

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: P481448

Luminaire Tested: **IFLD-S-SA6B-830-U-RW**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P481448  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6B-830-U-RW  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens  
Light Source: (96) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

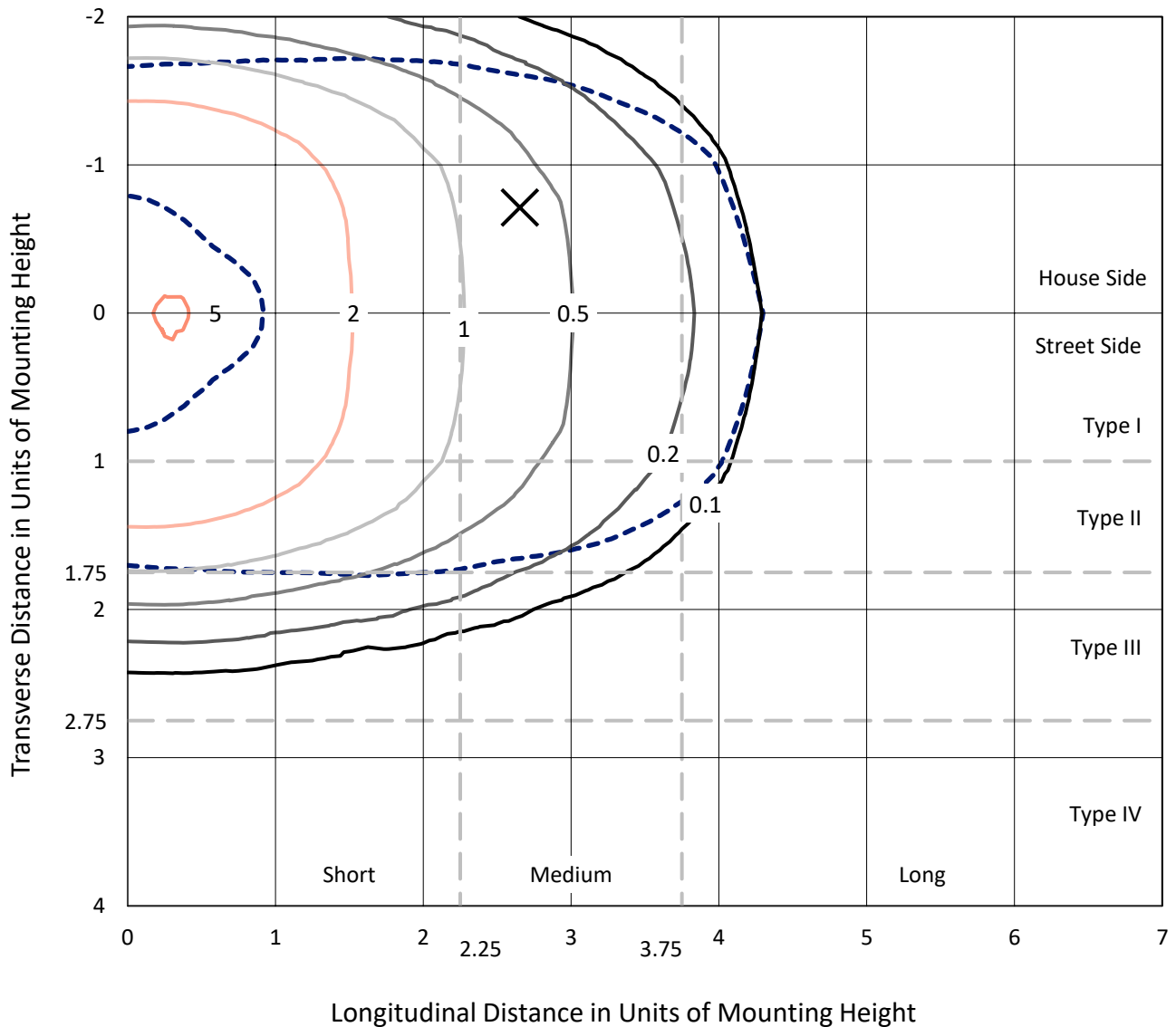
Lumens per Lamp: N/A  
Luminaire Lumens: 27319.9 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 244.9  
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

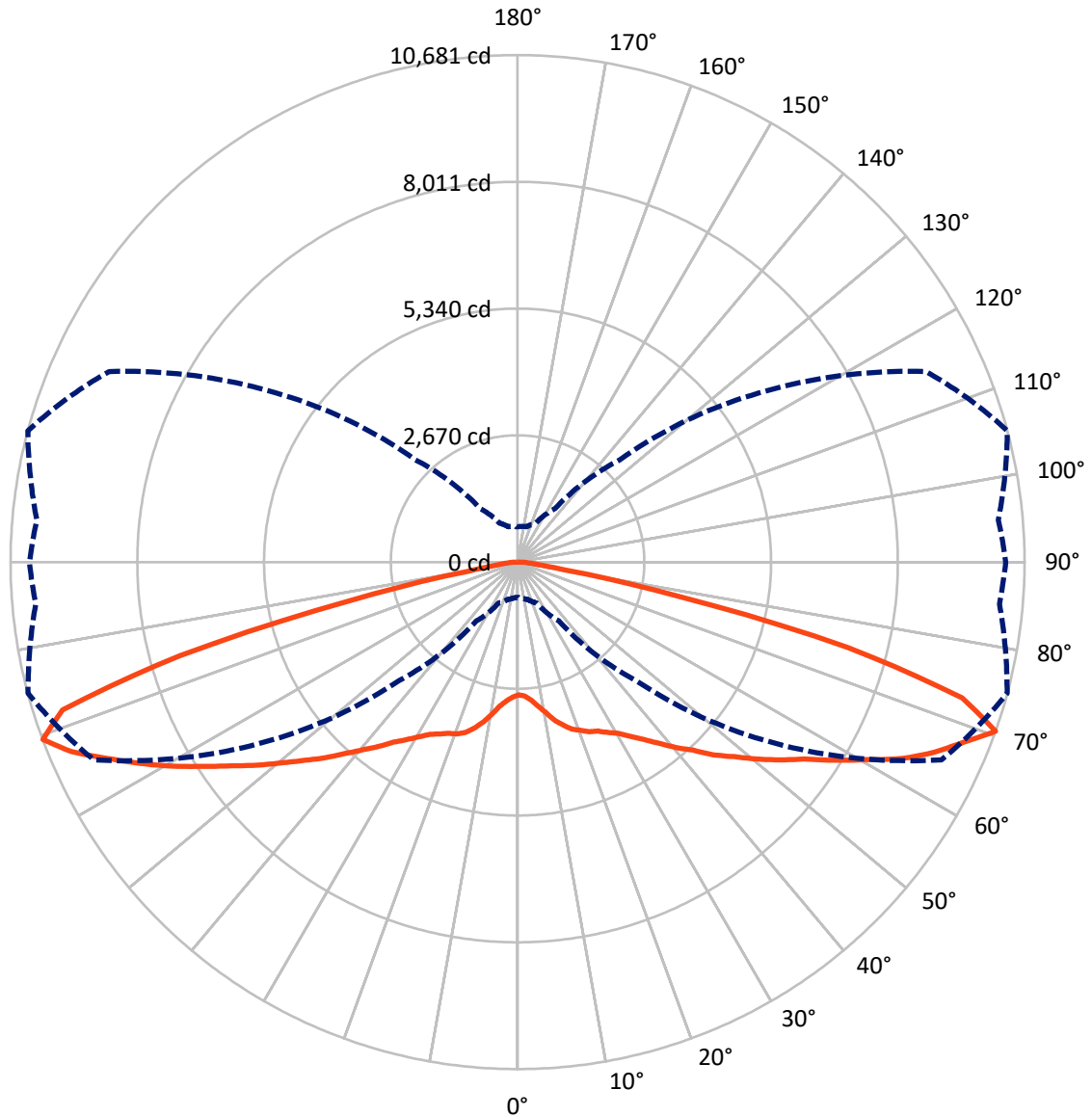
× Max cd  
 - - - 1/2 Max cd



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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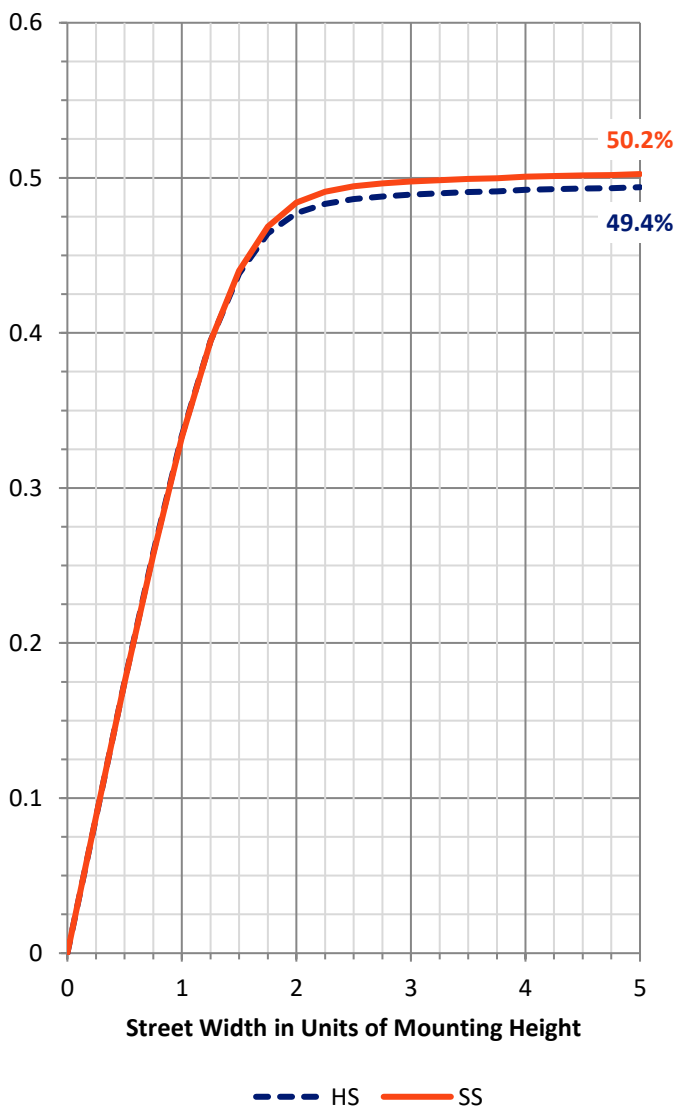
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13562.8	0.0	13562.8
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	13757.1	0.0	13757.1
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	27319.9	0.0	27319.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	278.4	1.0
10°-20°	948.1	3.5
20°-30°	1835.8	6.7
30°-40°	3105.2	11.4
40°-50°	4953.6	18.1
50°-60°	6780.5	24.8
60°-70°	6391.0	23.4
70°-80°	2815.4	10.3
80°-90°	211.8	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°	27319.9	100.0
0°-180°	27319.9	100.0



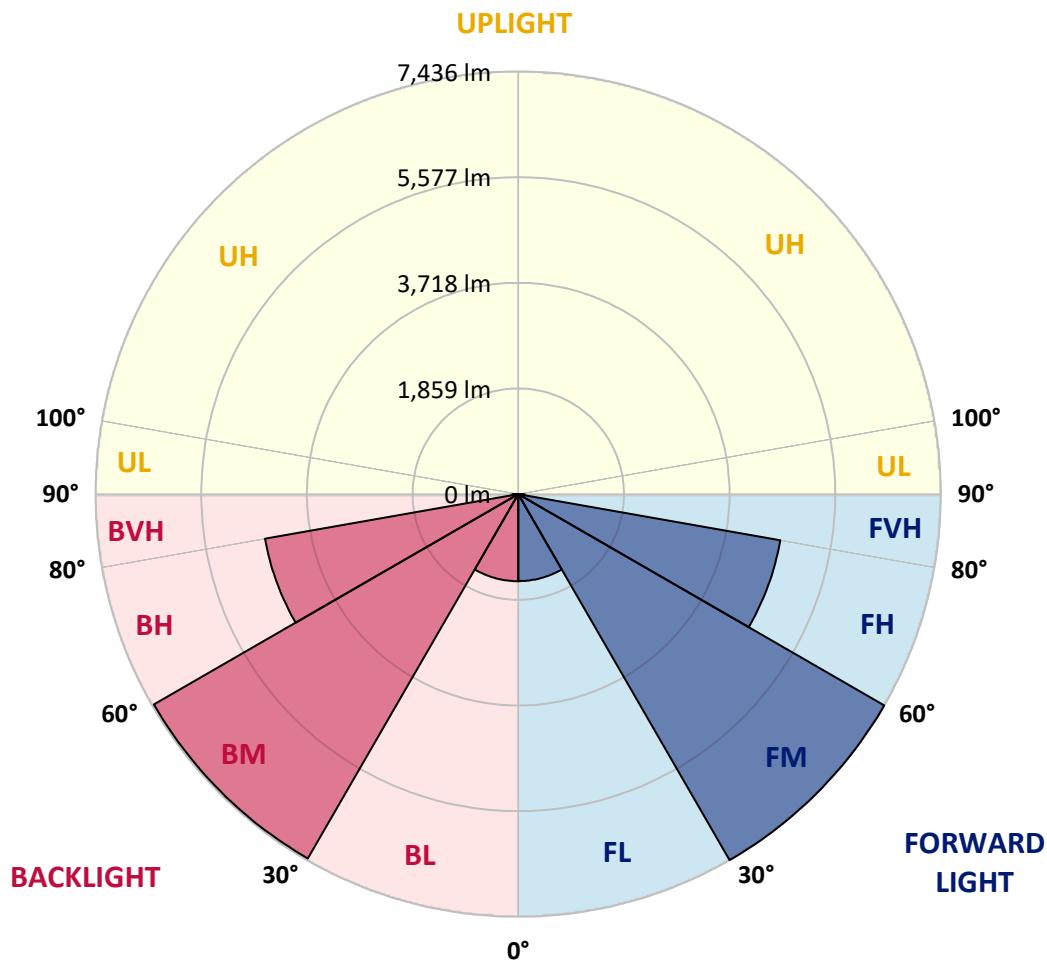
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1530.4	5.6			
FM (30°-60°)	7436.2	27.2			
FH (60°-80°)	4682.3	17.1			G2/5000
FVH (80°-90°)	108.2	0.4			G2/225
BL (0°-30°)	1532.0	5.6	B3/2500		
BM (30°-60°)	7403.0	27.1	B4/8500		
BH (60°-80°)	4524.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	103.6	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°	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5
2.5°	2779.9	2779.9	2776.9	2791.6	2806.4	2812.3	2824.0	2827.0	2844.6	2829.9	2859.4
5°	2771.0	2768.1	2791.6	2827.0	2827.0	2865.3	2888.8	2921.2	2930.0	2947.7	2953.6
7.5°	2832.9	2827.0	2815.2	2853.5	2885.9	2944.8	2977.2	3033.1	3053.7	3077.3	3103.8
10°	2871.2	2871.2	2859.4	2927.1	2956.6	3036.1	3106.7	3162.7	3242.2	3268.7	3271.6
12.5°	2877.0	2885.9	2921.2	3009.6	3092.0	3195.1	3248.1	3354.1	3433.6	3483.7	3501.3
15°	2965.4	2947.7	2986.0	3106.7	3227.5	3318.8	3413.0	3489.6	3604.4	3669.2	3710.4
17.5°	3044.9	3027.2	3097.9	3242.2	3365.9	3507.2	3589.7	3672.1	3754.6	3813.5	3816.4
20°	3171.5	3186.2	3248.1	3404.2	3566.1	3689.8	3784.0	3798.8	3840.0	3925.4	3910.7
22.5°	3327.6	3315.8	3445.4	3616.2	3792.9	3895.9	3948.9	3910.7	3890.0	3981.3	4001.9
25°	3483.7	3519.0	3636.8	3795.8	4007.8	4146.2	4161.0	4055.0	3978.4	4010.8	4001.9
27.5°	3722.2	3728.1	3851.8	4040.2	4255.2	4375.9	4367.1	4216.9	4069.7	4072.6	4078.5
30°	4028.4	3999.0	4134.5	4305.3	4517.3	4626.2	4641.0	4426.0	4228.7	4169.8	4184.5
32.5°	4322.9	4358.3	4476.1	4670.4	4826.5	4888.3	4855.9	4664.5	4408.3	4328.8	4337.6
35°	4699.9	4694.0	4855.9	5020.8	5138.6	5150.4	5123.9	4844.1	4602.7	4499.6	4458.4
37.5°	5103.3	5156.3	5262.3	5397.8	5521.4	5527.3	5383.0	5159.2	4861.8	4691.0	4741.1
40°	5553.8	5612.7	5689.3	5886.6	5977.9	5883.7	5736.4	5433.1	5123.9	4973.7	4997.3
42.5°	5951.4	5977.9	6134.0	6366.6	6410.8	6369.5	6151.6	5783.5	5424.3	5259.4	5271.1
45°	6316.5	6351.9	6555.1	6764.1	6867.2	6796.5	6543.3	6192.9	5774.7	5633.3	5577.4
47.5°	6652.2	6722.9	6920.2	7135.2	7294.2	7300.1	6987.9	6563.9	6122.2	5936.7	5933.7
50°	6879.0	6982.1	7176.4	7420.8	7653.5	7744.7	7432.6	6976.2	6502.1	6304.8	6284.1
52.5°	7002.7	7108.7	7303.0	7682.9	7942.0	8083.4	7936.2	7361.9	6946.7	6740.6	6708.2
55°	6852.5	6923.2	7241.2	7774.2	8174.7	8407.3	8310.1	7894.9	7388.4	7220.6	7250.0
57.5°	6213.5	6360.7	6752.4	7417.9	8168.8	8740.1	8731.2	8398.5	7897.9	7738.9	7744.7
60°	5115.1	5238.7	5721.7	6652.2	7839.0	8875.5	9187.7	8887.3	8469.2	8283.6	8277.8
62.5°	3610.3	3766.4	4325.9	5341.8	6867.2	8687.1	9711.9	9502.8	9028.7	8893.2	8943.3
65°	2020.1	2114.3	2632.6	3551.4	5232.9	7650.5	9806.1	10141.8	9597.0	9390.9	9399.7
67.5°	1080.7	1116.1	1357.5	1864.0	3201.0	5898.4	8854.9	10509.9	10212.5	9856.1	9800.2
70°	742.1	753.9	815.7	954.1	1513.6	3527.8	6678.7	9853.2	10674.8	10188.9	10283.1
72.5°	627.2	621.3	636.1	650.8	792.1	1578.4	3919.5	7582.8	10077.0	9894.4	9859.1
75°	544.8	541.8	547.7	533.0	550.7	695.0	1734.5	4726.4	7376.7	8233.6	8366.1
77.5°	450.6	453.5	456.4	441.7	435.8	459.4	697.9	2076.1	3630.9	4007.8	4322.9
80°	341.6	347.5	371.0	356.3	332.8	335.7	412.3	695.0	1042.4	945.3	974.7
82.5°	232.6	235.6	285.6	268.0	250.3	226.7	265.0	359.3	406.4	309.2	270.9
85°	164.9	162.0	185.5	170.8	159.0	114.8	159.0	203.2	244.4	153.1	138.4
87.5°	38.3	38.3	76.6	61.8	58.9	47.1	61.8	79.5	106.0	67.7	61.8
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°	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5	2797.5
2.5°	2850.5	2824.0	2824.0	2818.1	2794.6	2788.7	2768.1	2774.0	2759.3	2744.5
5°	2950.7	2915.3	2915.3	2865.3	2818.1	2812.3	2788.7	2788.7	2765.1	2771.0
7.5°	3089.1	3056.7	3003.7	2959.5	2894.7	2868.2	2824.0	2818.1	2812.3	2800.5
10°	3254.0	3212.7	3159.7	3068.5	3015.4	2965.4	2921.2	2859.4	2844.6	2847.6
12.5°	3477.8	3413.0	3298.1	3218.6	3150.9	3086.1	3021.3	2930.0	2909.4	2918.3
15°	3636.8	3554.3	3439.5	3410.0	3318.8	3239.2	3133.2	3030.2	2994.8	2986.0
17.5°	3766.4	3698.6	3630.9	3586.7	3513.1	3415.9	3268.7	3150.9	3071.4	3062.6
20°	3872.4	3784.0	3769.3	3795.8	3704.5	3639.7	3460.1	3315.8	3209.8	3165.6
22.5°	3937.2	3881.2	3922.4	3946.0	3940.1	3831.1	3645.6	3477.8	3345.3	3304.0
25°	4007.8	3943.0	4090.3	4169.8	4190.4	4010.8	3866.5	3645.6	3516.1	3489.6
27.5°	4043.2	4066.7	4237.5	4405.4	4390.7	4252.2	4057.9	3860.6	3757.5	3710.4
30°	4146.2	4184.5	4443.7	4632.1	4635.1	4499.6	4352.4	4128.6	4013.7	3993.1
32.5°	4331.8	4378.9	4655.7	4855.9	4891.3	4788.2	4641.0	4502.6	4384.8	4337.6
35°	4473.1	4593.8	4906.0	5088.6	5182.8	5121.0	5038.5	4894.2	4770.5	4729.3
37.5°	4676.3	4844.1	5144.5	5391.9	5497.9	5492.0	5430.2	5274.1	5171.0	5135.7
40°	4967.8	5135.7	5409.5	5736.4	5933.7	5924.9	5889.5	5768.8	5615.7	5598.0
42.5°	5277.0	5415.4	5771.8	6145.7	6428.4	6399.0	6304.8	6163.4	6057.4	6033.8
45°	5577.4	5792.4	6122.2	6602.2	6814.2	6887.8	6775.9	6534.4	6413.7	6399.0
47.5°	5954.3	6125.1	6537.4	6967.3	7282.4	7294.2	7102.8	6879.0	6658.1	6705.2
50°	6290.0	6516.8	6934.9	7406.1	7783.0	7647.6	7403.2	7123.4	6964.4	6902.5
52.5°	6649.3	6926.1	7412.0	7892.0	8101.1	7965.6	7568.1	7255.9	7014.4	6987.9
55°	7173.5	7317.8	7953.8	8321.9	8389.7	8104.0	7518.0	7076.3	6764.1	6687.6
57.5°	7706.5	7874.3	8430.9	8748.9	8678.2	8027.4	7194.1	6510.9	6101.6	5992.6
60°	8245.4	8451.5	8919.7	9211.2	8846.1	7500.3	6278.3	5397.8	4920.7	4823.5
62.5°	8846.1	9114.1	9532.2	9635.3	8348.4	6457.9	4982.6	3895.9	3413.0	3251.0
65°	9379.1	9653.0	10168.3	9546.9	7291.3	4817.6	3221.6	2226.2	1869.9	1740.4
67.5°	9817.9	10127.1	10380.3	8448.5	5338.9	2821.1	1678.5	1172.0	1039.5	992.4
70°	10165.4	10680.7	9496.9	6210.5	3050.8	1375.2	907.0	771.5	753.9	742.1
72.5°	9862.0	9794.3	7091.0	3583.8	1336.9	756.8	656.7	636.1	633.1	636.1
75°	8065.7	7194.1	4240.5	1557.8	671.4	547.7	544.8	535.9	550.7	550.7
77.5°	3913.6	3421.8	1772.8	668.5	441.7	429.9	444.7	444.7	444.7	444.7
80°	907.0	1004.2	633.1	406.4	321.0	321.0	353.4	356.3	341.6	335.7
82.5°	309.2	412.3	347.5	256.2	212.0	238.5	268.0	273.9	226.7	229.7
85°	153.1	241.5	188.5	147.2	109.0	147.2	173.7	182.6	156.1	150.2
87.5°	70.7	106.0	70.7	50.1	38.3	53.0	50.1	41.2	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)