

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: P478810

Luminaire Tested: **IFLD-L-SA8A-722-U-5NQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P478810  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8A-722-U-5NQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5NQ distribution lens  
Light Source: (128) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

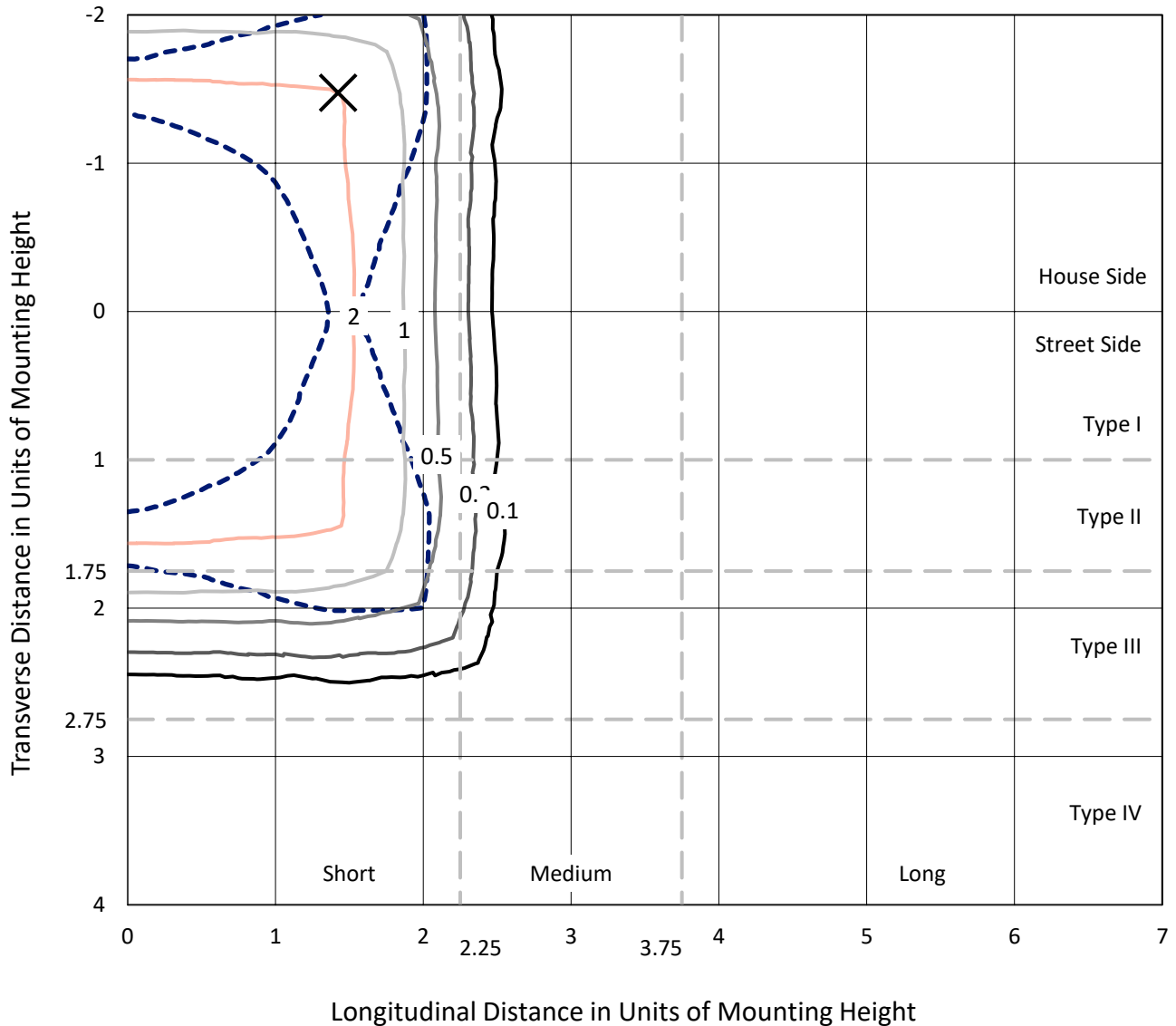
Lumens per Lamp: N/A  
Luminaire Lumens: 25166.9 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 247.8  
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

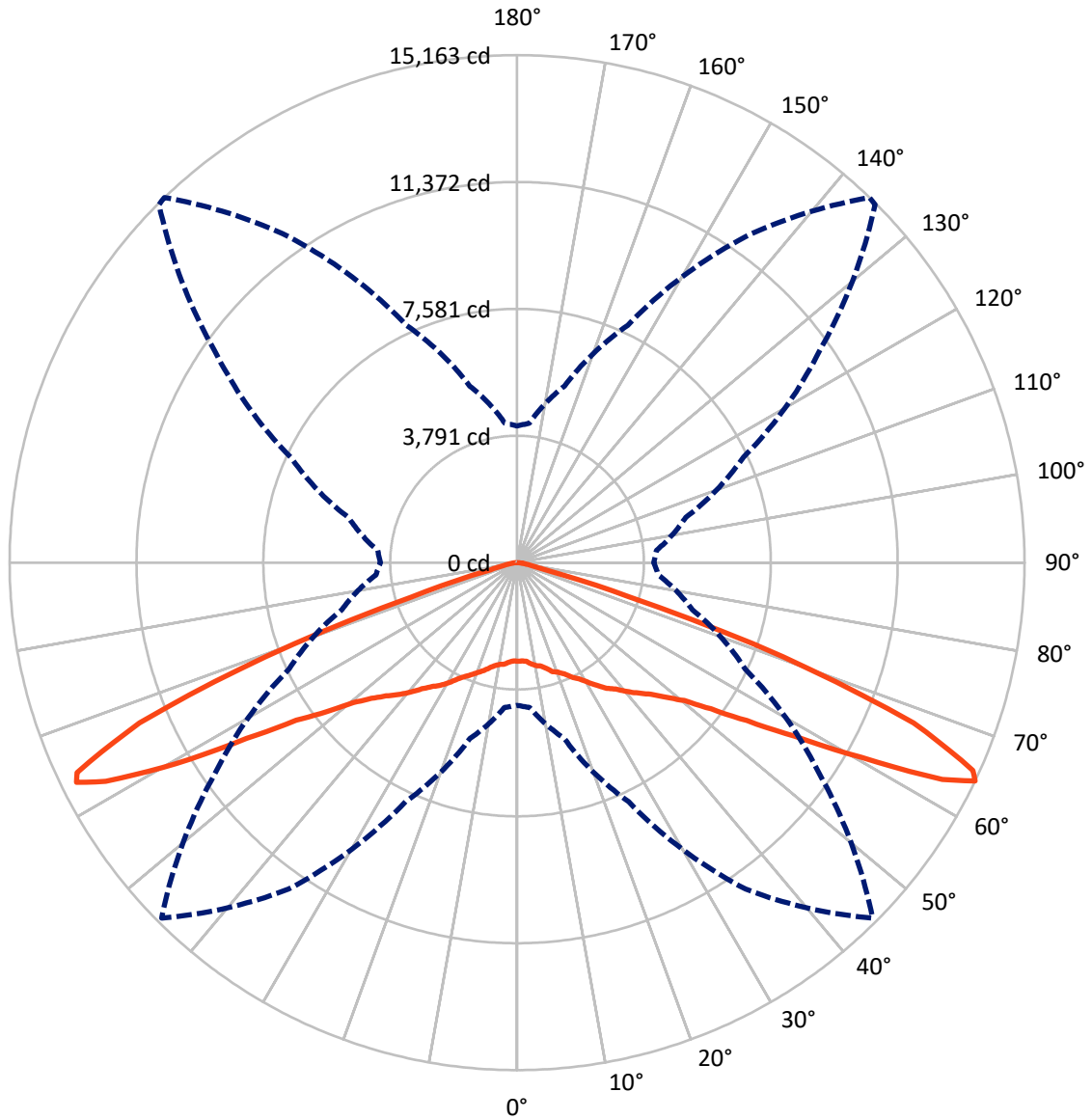
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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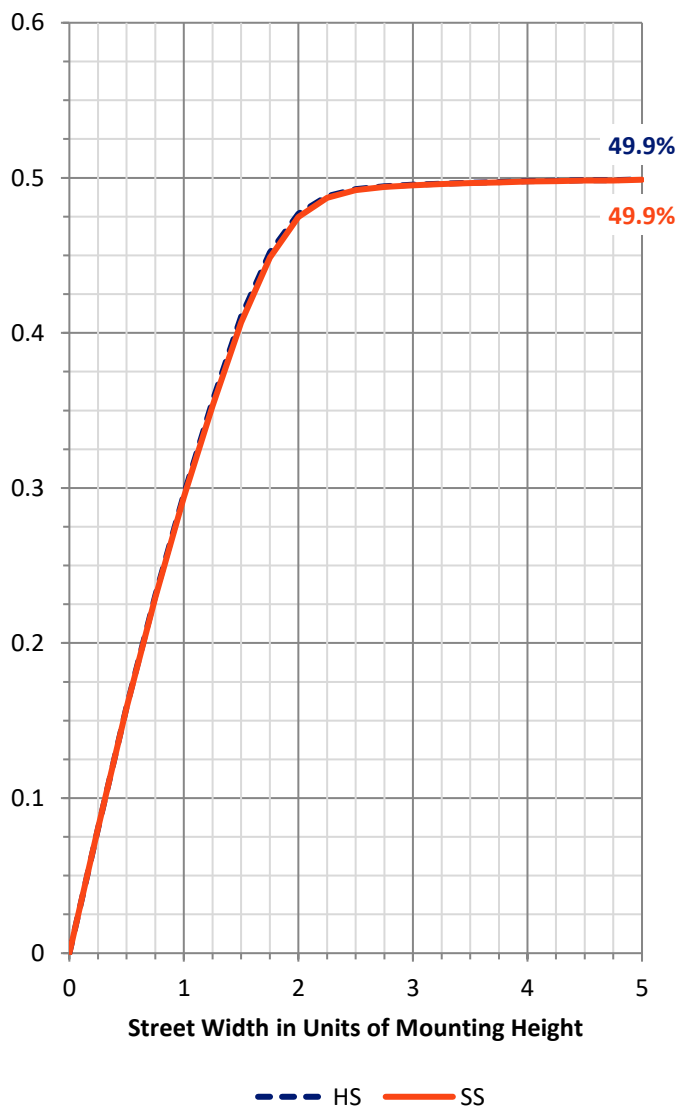
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12595.4	0.0	12595.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12571.4	0.0	12571.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25166.9	0.0	25166.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	289.5	1.2
10°-20°	933.1	3.7
20°-30°	1753.7	7.0
30°-40°	2892.2	11.5
40°-50°	4523.2	18.0
50°-60°	7308.3	29.0
60°-70°	6580.7	26.1
70°-80°	779.5	3.1
80°-90°	106.7	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°	25166.9	100.0
0°-180°	25166.9	100.0

**Coefficient of Utilization**



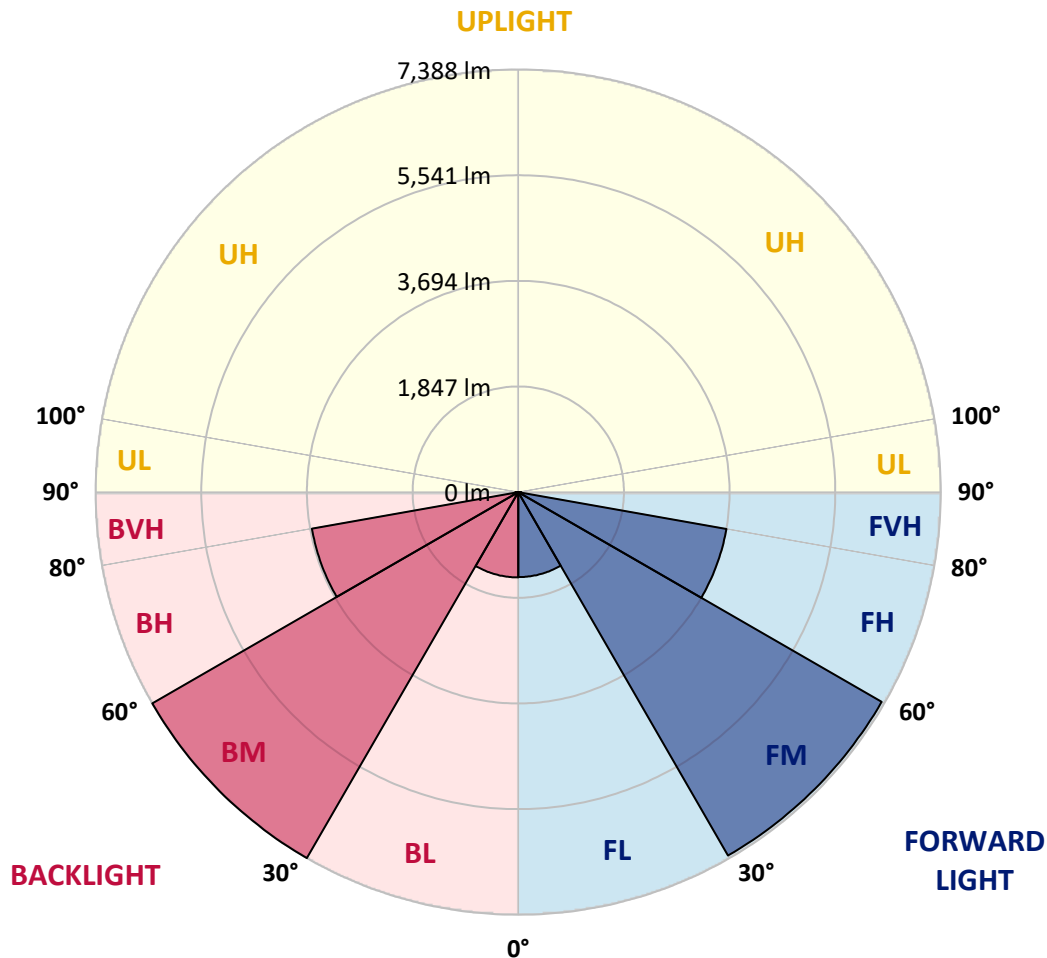
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1485.3	5.9			
FM (30°-60°)	7335.4	29.1			
FH (60°-80°)	3696.0	14.7			G2/5000
FVH (80°-90°)	54.7	0.2			G1/100
BL (0°-30°)	1491.0	5.9	B3/2500		
BM (30°-60°)	7388.3	29.4	B4/8500		
BH (60°-80°)	3664.1	14.6	B4/5000		G2/5000
BVH (80°-90°)	52.0	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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	2911.9	2917.7	2969.6	2949.4	2966.7	2935.0	2958.1	3007.1	2949.4	2992.7	3007.1
5°	2943.6	2952.3	2952.3	2972.5	2984.0	2978.3	2992.7	2972.5	3027.3	3004.2	3038.9
7.5°	3059.1	3044.6	3021.6	3038.9	3041.8	3056.2	3070.6	3096.6	3087.9	3067.7	3102.4
10°	3079.3	3067.7	3102.4	3105.2	3090.8	3079.3	3093.7	3093.7	3119.7	3125.4	3125.4
12.5°	3113.9	3125.4	3122.6	3145.7	3148.5	3139.9	3163.0	3206.3	3194.7	3203.4	3183.2
15°	3246.7	3232.2	3229.3	3252.4	3289.9	3235.1	3275.5	3272.6	3261.1	3278.4	3232.2
17.5°	3362.1	3315.9	3336.1	3373.6	3359.2	3370.8	3422.7	3376.5	3388.1	3367.9	3353.4
20°	3463.1	3425.6	3428.5	3442.9	3442.9	3477.5	3497.7	3480.4	3468.9	3466.0	3471.8
22.5°	3575.7	3532.4	3535.3	3595.9	3616.1	3604.5	3590.1	3618.9	3624.7	3601.6	3627.6
25°	3659.3	3705.5	3719.9	3748.8	3705.5	3737.3	3725.7	3780.6	3815.2	3769.0	3800.8
27.5°	3878.7	3858.5	3896.0	3893.1	3927.7	3896.0	3916.2	3933.5	3947.9	3950.8	3936.4
30°	4074.9	4083.6	4046.1	4147.1	4066.3	4118.2	4152.8	4161.5	4178.8	4178.8	4135.5
32.5°	4282.7	4265.4	4326.0	4302.9	4288.5	4328.9	4291.4	4409.7	4340.4	4380.8	4331.8
35°	4516.5	4516.5	4539.5	4603.0	4516.5	4490.5	4559.8	4608.8	4608.8	4536.7	4554.0
37.5°	4779.1	4756.0	4784.9	4865.7	4799.3	4712.7	4839.7	4859.9	4845.5	4825.3	4790.6
40°	4963.8	4958.0	5015.7	5122.5	5027.3	5010.0	5033.0	5087.9	5105.2	5125.4	5079.2
42.5°	5275.5	5301.4	5468.8	5442.8	5364.9	5304.3	5298.5	5503.4	5454.4	5402.4	5376.5
45°	5737.2	5714.1	5800.7	5803.6	5702.6	5569.8	5598.7	5786.3	5870.0	5754.5	5797.8
47.5°	6103.7	6115.3	6175.9	6300.0	6066.2	5927.7	6034.5	6337.5	6311.5	6268.2	6308.6
50°	6594.3	6646.3	6836.7	6793.5	6585.7	6415.4	6649.2	6934.9	6966.6	6807.9	6779.0
52.5°	7272.5	7353.3	7457.2	7491.8	7292.7	7232.1	7246.5	7601.5	7523.6	7370.6	7272.5
55°	7867.0	7904.5	8095.0	8380.7	8366.3	8074.8	8242.2	8374.9	8057.5	7742.9	7768.9
57.5°	8121.0	8138.3	8669.3	9240.7	9581.2	9647.6	9457.2	9009.8	8253.7	7647.7	7610.2
60°	7489.0	7653.5	8294.1	9584.1	11139.6	11907.3	10640.4	9082.0	7794.9	7059.0	7004.1
62.5°	5985.4	5994.1	6946.4	8903.1	12109.3	14120.8	11093.5	8403.8	6571.2	5737.2	5517.9
64°	4262.5	4343.3	5437.1	7881.4	11907.3	15021.2	11038.6	7517.8	5416.9	4233.6	4080.7
65°	3059.1	3171.6	4227.9	6842.5	11434.0	14914.4	10874.1	6755.9	4380.8	3232.2	3076.4
67.5°	1125.5	1171.7	1659.4	3422.7	8210.4	12709.6	8617.4	3714.2	1924.9	1370.8	1232.3
70°	522.4	525.2	614.7	1131.3	3590.1	8499.0	4112.4	1393.9	724.4	574.3	533.9
72.5°	383.8	392.5	430.0	522.4	1056.2	3598.7	1350.6	571.4	424.2	375.2	366.5
75°	311.7	317.5	329.0	378.1	487.7	963.9	548.3	395.4	337.7	303.0	291.5
77.5°	239.5	239.5	265.5	288.6	323.2	450.2	363.6	314.6	274.2	239.5	230.9
80°	173.2	176.0	207.8	225.1	219.3	297.2	262.6	259.7	225.1	187.6	173.2
82.5°	101.0	109.7	150.1	161.6	155.8	176.0	190.5	202.0	176.0	129.9	118.3
85°	57.7	60.6	86.6	89.5	89.5	83.7	109.7	121.2	118.3	80.8	72.1
87.5°	17.3	17.3	23.1	23.1	26.0	28.9	43.3	51.9	57.7	40.4	37.5
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°	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5	2946.5
2.5°	2992.7	2949.4	2952.3	2963.8	2926.3	2940.8	2984.0	2952.3	2943.6	2926.3	2917.7
5°	2978.3	3024.4	3007.1	3012.9	3004.2	2963.8	2958.1	2984.0	2998.5	2972.5	3024.4
7.5°	3079.3	3059.1	3036.0	3044.6	3024.4	3059.1	3082.2	3030.2	3056.2	3041.8	3012.9
10°	3137.0	3099.5	3116.8	3111.0	3096.6	3131.2	3108.1	3102.4	3079.3	3047.5	3093.7
12.5°	3157.2	3200.5	3229.3	3180.3	3188.9	3171.6	3157.2	3157.2	3131.2	3122.6	3131.2
15°	3246.7	3284.2	3272.6	3310.1	3261.1	3278.4	3295.7	3252.4	3275.5	3212.0	3261.1
17.5°	3411.2	3379.4	3419.8	3370.8	3388.1	3422.7	3367.9	3367.9	3385.2	3350.6	3307.3
20°	3515.0	3500.6	3486.2	3489.1	3460.2	3492.0	3474.6	3466.0	3440.0	3451.6	3474.6
22.5°	3613.2	3593.0	3598.7	3607.4	3627.6	3613.2	3604.5	3613.2	3549.7	3607.4	3526.6
25°	3734.4	3789.2	3771.9	3809.4	3751.7	3789.2	3786.3	3731.5	3766.1	3743.0	3725.7
27.5°	3936.4	3907.5	3933.5	3887.3	3927.7	3930.6	3896.0	3988.3	3947.9	3942.2	3930.6
30°	4196.1	4175.9	4158.6	4132.6	4164.4	4138.4	4167.3	4175.9	4138.4	4109.5	4054.7
32.5°	4343.3	4398.1	4418.3	4354.9	4357.7	4372.2	4346.2	4320.2	4343.3	4352.0	4343.3
35°	4551.1	4603.0	4614.6	4565.5	4539.5	4611.7	4559.8	4646.3	4571.3	4574.2	4496.3
37.5°	4793.5	4807.9	4906.1	4851.2	4828.1	4793.5	4888.7	4877.2	4894.5	4756.0	4825.3
40°	5067.7	5119.6	5174.5	5035.9	5033.0	5064.8	5059.0	5125.4	5093.6	5073.4	5024.4
42.5°	5367.8	5477.5	5486.1	5393.8	5336.1	5330.3	5359.2	5506.3	5509.2	5376.5	5318.7
45°	5766.1	5887.3	5855.5	5676.6	5613.1	5604.5	5745.9	5809.4	5864.2	5812.2	5763.2
47.5°	6262.4	6343.2	6320.2	6155.7	5950.8	6008.5	6147.0	6346.1	6288.4	6219.2	6161.4
50°	6793.5	6888.7	6839.6	6675.1	6478.9	6478.9	6649.2	6903.1	6885.8	6750.2	6698.2
52.5°	7382.2	7520.7	7633.3	7399.5	7235.0	7261.0	7529.4	7621.7	7578.4	7483.2	7439.9
55°	7820.8	8086.3	8317.2	8328.8	8337.4	8334.5	8403.8	8496.1	8187.4	8034.4	7878.6
57.5°	7714.1	8216.2	9007.0	9543.7	9702.5	9786.1	9763.1	9335.9	8605.8	8103.7	8155.6
60°	6952.2	7771.8	9047.4	10770.2	11924.6	11809.2	11387.8	9699.6	8374.9	7526.5	7419.7
62.5°	5546.7	6533.7	8369.2	11116.6	14296.8	14262.2	12057.4	8859.8	6978.2	5904.6	5838.2
64°	4178.8	5217.7	7465.9	11027.1	15128.0	15162.6	11887.1	7826.6	5460.2	4178.8	4077.8
65°	3197.6	4161.5	6579.9	10842.4	14949.1	14969.3	11413.8	6758.8	4150.0	2966.7	2857.1
67.5°	1272.7	1772.0	3569.9	8222.0	12836.6	12781.7	8144.1	3269.7	1587.3	1033.2	1013.0
70°	542.6	675.3	1252.5	3896.0	8594.3	8435.5	3506.4	1062.0	588.7	493.5	490.6
72.5°	372.3	412.7	536.8	1203.4	3572.8	3489.1	998.5	493.5	401.1	369.4	369.4
75°	300.1	329.0	389.6	505.0	946.6	912.0	470.4	363.6	320.3	297.2	294.4
77.5°	233.8	262.6	305.9	349.2	432.9	430.0	314.6	274.2	248.2	230.9	225.1
80°	184.7	213.6	242.4	248.2	282.8	277.0	213.6	216.4	202.0	167.4	164.5
82.5°	127.0	173.2	193.4	176.0	167.4	167.4	153.0	153.0	141.4	103.9	95.2
85°	77.9	115.4	121.2	103.9	77.9	77.9	83.7	80.8	75.0	54.8	51.9
87.5°	40.4	54.8	49.1	40.4	26.0	26.0	23.1	17.3	17.3	14.4	14.4
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)