

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: P479232

Luminaire Tested: **IFLD-M-SA4D-727-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479232  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4D-727-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (64) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

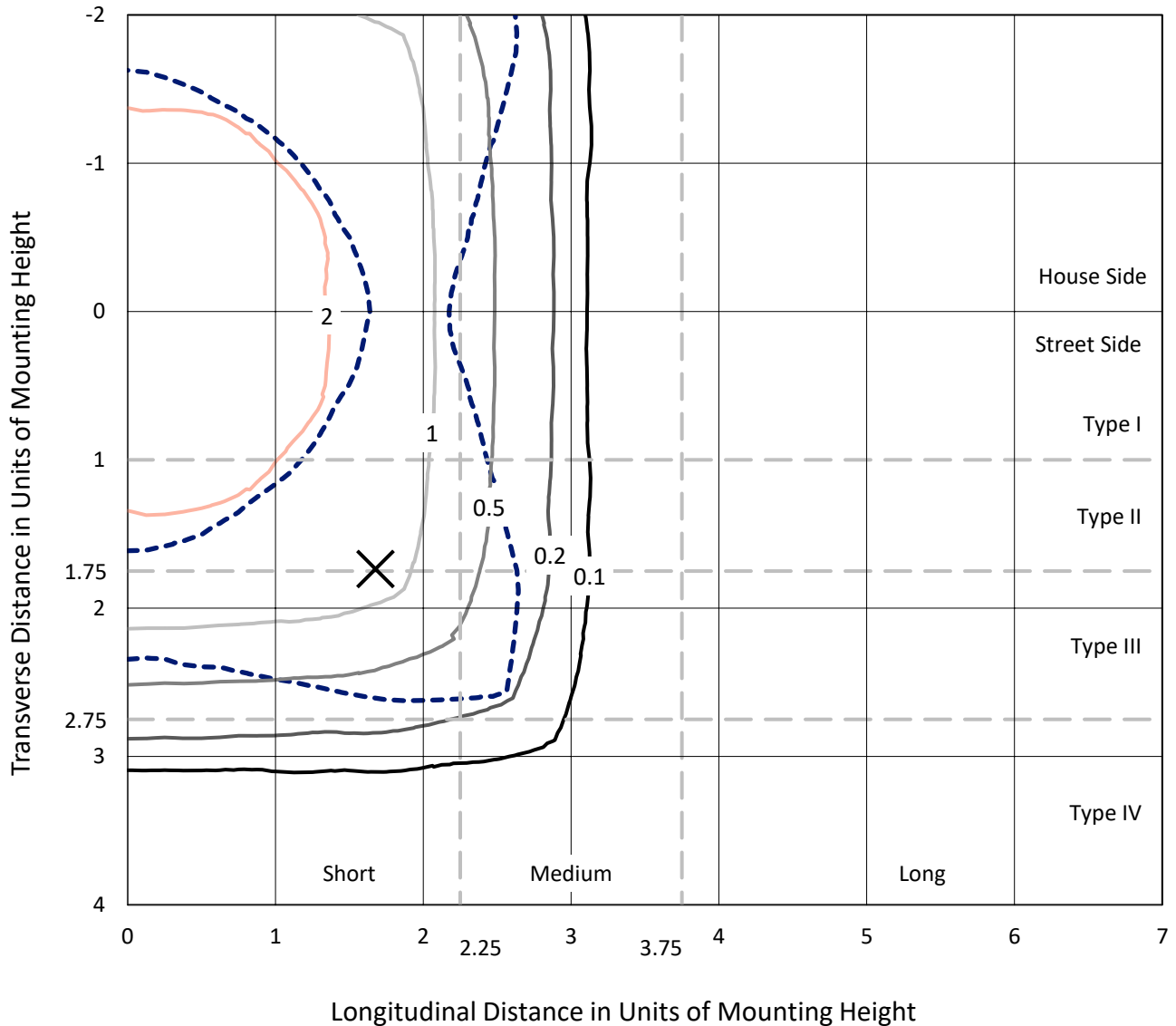
Lumens per Lamp: N/A  
Luminaire Lumens: 26408.9 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

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

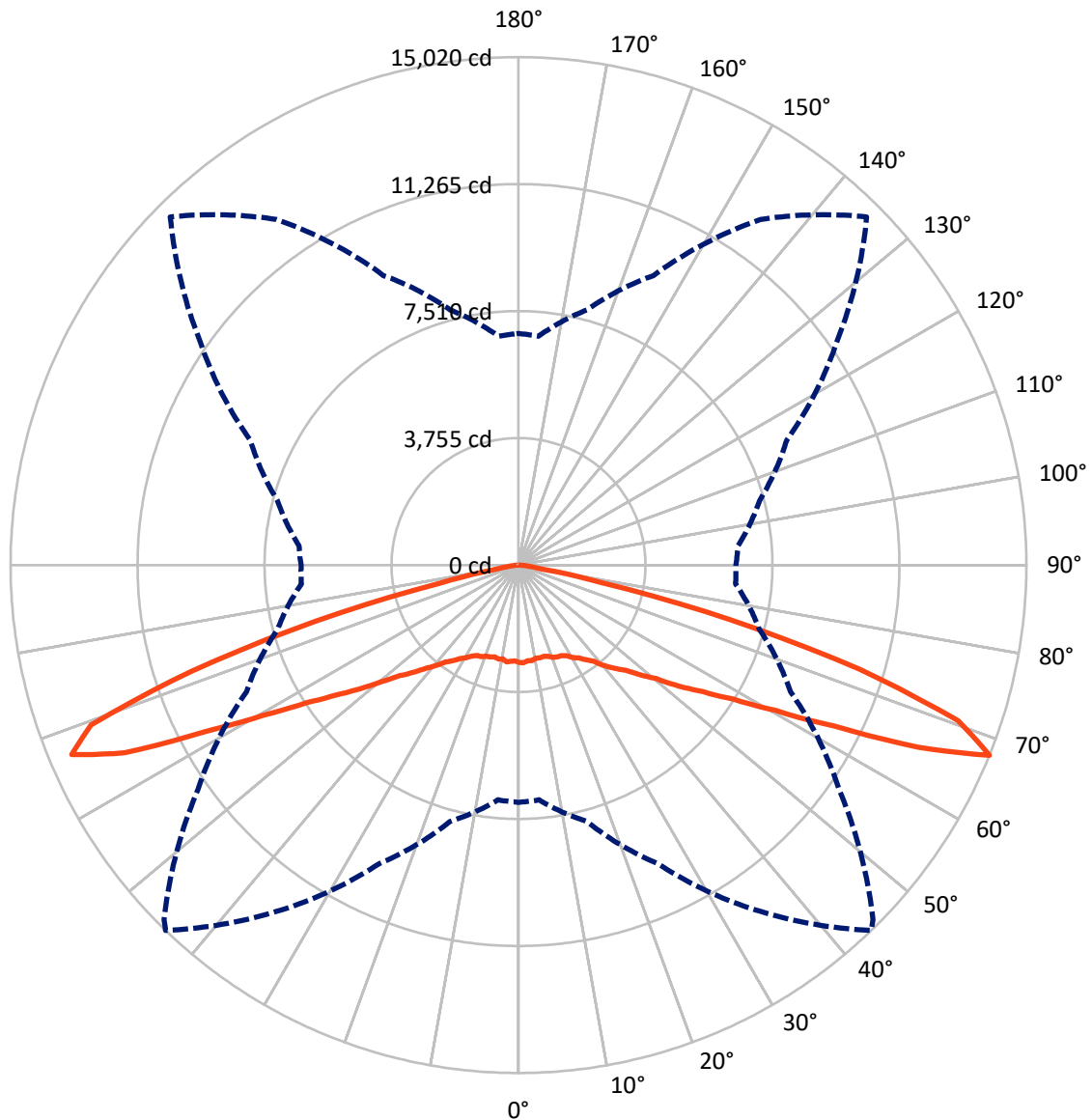
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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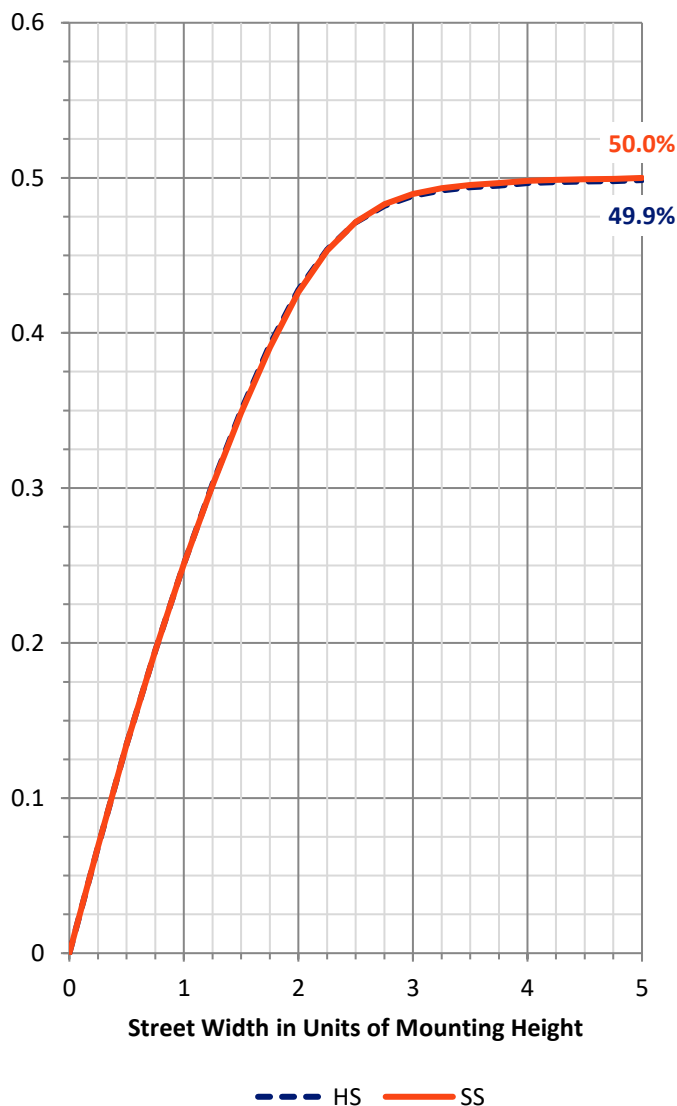
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13170.6	0.0	13170.6
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	13238.3	0.0	13238.3
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	26408.9	0.0	26408.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	273.0	1.0
10°-20°	797.5	3.0
20°-30°	1356.2	5.1
30°-40°	2150.3	8.1
40°-50°	3506.3	13.3
50°-60°	5988.2	22.7
60°-70°	9108.0	34.5
70°-80°	3070.0	11.6
80°-90°	159.4	0.6
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°	26408.9	100.0
0°-180°	26408.9	100.0

**Coefficient of Utilization**



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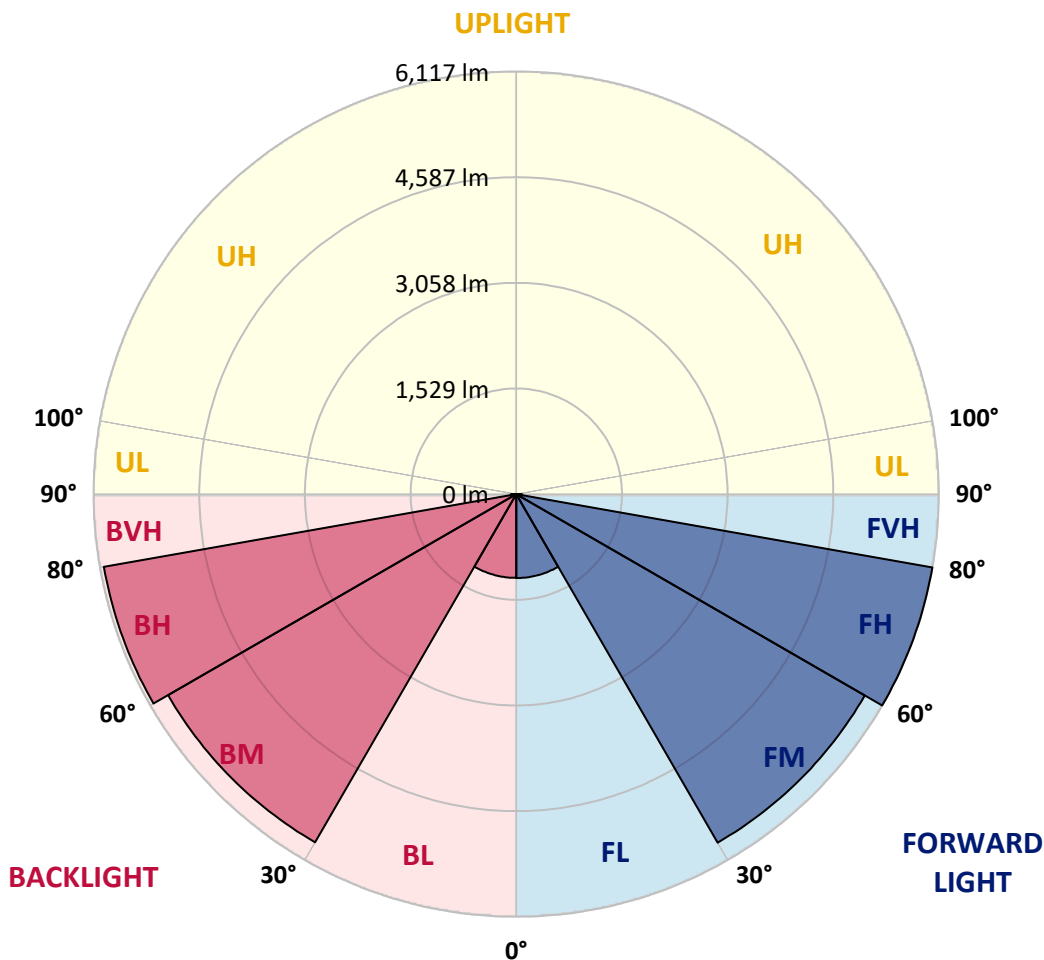
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1214.6	4.6			
FM (30°-60°)	5825.6	22.1			
FH (60°-80°)	6116.6	23.2			G3/7500
FVH (80°-90°)	81.5	0.3			G1/100
BL (0°-30°)	1212.1	4.6	B3/2500		
BM (30°-60°)	5819.3	22.0	B4/8500		
BH (60°-80°)	6061.4	23.0	B5		G3/7500
BVH (80°-90°)	77.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7
2.5°	2818.4	2851.6	2875.7	2872.7	2881.7	2890.7	2878.7	2896.8	2884.7	2905.8	2917.9
5°	2872.7	2863.6	2866.6	2848.5	2890.7	2842.5	2842.5	2866.6	2896.8	2860.6	2881.7
7.5°	2839.5	2833.5	2818.4	2845.5	2854.6	2854.6	2878.7	2833.5	2884.7	2896.8	2899.8
10°	2803.3	2770.2	2815.4	2842.5	2848.5	2800.3	2821.4	2833.5	2818.4	2833.5	2842.5
12.5°	2773.2	2791.3	2791.3	2791.3	2782.2	2815.4	2836.5	2833.5	2803.3	2830.5	2782.2
15°	2770.2	2761.1	2788.3	2812.4	2797.3	2803.3	2812.4	2839.5	2782.2	2794.3	2794.3
17.5°	2767.2	2779.2	2788.3	2785.2	2836.5	2836.5	2827.4	2809.4	2854.6	2830.5	2797.3
20°	2779.2	2770.2	2794.3	2803.3	2839.5	2911.8	2884.7	2869.6	2845.5	2815.4	2815.4
22.5°	2794.3	2788.3	2821.4	2860.6	2929.9	2948.0	2945.0	2926.9	2884.7	2848.5	2842.5
25°	2848.5	2794.3	2830.5	2905.8	2929.9	2966.1	2990.2	2966.1	2908.8	2917.9	2863.6
27.5°	2929.9	2920.9	2969.1	3020.4	2999.3	3032.4	3011.3	3029.4	3032.4	2987.2	2932.9
30°	3026.4	2999.3	3029.4	3128.9	3137.9	3174.1	3137.9	3089.7	3104.8	3065.6	3038.4
32.5°	3165.1	3156.0	3213.3	3279.6	3291.7	3273.6	3255.5	3282.6	3219.3	3189.2	3140.9
35°	3255.5	3294.7	3364.0	3415.2	3454.4	3436.3	3445.4	3418.3	3433.3	3370.0	3348.9
37.5°	3523.8	3508.7	3523.8	3611.2	3620.2	3611.2	3620.2	3650.4	3629.3	3575.0	3520.7
40°	3777.0	3752.8	3789.0	3888.5	3882.5	3912.6	3852.3	3885.5	3885.5	3783.0	3761.9
42.5°	3966.9	4048.3	4090.5	4171.8	4202.0	4174.9	4162.8	4168.8	4235.1	4114.6	4069.4
45°	4358.7	4355.7	4482.3	4527.5	4443.1	4437.1	4413.0	4485.3	4530.5	4461.2	4443.1
47.5°	4783.7	4804.8	4877.2	4895.3	4946.5	4853.1	4853.1	4862.1	5021.9	4859.1	4774.7
50°	5166.6	5193.7	5338.4	5480.1	5383.6	5284.1	5323.3	5371.5	5459.0	5305.2	5232.9
52.5°	5630.8	5778.5	5874.9	5950.3	6019.6	5950.3	5859.9	5914.1	6085.9	5881.0	5790.5
55°	6300.0	6417.5	6507.9	6646.6	6703.9	6610.4	6601.4	6595.4	6691.8	6474.8	6351.2
57.5°	7047.5	6999.3	7144.0	7358.0	7566.0	7475.5	7448.4	7454.4	7478.6	7171.1	7077.7
60°	7975.9	8030.2	8202.0	8388.9	8608.9	8735.5	8557.7	8455.2	8476.3	8057.3	7912.6
62.5°	8506.5	8627.0	9015.9	9657.9	10101.0	10495.9	10523.0	9856.9	9410.8	8596.9	7982.0
65°	8250.2	8232.1	8964.6	10152.3	11831.3	12979.7	12807.9	11192.2	9633.8	8340.7	7514.7
67.5°	7017.4	6969.1	7855.4	9739.3	12512.5	15020.4	14824.5	11569.0	8880.2	7379.1	6444.6
70°	4521.5	4509.4	5471.0	7424.3	11171.1	13790.6	13862.9	10508.0	7228.4	5404.7	4479.3
72.5°	1642.8	1742.3	2299.9	3991.0	7587.1	10550.2	10595.4	7780.0	4156.8	2498.9	1841.8
75°	605.9	624.0	726.5	1296.2	3457.4	6477.8	6646.6	3773.9	1477.0	813.9	663.2
77.5°	349.7	352.7	388.8	482.3	1024.9	2529.0	2631.5	1145.4	572.7	434.1	400.9
80°	238.1	235.1	274.3	313.5	409.9	717.4	762.6	479.3	361.7	301.4	253.2
82.5°	138.7	147.7	202.0	223.1	250.2	316.5	322.5	298.4	271.3	223.1	165.8
85°	84.4	69.3	111.5	123.6	144.7	141.7	141.7	162.8	174.8	156.7	93.4
87.5°	21.1	21.1	27.1	30.1	39.2	30.1	33.2	63.3	84.4	78.4	48.2
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°	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7	2884.7
2.5°	2890.7	2881.7	2887.7	2920.9	2899.8	2836.5	2851.6	2884.7	2857.6	2842.5	2839.5
5°	2878.7	2896.8	2875.7	2881.7	2902.8	2851.6	2860.6	2902.8	2884.7	2890.7	2857.6
7.5°	2881.7	2890.7	2872.7	2845.5	2845.5	2887.7	2863.6	2869.6	2842.5	2887.7	2827.4
10°	2863.6	2839.5	2818.4	2833.5	2827.4	2815.4	2806.3	2824.4	2797.3	2836.5	2794.3
12.5°	2809.4	2815.4	2809.4	2803.3	2815.4	2845.5	2797.3	2803.3	2761.1	2767.2	2788.3
15°	2788.3	2806.3	2800.3	2833.5	2848.5	2803.3	2839.5	2803.3	2770.2	2752.1	2785.2
17.5°	2797.3	2824.4	2815.4	2839.5	2812.4	2845.5	2851.6	2836.5	2797.3	2782.2	2797.3
20°	2806.3	2797.3	2809.4	2851.6	2890.7	2857.6	2857.6	2848.5	2812.4	2791.3	2791.3
22.5°	2827.4	2812.4	2830.5	2863.6	2875.7	2926.9	2881.7	2860.6	2800.3	2746.1	2797.3
25°	2869.6	2878.7	2890.7	2878.7	2945.0	2939.0	2932.9	2917.9	2824.4	2827.4	2818.4
27.5°	2951.0	2899.8	2914.9	2987.2	2996.2	3020.4	2990.2	3017.3	2917.9	2920.9	2860.6
30°	3050.5	2996.2	3044.5	3107.8	3104.8	3150.0	3134.9	3140.9	3071.6	3032.4	2951.0
32.5°	3159.0	3153.0	3183.1	3222.3	3237.4	3261.5	3258.5	3258.5	3216.3	3113.8	3128.9
35°	3279.6	3321.8	3358.0	3400.2	3406.2	3436.3	3394.1	3400.2	3358.0	3282.6	3306.7
37.5°	3517.7	3514.7	3553.9	3605.1	3611.2	3587.1	3620.2	3605.1	3547.9	3496.6	3457.4
40°	3795.0	3734.8	3770.9	3891.5	3900.5	3858.3	3855.3	3852.3	3810.1	3698.6	3674.5
42.5°	4036.2	4114.6	4108.5	4147.7	4120.6	4099.5	4174.9	4132.7	4099.5	3981.9	3960.8
45°	4346.7	4370.8	4449.2	4575.8	4446.1	4446.1	4497.4	4464.2	4446.1	4358.7	4277.3
47.5°	4732.5	4753.6	4910.4	4919.4	4835.0	4777.7	4937.5	4943.5	4868.1	4801.8	4702.4
50°	5184.7	5193.7	5335.4	5480.1	5386.6	5278.1	5440.9	5504.2	5335.4	5244.9	5121.4
52.5°	5682.0	5654.9	5772.4	6043.7	5953.3	5920.2	6095.0	6110.1	5881.0	5739.3	5772.4
55°	6254.7	6218.6	6538.1	6722.0	6664.7	6604.4	6682.8	6719.0	6535.1	6303.0	6384.4
57.5°	6996.3	7014.4	7174.1	7355.0	7448.4	7463.5	7499.7	7463.5	7276.6	7041.5	6966.1
60°	7737.8	7792.1	8102.5	8443.1	8473.3	8738.6	8690.3	8509.5	8244.2	7909.6	7924.7
62.5°	8012.1	7966.9	8467.3	9299.2	10007.6	10492.9	10278.9	9636.8	9021.9	8413.0	8458.2
65°	7460.5	7572.0	8253.2	9555.4	11092.7	13012.9	11873.5	10098.0	8856.1	8069.4	7982.0
67.5°	6429.6	6514.0	7379.1	8753.6	11481.6	14562.2	12476.3	9446.9	7810.1	6791.3	6845.6
70°	4479.3	4521.5	5368.5	7171.1	10411.5	13742.3	11255.5	7255.5	5392.6	4298.4	4358.7
72.5°	1802.6	1905.1	2462.7	4319.5	7686.6	10441.7	7578.0	3807.1	2236.6	1663.9	1510.2
75°	666.2	669.2	786.7	1486.1	3650.4	6562.2	3418.3	1223.8	714.4	584.8	557.7
77.5°	385.8	382.8	409.9	536.6	1058.0	2562.2	970.6	479.3	388.8	349.7	334.6
80°	241.1	238.1	280.3	355.7	464.2	702.3	409.9	298.4	262.2	226.1	226.1
82.5°	153.7	156.7	220.0	262.2	283.3	310.5	238.1	211.0	195.9	129.6	126.6
85°	99.5	90.4	153.7	174.8	156.7	138.7	132.6	111.5	102.5	63.3	69.3
87.5°	45.2	48.2	78.4	87.4	57.3	33.2	33.2	24.1	24.1	15.1	15.1
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)