

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: P481213

Luminaire Tested: **IFLD-S-SA6A-730-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481213
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-730-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

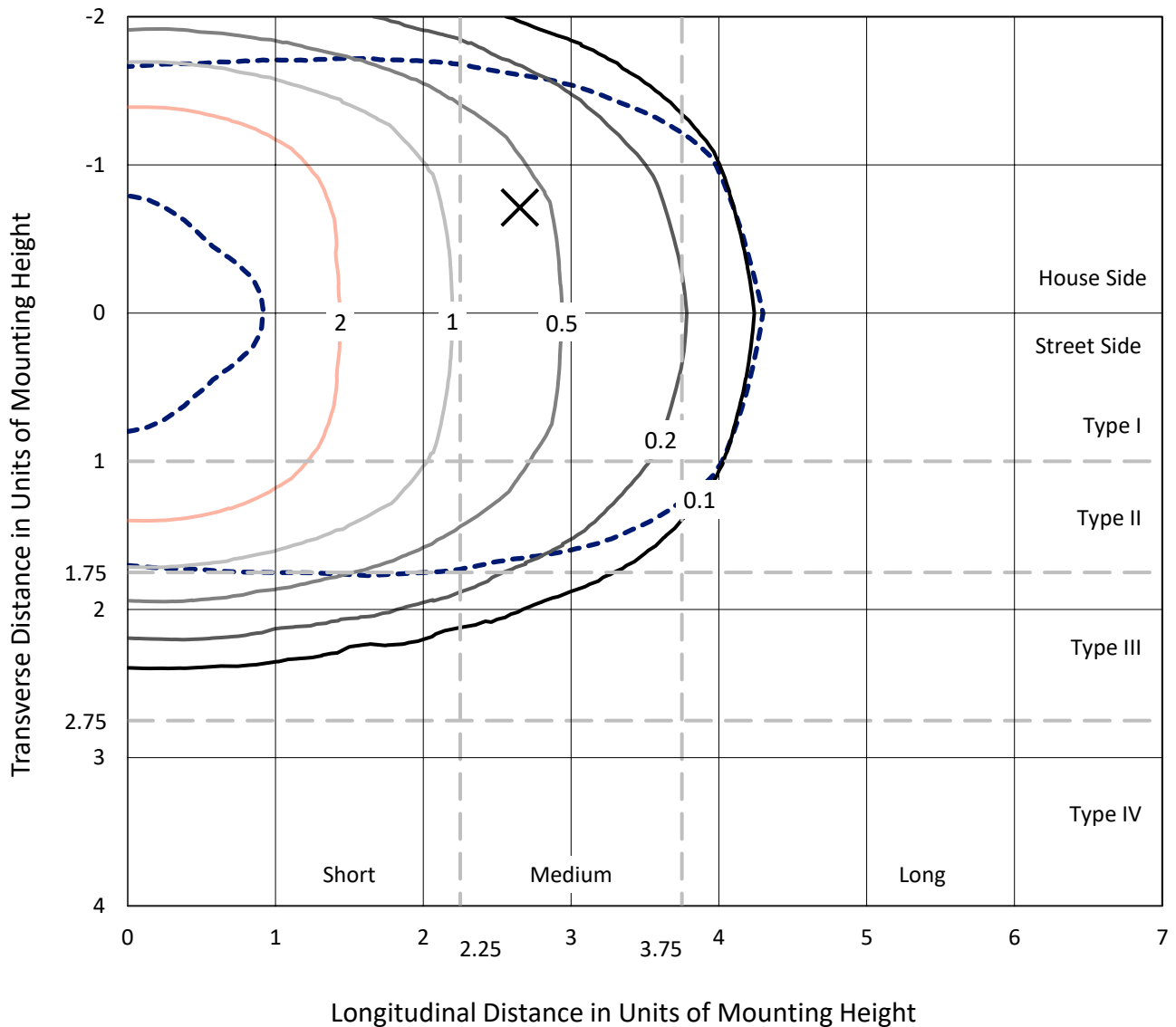
Lumens per Lamp: N/A
Luminaire Lumens: 25315 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

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

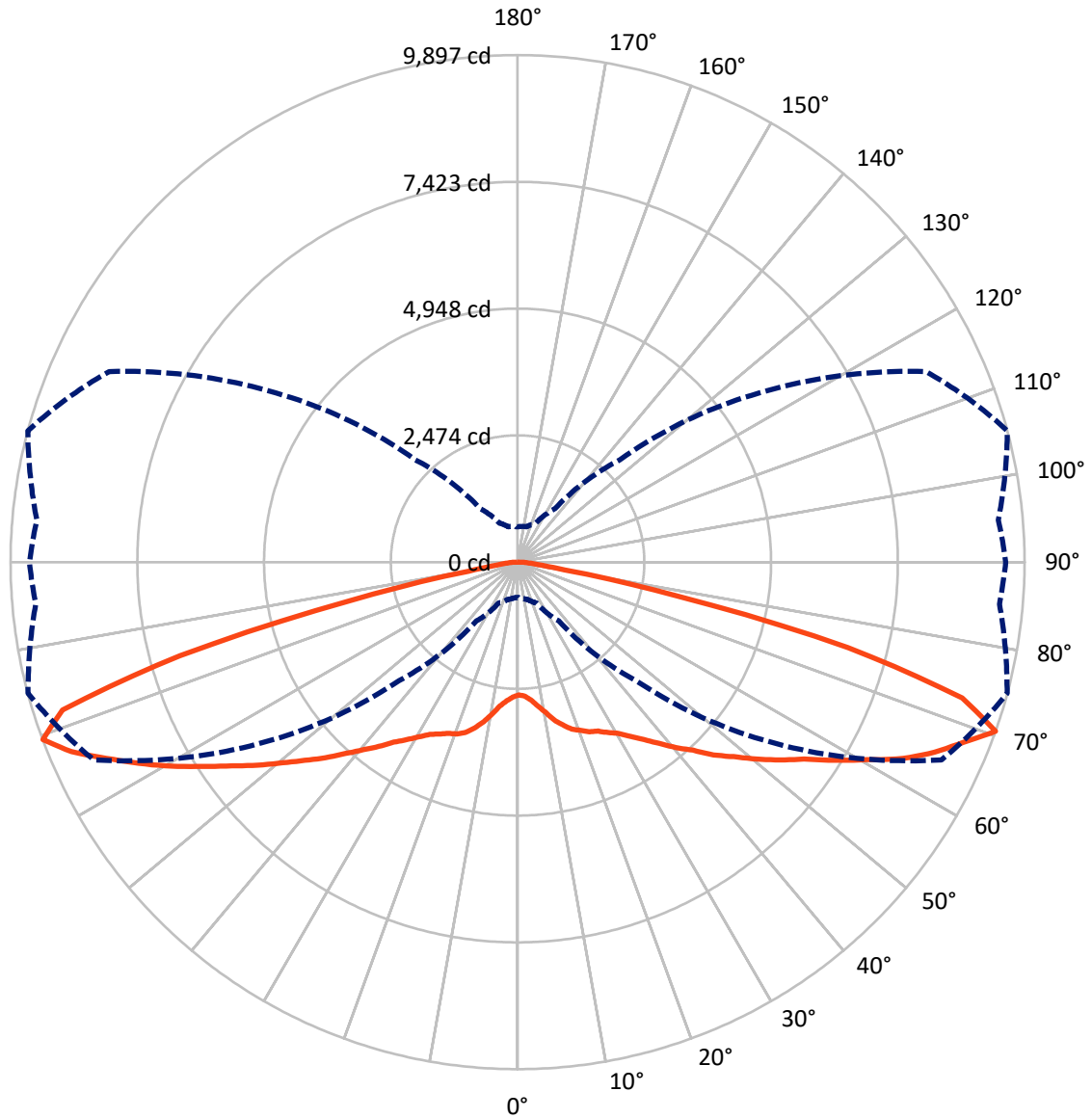
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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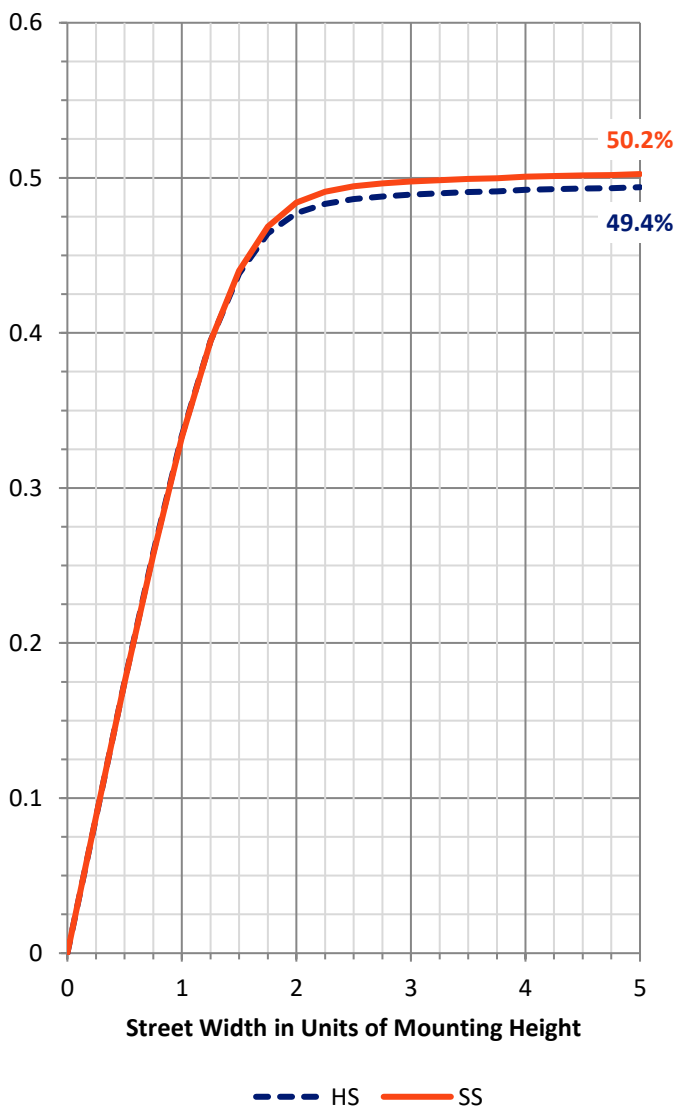
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12567.5	0.0	12567.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	12747.6	0.0	12747.6
	% Fixture	50.4	0.0	50.4
Total	Lumens	25315.0	0.0	25315.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.0	1.0
10°-20°	878.5	3.5
20°-30°	1701.1	6.7
30°-40°	2877.3	11.4
40°-50°	4590.1	18.1
50°-60°	6282.9	24.8
60°-70°	5922.0	23.4
70°-80°	2608.8	10.3
80°-90°	196.3	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°	25315.0	100.0
0°-180°	25315.0	100.0

Coefficient of Utilization

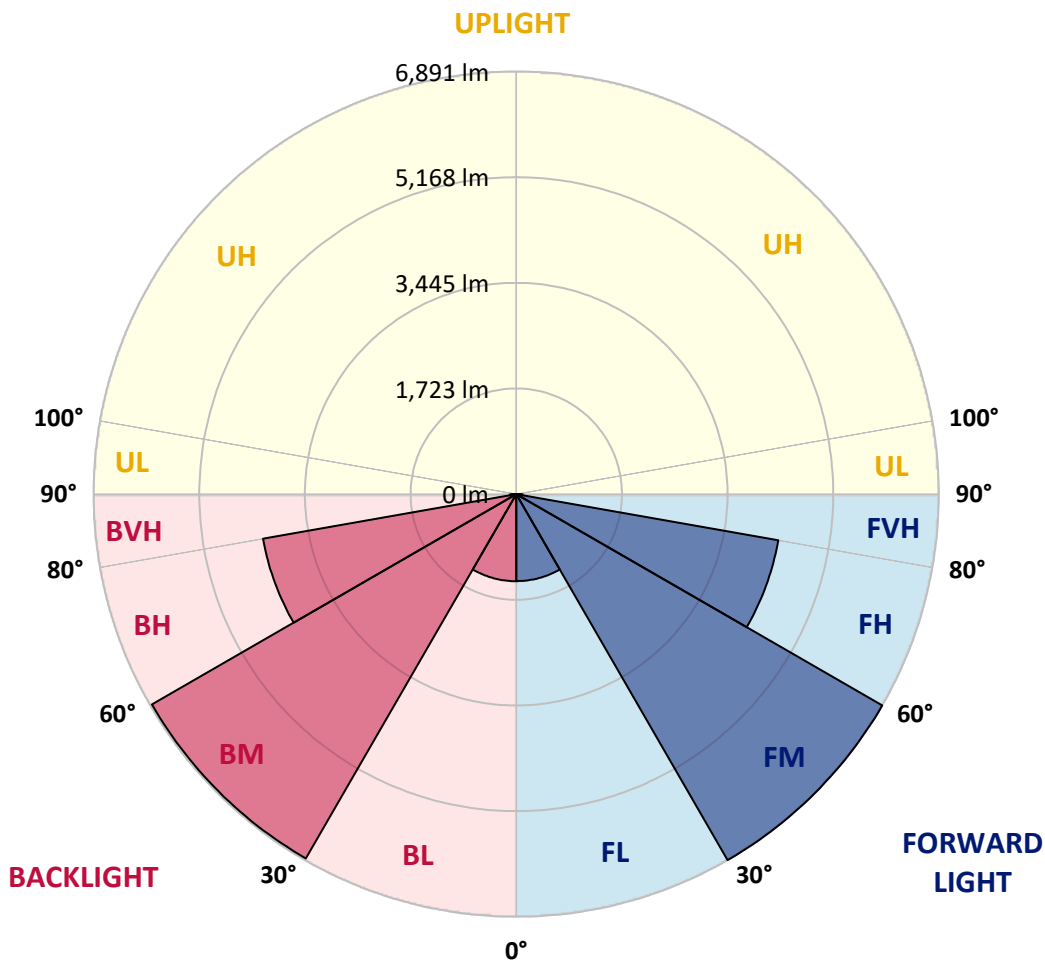


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1418.0	5.6			
FM (30°-60°)	6890.5	27.2			
FH (60°-80°)	4338.7	17.1			G2/5000
FVH (80°-90°)	100.3	0.4			G2/225
BL (0°-30°)	1419.6	5.6	B3/2500		
BM (30°-60°)	6859.7	27.1	B4/8500		
BH (60°-80°)	4192.1	16.6	B4/5000		G4/5000
BVH (80°-90°)	96.0	0.4			G1/100
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°	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2
2.5°	2575.9	2575.9	2573.1	2586.8	2600.4	2605.9	2616.8	2619.5	2635.9	2622.2	2649.5
5°	2567.7	2564.9	2586.8	2619.5	2619.5	2655.0	2676.8	2706.8	2715.0	2731.4	2736.9
7.5°	2625.0	2619.5	2608.6	2644.1	2674.1	2728.7	2758.7	2810.5	2829.6	2851.5	2876.0
10°	2660.5	2660.5	2649.5	2712.3	2739.6	2813.3	2878.7	2930.6	3004.3	3028.8	3031.5
12.5°	2665.9	2674.1	2706.8	2788.7	2865.1	2960.6	3009.7	3108.0	3181.6	3228.0	3244.4
15°	2747.8	2731.4	2766.9	2878.7	2990.6	3075.2	3162.5	3233.5	3339.9	3399.9	3438.1
17.5°	2821.4	2805.1	2870.6	3004.3	3118.9	3249.8	3326.2	3402.6	3479.1	3533.6	3536.4
20°	2938.8	2952.4	3009.7	3154.3	3304.4	3419.0	3506.3	3520.0	3558.2	3637.3	3623.7
22.5°	3083.4	3072.5	3192.5	3350.8	3514.5	3610.0	3659.1	3623.7	3604.6	3689.2	3708.3
25°	3228.0	3260.8	3369.9	3517.3	3713.7	3842.0	3855.6	3757.4	3686.4	3716.4	3708.3
27.5°	3449.0	3454.5	3569.1	3743.7	3942.9	4054.8	4046.6	3907.5	3771.0	3773.7	3779.2
30°	3732.8	3705.5	3831.0	3989.3	4185.8	4286.7	4300.4	4101.2	3918.4	3863.8	3877.4
32.5°	4005.7	4038.4	4147.6	4327.7	4472.3	4529.6	4499.6	4322.2	4084.8	4011.1	4019.3
35°	4355.0	4349.5	4499.6	4652.4	4761.5	4772.4	4747.9	4488.7	4264.9	4169.4	4131.2
37.5°	4728.8	4777.9	4876.1	5001.6	5116.3	5121.7	4988.0	4780.6	4505.0	4346.8	4393.2
40°	5146.3	5200.8	5271.8	5454.6	5539.2	5451.9	5315.4	5034.4	4747.9	4608.7	4630.5
42.5°	5514.6	5539.2	5683.8	5899.4	5940.3	5902.1	5700.2	5359.1	5026.2	4873.4	4884.3
45°	5853.0	5885.7	6074.0	6267.7	6363.3	6297.8	6063.1	5738.4	5350.9	5219.9	5168.1
47.5°	6164.1	6229.5	6412.4	6611.6	6758.9	6764.4	6475.1	6082.2	5672.9	5501.0	5498.3
50°	6374.2	6469.7	6649.8	6876.2	7091.8	7176.4	6887.2	6464.2	6024.9	5842.1	5823.0
52.5°	6488.8	6587.0	6767.1	7119.1	7359.2	7490.2	7353.8	6821.7	6436.9	6245.9	6215.9
55°	6349.6	6415.1	6709.8	7203.7	7574.8	7790.3	7700.3	7315.6	6846.2	6690.7	6718.0
57.5°	5757.5	5893.9	6256.8	6873.5	7569.3	8098.7	8090.5	7782.2	7318.3	7170.9	7176.4
60°	4739.7	4854.3	5301.8	6164.1	7263.7	8224.2	8513.4	8235.1	7847.6	7675.7	7670.3
62.5°	3345.3	3490.0	4008.4	4949.8	6363.3	8049.6	8999.1	8805.4	8366.1	8240.6	8287.0
65°	1871.9	1959.2	2439.4	3290.8	4848.8	7089.1	9086.5	9397.5	8892.7	8701.7	8709.9
67.5°	1001.4	1034.2	1257.9	1727.2	2966.1	5465.5	8205.1	9738.6	9463.0	9132.8	9081.0
70°	687.6	698.5	755.8	884.1	1402.5	3268.9	6188.6	9130.1	9891.4	9441.2	9528.5
72.5°	581.2	575.7	589.4	603.0	734.0	1462.6	3631.9	7026.3	9337.5	9168.3	9135.6
75°	504.8	502.1	507.5	493.9	510.3	644.0	1607.2	4379.5	6835.3	7629.4	7752.1
77.5°	417.5	420.2	422.9	409.3	403.8	425.7	646.7	1923.7	3364.4	3713.7	4005.7
80°	316.5	322.0	343.8	330.2	308.3	311.1	382.0	644.0	965.9	875.9	903.2
82.5°	215.6	218.3	264.7	248.3	231.9	210.1	245.6	332.9	376.6	286.5	251.0
85°	152.8	150.1	171.9	158.3	147.3	106.4	147.3	188.3	226.5	141.9	128.2
87.5°	35.5	35.5	70.9	57.3	54.6	43.7	57.3	73.7	98.2	62.8	57.3
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°	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2	2592.2
2.5°	2641.3	2616.8	2616.8	2611.3	2589.5	2584.0	2564.9	2570.4	2556.8	2543.1
5°	2734.1	2701.4	2701.4	2655.0	2611.3	2605.9	2584.0	2584.0	2562.2	2567.7
7.5°	2862.4	2832.4	2783.2	2742.3	2682.3	2657.7	2616.8	2611.3	2605.9	2595.0
10°	3015.2	2977.0	2927.9	2843.3	2794.2	2747.8	2706.8	2649.5	2635.9	2638.6
12.5°	3222.6	3162.5	3056.1	2982.4	2919.7	2859.6	2799.6	2715.0	2695.9	2704.1
15°	3369.9	3293.5	3187.1	3159.8	3075.2	3001.5	2903.3	2807.8	2775.1	2766.9
17.5°	3490.0	3427.2	3364.4	3323.5	3255.3	3165.3	3028.8	2919.7	2846.0	2837.8
20°	3588.2	3506.3	3492.7	3517.3	3432.7	3372.6	3206.2	3072.5	2974.2	2933.3
22.5°	3648.2	3596.4	3634.6	3656.4	3651.0	3550.0	3378.1	3222.6	3099.8	3061.6
25°	3713.7	3653.7	3790.1	3863.8	3882.9	3716.4	3582.7	3378.1	3258.0	3233.5
27.5°	3746.5	3768.3	3926.6	4082.1	4068.4	3940.2	3760.1	3577.3	3481.8	3438.1
30°	3842.0	3877.4	4117.6	4292.2	4294.9	4169.4	4033.0	3825.6	3719.2	3700.1
32.5°	4013.9	4057.5	4314.0	4499.6	4532.3	4436.8	4300.4	4172.1	4063.0	4019.3
35°	4144.8	4256.7	4546.0	4715.1	4802.5	4745.2	4668.7	4535.0	4420.4	4382.2
37.5°	4333.1	4488.7	4767.0	4996.2	5094.4	5089.0	5031.7	4887.0	4791.5	4758.8
40°	4603.3	4758.8	5012.6	5315.4	5498.3	5490.1	5457.3	5345.5	5203.6	5187.2
42.5°	4889.8	5018.0	5348.2	5694.7	5956.7	5929.4	5842.1	5711.1	5612.9	5591.0
45°	5168.1	5367.3	5672.9	6117.7	6314.1	6382.4	6278.7	6054.9	5943.0	5929.4
47.5°	5517.4	5675.6	6057.6	6456.0	6748.0	6758.9	6581.5	6374.2	6169.5	6213.2
50°	5828.4	6038.5	6426.0	6862.6	7211.9	7086.3	6859.9	6600.6	6453.3	6396.0
52.5°	6161.3	6417.8	6868.1	7312.8	7506.6	7381.0	7012.7	6723.4	6499.7	6475.1
55°	6647.0	6780.7	7370.1	7711.2	7774.0	7509.3	6966.3	6557.0	6267.7	6196.8
57.5°	7140.9	7296.5	7812.2	8106.9	8041.4	7438.3	6666.1	6033.1	5653.8	5552.8
60°	7640.3	7831.3	8265.1	8535.3	8196.9	6949.9	5817.5	5001.6	4559.6	4469.6
62.5°	8196.9	8445.2	8832.7	8928.2	7735.8	5984.0	4616.9	3610.0	3162.5	3012.4
65°	8690.8	8944.6	9422.1	8846.3	6756.2	4464.1	2985.2	2062.9	1732.7	1612.6
67.5°	9097.4	9383.9	9618.6	7828.5	4947.1	2614.1	1555.3	1086.0	963.2	919.6
70°	9419.4	9896.9	8800.0	5754.8	2826.9	1274.3	840.4	714.9	698.5	687.6
72.5°	9138.3	9075.5	6570.6	3320.8	1238.8	701.3	608.5	589.4	586.7	589.4
75°	7473.8	6666.1	3929.3	1443.5	622.1	507.5	504.8	496.6	510.3	510.3
77.5°	3626.4	3170.7	1642.7	619.4	409.3	398.4	412.0	412.0	412.0	412.0
80°	840.4	930.5	586.7	376.6	297.4	297.4	327.4	330.2	316.5	311.1
82.5°	286.5	382.0	322.0	237.4	196.5	221.0	248.3	253.8	210.1	212.8
85°	141.9	223.8	174.6	136.4	101.0	136.4	161.0	169.2	144.6	139.2
87.5°	65.5	98.2	65.5	46.4	35.5	49.1	46.4	38.2	21.8	21.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)