27.5°	4057.9	4081.6	4253.0	4421.4	4406.7	4267.8	4072.7	3874.7	3771.2	3723.9
30°	4161.4	4199.8	4459.9	4649.0	4652.0	4516.0	4368.2	4143.6	4028.4	4007.7
32.5°	4347.5	4394.8	4672.7	4873.6	4909.1	4805.7	4657.9	4519.0	4400.7	4353.5
35°	4489.4	4610.6	4923.9	5107.1	5201.7	5139.6	5056.9	4912.1	4787.9	4746.5
37.5°	4693.3	4861.8	5163.3	5411.5	5517.9	5512.0	5450.0	5293.3	5189.9	5154.4
40°	4985.9	5154.4	5429.3	5757.3	5955.3	5946.5	5911.0	5789.8	5636.2	5618.4
42.5°	5296.3	5435.2	5792.8	6168.1	6451.9	6422.3	6327.7	6185.9	6079.5	6055.8
45°	5597.7	5813.5	6144.5	6626.2	6839.0	6912.9	6800.6	6558.3	6437.1	6422.3
47.5°	5976.0	6147.5	6561.2	6992.7	7309.0	7320.8	7128.7	6904.1	6682.4	6729.7
50°	6313.0	6540.5	6960.2	7433.1	7811.4	7675.4	7430.1	7149.4	6989.8	6927.7
52.5°	6673.5	6951.4	7439.0	7920.8	8130.6	7994.6	7595.7	7282.4	7040.0	7013.4
55°	7199.6	7344.4	7982.8	8352.3	8420.2	8133.6	7545.4	7102.1	6788.8	6712.0
57.5°	7734.6	7903.0	8461.6	8780.8	8709.9	8056.7	7220.3	6534.6	6123.8	6014.5
60°	8275.4	8482.3	8952.2	9244.8	8878.3	7527.7	6301.1	5417.4	4938.7	4841.1
62.5°	8878.3	9147.3	9567.0	9670.4	8378.9	6481.4	5000.7	3910.1	3425.4	3262.9
65°	9413.3	9688.1	10205.4	9581.8	7317.8	4835.2	3233.3	2234.4	1876.7	1746.7
67.5°	9853.7	10164.0	10418.2	8479.3	5358.3	2831.4	1684.6	1176.3	1043.3	996.0
70°	10202.4	10719.6	9531.5	6233.2	3061.9	1380.2	910.3	774.3	756.6	744.8
72.5°	9898.0	9830.0	7116.9	3596.9	1341.8	759.6	659.1	638.4	635.4	638.4
75°	8095.1	7220.3	4255.9	1563.5	673.9	549.7	546.8	537.9	552.7	552.7
77.5°	3927.9	3434.3	1779.2	670.9	443.3	431.5	446.3	446.3	446.3	446.3
80°	910.3	1007.8	635.4	407.9	322.2	322.2	354.7	357.6	342.8	336.9
82.5°	310.3	413.8	348.7	257.1	212.8	239.4	269.0	274.9	227.6	230.5
85°	153.7	242.4	189.2	147.8	109.4	147.8	174.4	183.2	156.6	150.7
87.5°	70.9	106.4	70.9	50.2	38.4	53.2	50.2	41.4	23.6	23.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)