

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: P479508

Luminaire Tested: **IFLD-L-SA7B-830-U-5MQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479508  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7B-830-U-5MQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens  
Light Source: (112) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

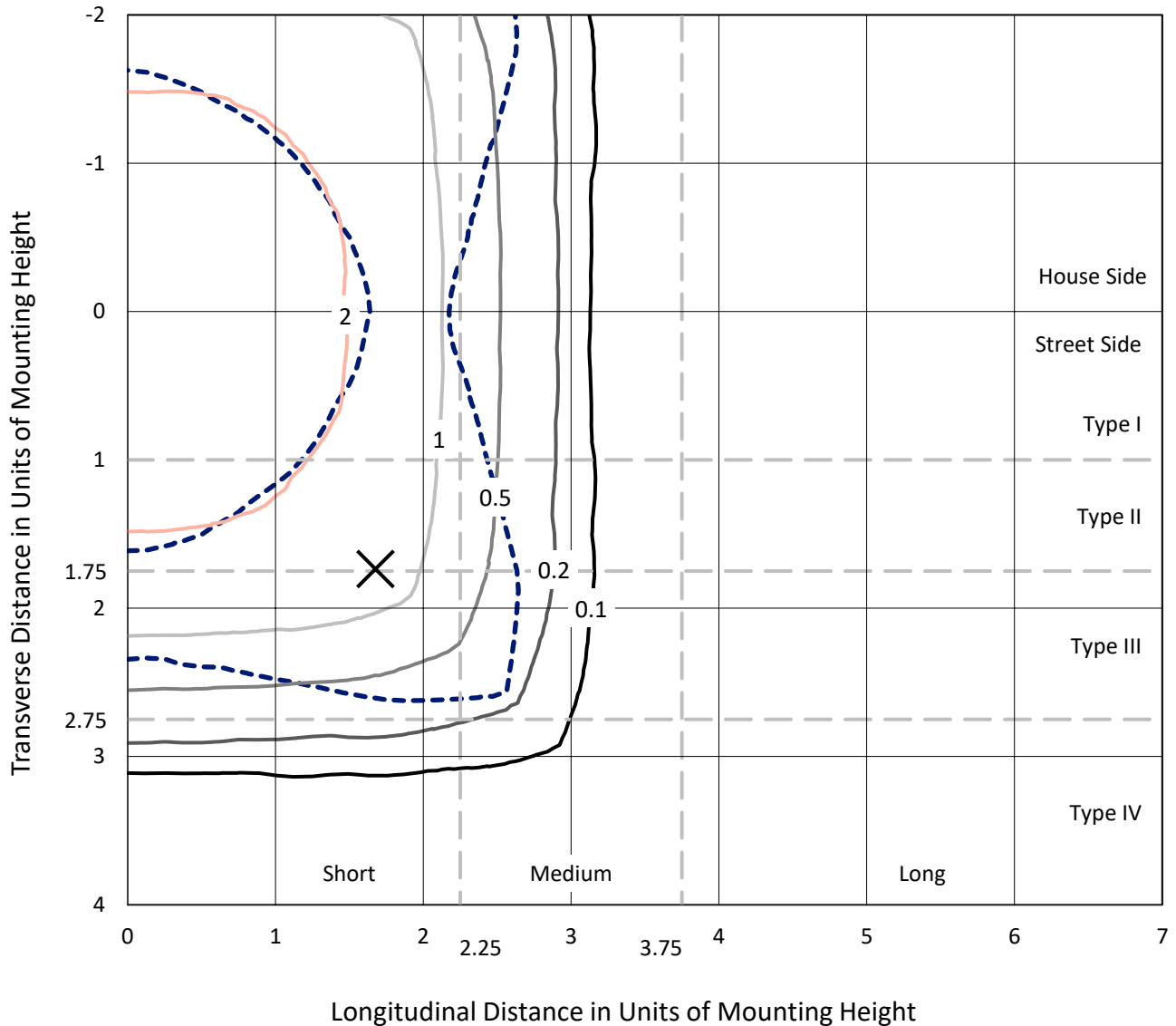
Lumens per Lamp: N/A  
Luminaire Lumens: 28563.6 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 281  
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

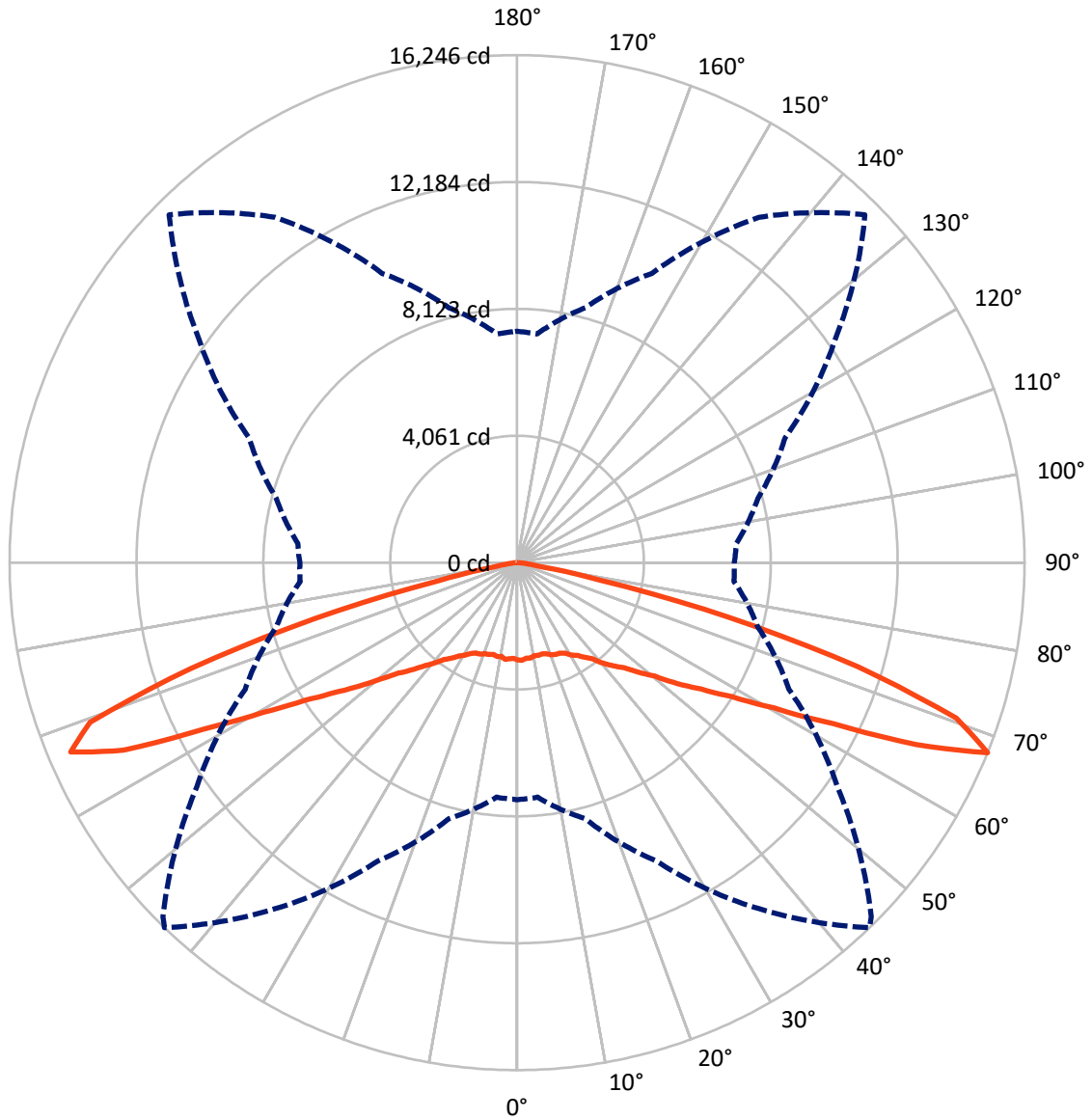
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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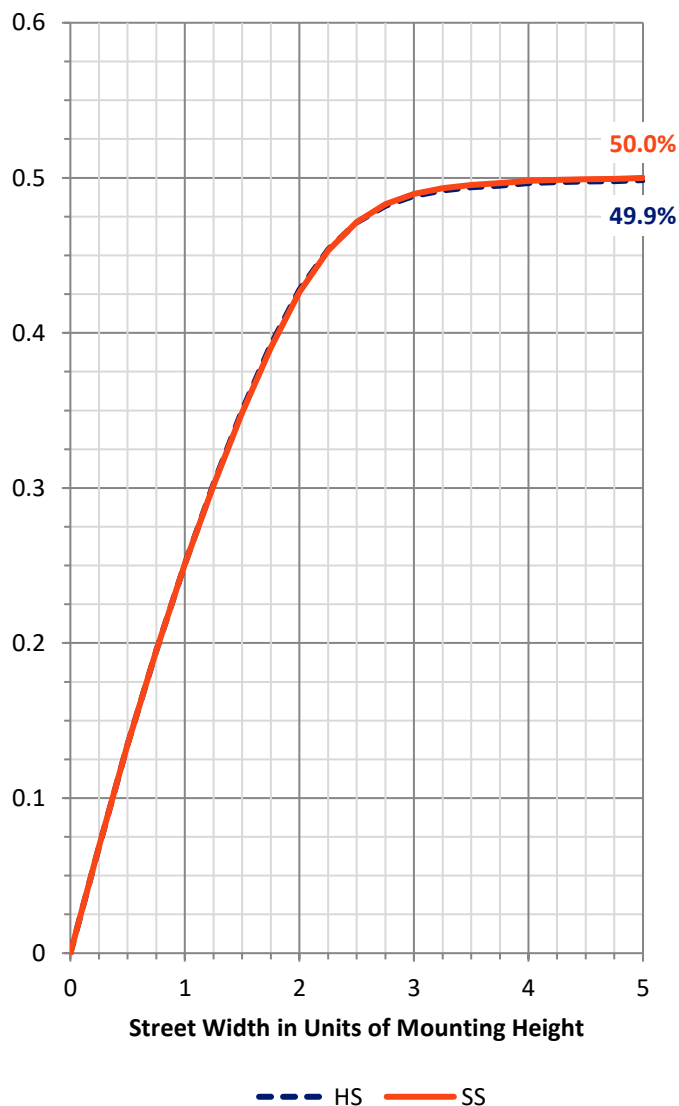
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14245.2	0.0	14245.2
	% Fixture	49.9	0.0	49.9
<b>Street Side</b>	Lumens	14318.4	0.0	14318.4
	% Fixture	50.1	0.0	50.1
<b>Total</b>	Lumens	28563.6	0.0	28563.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	295.3	1.0
10°-20°	862.6	3.0
20°-30°	1466.9	5.1
30°-40°	2325.7	8.1
40°-50°	3792.3	13.3
50°-60°	6476.8	22.7
60°-70°	9851.2	34.5
70°-80°	3320.5	11.6
80°-90°	172.4	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°	28563.6	100.0
0°-180°	28563.6	100.0

**Coefficient of Utilization**



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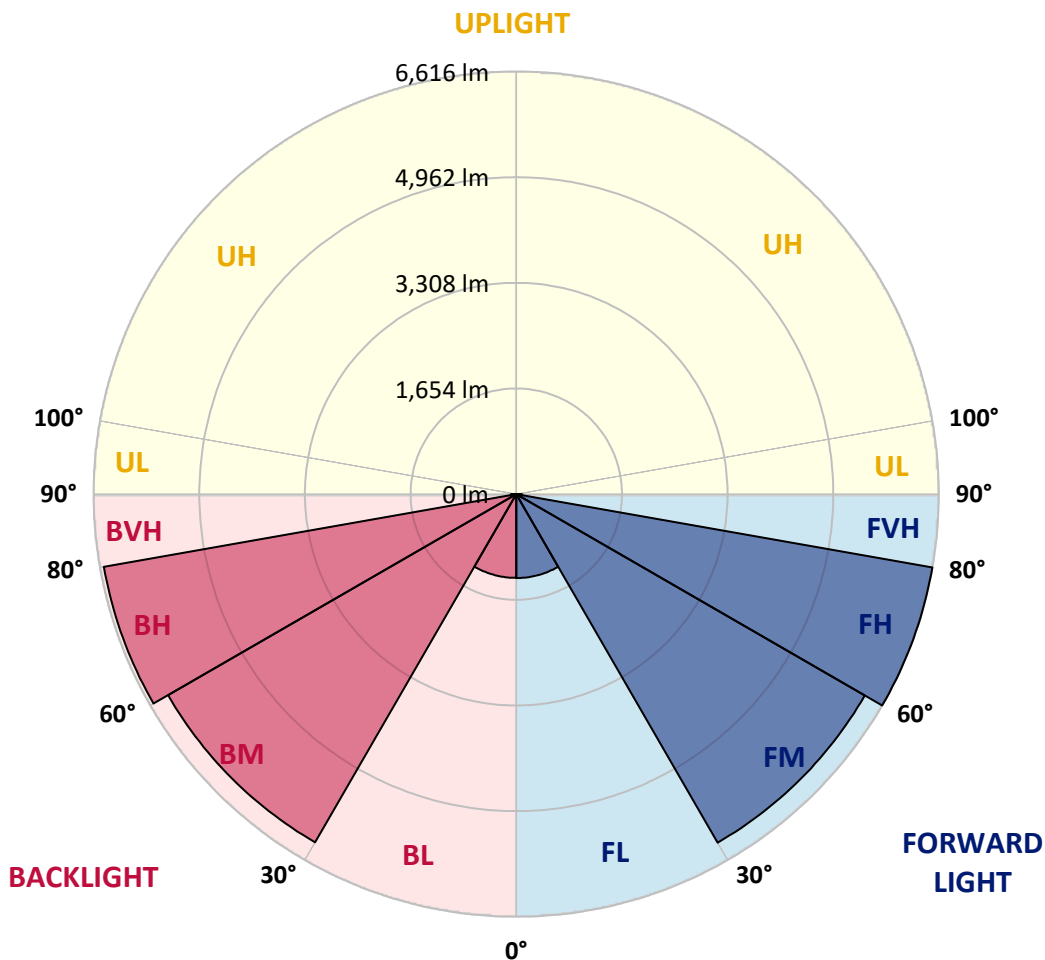
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1313.7	4.6			
FM (30°-60°)	6300.9	22.1			
FH (60°-80°)	6615.6	23.2			G3/7500
FVH (80°-90°)	88.2	0.3			G1/100
BL (0°-30°)	1311.0	4.6	B3/2500		
BM (30°-60°)	6294.1	22.0	B4/8500		
BH (60°-80°)	6556.0	23.0	B5		G3/7500
BVH (80°-90°)	84.2	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°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3048.4	3084.2	3110.3	3107.0	3116.8	3126.6	3113.6	3133.1	3120.1	3142.9	3155.9
5°	3107.0	3097.3	3100.5	3081.0	3126.6	3074.4	3074.4	3100.5	3133.1	3094.0	3116.8
7.5°	3071.2	3064.7	3048.4	3077.7	3087.5	3087.5	3113.6	3064.7	3120.1	3133.1	3136.4
10°	3032.1	2996.2	3045.1	3074.4	3081.0	3028.8	3051.6	3064.7	3048.4	3064.7	3074.4
12.5°	2999.5	3019.0	3019.0	3019.0	3009.2	3045.1	3067.9	3064.7	3032.1	3061.4	3009.2
15°	2996.2	2986.4	3015.8	3041.8	3025.5	3032.1	3041.8	3071.2	3009.2	3022.3	3022.3
17.5°	2992.9	3006.0	3015.8	3012.5	3067.9	3067.9	3058.1	3038.6	3087.5	3061.4	3025.5
20°	3006.0	2996.2	3022.3	3032.1	3071.2	3149.4	3120.1	3103.8	3077.7	3045.1	3045.1
22.5°	3022.3	3015.8	3051.6	3094.0	3169.0	3188.5	3185.3	3165.7	3120.1	3081.0	3074.4
25°	3081.0	3022.3	3061.4	3142.9	3169.0	3208.1	3234.2	3208.1	3146.2	3155.9	3097.3
27.5°	3169.0	3159.2	3211.4	3266.8	3244.0	3279.8	3257.0	3276.6	3279.8	3230.9	3172.2
30°	3273.3	3244.0	3276.6	3384.2	3393.9	3433.1	3393.9	3341.8	3358.1	3315.7	3286.4
32.5°	3423.3	3413.5	3475.5	3547.2	3560.2	3540.7	3521.1	3550.4	3482.0	3449.4	3397.2
35°	3521.1	3563.5	3638.5	3693.9	3736.3	3716.7	3726.5	3697.1	3713.5	3645.0	3622.2
37.5°	3811.3	3795.0	3811.3	3905.8	3915.6	3905.8	3915.6	3948.2	3925.4	3866.7	3808.0
40°	4085.1	4059.0	4098.2	4205.8	4199.2	4231.8	4166.6	4202.5	4202.5	4091.6	4068.8
42.5°	4290.5	4378.5	4424.2	4512.2	4544.8	4515.5	4502.4	4509.0	4580.7	4450.3	4401.4
45°	4714.4	4711.1	4848.0	4896.9	4805.6	4799.1	4773.0	4851.3	4900.2	4825.2	4805.6
47.5°	5174.1	5196.9	5275.1	5294.7	5350.1	5249.0	5249.0	5258.8	5431.6	5255.6	5164.3
50°	5588.1	5617.4	5773.9	5927.2	5822.8	5715.3	5757.6	5809.8	5904.4	5738.1	5659.8
52.5°	6090.2	6249.9	6354.3	6435.8	6510.8	6435.8	6338.0	6396.7	6582.5	6360.8	6263.0
55°	6814.0	6941.1	7038.9	7188.9	7250.8	7149.8	7140.0	7133.5	7237.8	7003.1	6869.4
57.5°	7622.5	7570.4	7726.8	7958.3	8183.3	8085.5	8056.1	8062.7	8088.7	7756.2	7655.1
60°	8626.7	8685.4	8871.2	9073.3	9311.3	9448.3	9255.9	9145.1	9167.9	8714.7	8558.2
62.5°	9200.5	9330.9	9751.5	10445.9	10925.2	11352.3	11381.6	10661.1	10178.6	9298.3	8633.2
65°	8923.4	8903.8	9696.1	10980.6	12796.6	14038.7	13852.9	12105.4	10419.8	9021.2	8127.9
67.5°	7589.9	7537.8	8496.3	10533.9	13533.4	16245.9	16034.0	12512.9	9604.8	7981.1	6970.5
70°	4890.4	4877.4	5917.4	8030.1	12082.6	14915.7	14994.0	11365.3	7818.1	5845.7	4844.8
72.5°	1776.8	1884.4	2487.6	4316.6	8206.1	11411.0	11459.9	8414.8	4495.9	2702.8	1992.0
75°	655.3	674.9	785.7	1401.9	3739.5	7006.3	7188.9	4081.9	1597.5	880.3	717.3
77.5°	378.2	381.5	420.6	521.6	1108.5	2735.4	2846.2	1238.9	619.5	469.5	433.6
80°	257.6	254.3	296.7	339.1	443.4	775.9	824.8	518.4	391.2	326.0	273.9
82.5°	150.0	159.8	218.4	241.3	270.6	342.3	348.8	322.8	293.4	241.3	179.3
85°	91.3	75.0	120.6	133.7	156.5	153.2	153.2	176.1	189.1	169.5	101.1
87.5°	22.8	22.8	29.3	32.6	42.4	32.6	35.9	68.5	91.3	84.8	52.2
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°	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1	3120.1
2.5°	3126.6	3116.8	3123.3	3159.2	3136.4	3067.9	3084.2	3120.1	3090.7	3074.4	3071.2
5°	3113.6	3133.1	3110.3	3116.8	3139.6	3084.2	3094.0	3139.6	3120.1	3126.6	3090.7
7.5°	3116.8	3126.6	3107.0	3077.7	3077.7	3123.3	3097.3	3103.8	3074.4	3123.3	3058.1
10°	3097.3	3071.2	3048.4	3064.7	3058.1	3045.1	3035.3	3054.9	3025.5	3067.9	3022.3
12.5°	3038.6	3045.1	3038.6	3032.1	3045.1	3077.7	3025.5	3032.1	2986.4	2992.9	3015.8
15°	3015.8	3035.3	3028.8	3064.7	3081.0	3032.1	3071.2	3032.1	2996.2	2976.6	3012.5
17.5°	3025.5	3054.9	3045.1	3071.2	3041.8	3077.7	3084.2	3067.9	3025.5	3009.2	3025.5
20°	3035.3	3025.5	3038.6	3084.2	3126.6	3090.7	3090.7	3081.0	3041.8	3019.0	3019.0
22.5°	3058.1	3041.8	3061.4	3097.3	3110.3	3165.7	3116.8	3094.0	3028.8	2970.1	3025.5
25°	3103.8	3113.6	3126.6	3113.6	3185.3	3178.8	3172.2	3155.9	3054.9	3058.1	3048.4
27.5°	3191.8	3136.4	3152.7	3230.9	3240.7	3266.8	3234.2	3263.5	3155.9	3159.2	3094.0
30°	3299.4	3240.7	3292.9	3361.3	3358.1	3407.0	3390.7	3397.2	3322.2	3279.8	3191.8
32.5°	3416.8	3410.2	3442.8	3485.2	3501.5	3527.6	3524.4	3524.4	3478.7	3367.9	3384.2
35°	3547.2	3592.8	3631.9	3677.6	3684.1	3716.7	3671.1	3677.6	3631.9	3550.4	3576.5
37.5°	3804.7	3801.5	3843.9	3899.3	3905.8	3879.7	3915.6	3899.3	3837.3	3781.9	3739.5
40°	4104.7	4039.5	4078.6	4209.0	4218.8	4173.1	4169.9	4166.6	4121.0	4000.4	3974.3
42.5°	4365.5	4450.3	4443.8	4486.1	4456.8	4434.0	4515.5	4469.8	4434.0	4306.8	4284.0
45°	4701.3	4727.4	4812.2	4949.1	4808.9	4808.9	4864.3	4828.5	4808.9	4714.4	4626.3
47.5°	5118.6	5141.4	5311.0	5320.8	5229.5	5167.5	5340.3	5346.8	5265.3	5193.6	5086.0
50°	5607.7	5617.4	5770.7	5927.2	5826.1	5708.7	5884.8	5953.3	5770.7	5672.9	5539.2
52.5°	6145.6	6116.3	6243.4	6536.8	6439.0	6403.2	6592.3	6608.6	6360.8	6207.6	6243.4
55°	6765.1	6725.9	7071.5	7270.4	7208.5	7143.3	7228.0	7267.1	7068.3	6817.2	6905.3
57.5°	7567.1	7586.7	7759.4	7955.1	8056.1	8072.4	8111.6	8072.4	7870.3	7616.0	7534.5
60°	8369.1	8427.8	8763.6	9132.0	9164.6	9451.5	9399.4	9203.7	8916.8	8555.0	8571.3
62.5°	8665.8	8616.9	9158.1	10057.9	10824.1	11349.0	11117.5	10423.1	9758.0	9099.4	9148.3
65°	8069.2	8189.8	8926.6	10335.1	11997.8	14074.6	12842.2	10921.9	9578.7	8727.7	8633.2
67.5°	6954.2	7045.4	7981.1	9467.8	12418.4	15750.4	13494.3	10217.7	8447.4	7345.4	7404.1
70°	4844.8	4890.4	5806.5	7756.2	11261.0	14863.6	12173.9	7847.5	5832.6	4649.1	4714.4
72.5°	1949.6	2060.5	2663.6	4672.0	8313.7	11293.6	8196.3	4117.7	2419.1	1799.7	1633.4
75°	720.5	723.8	850.9	1607.3	3948.2	7097.6	3697.1	1323.7	772.7	632.5	603.2
77.5°	417.3	414.1	443.4	580.3	1144.4	2771.2	1049.8	518.4	420.6	378.2	361.9
80°	260.8	257.6	303.2	384.7	502.1	759.6	443.4	322.8	283.6	244.5	244.5
82.5°	166.3	169.5	238.0	283.6	306.5	335.8	257.6	228.2	211.9	140.2	136.9
85°	107.6	97.8	166.3	189.1	169.5	150.0	143.5	120.6	110.8	68.5	75.0
87.5°	48.9	52.2	84.8	94.5	61.9	35.9	35.9	26.1	26.1	16.3	16.3
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)