

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: P479194

Luminaire Tested: **IFLD-M-SA4E-722-U-5MQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479194
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-5MQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5MQ distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

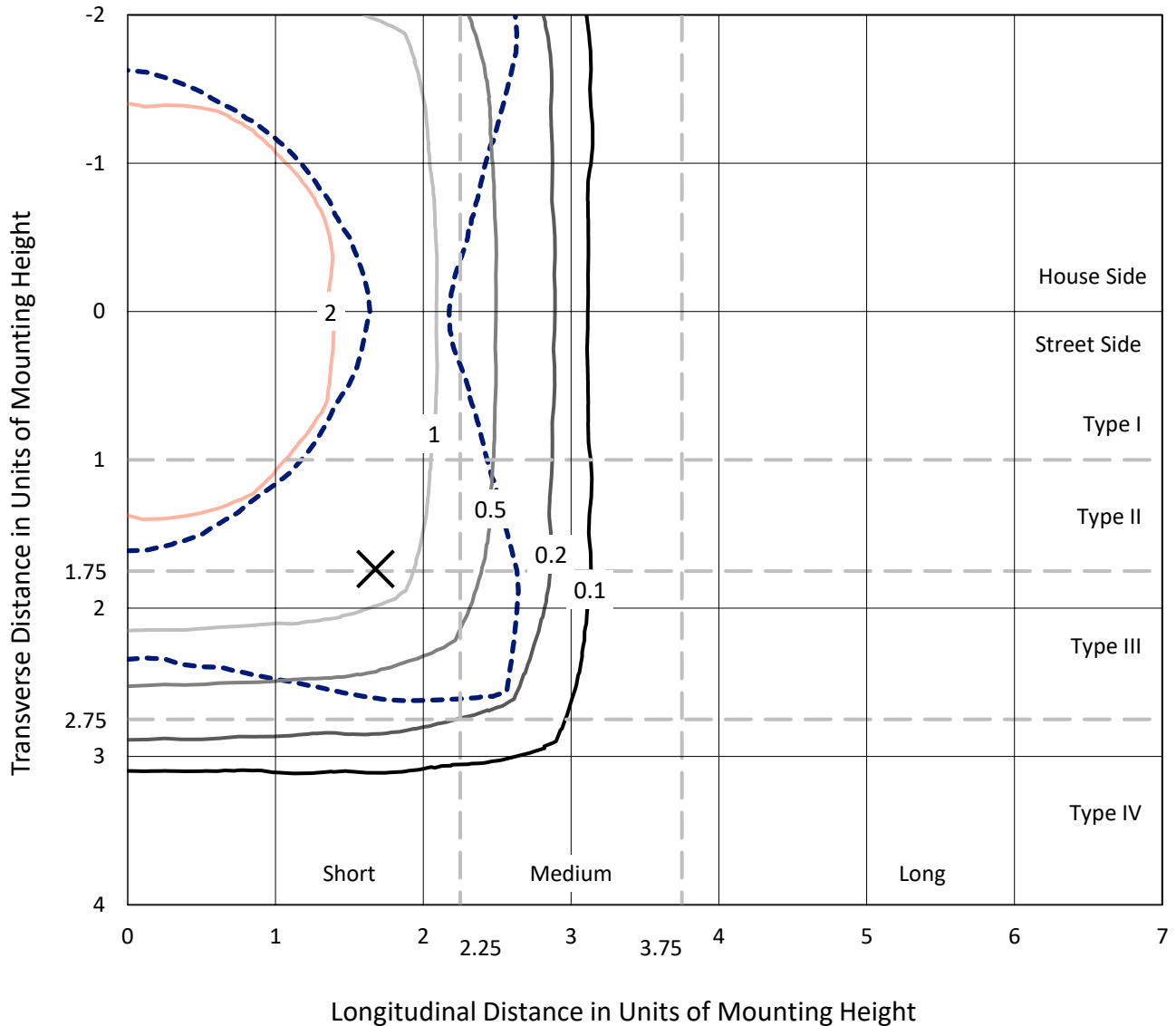
Lumens per Lamp: N/A
Luminaire Lumens: 26919.2 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 314.8
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

REPORT NUMBER: P479194
 CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

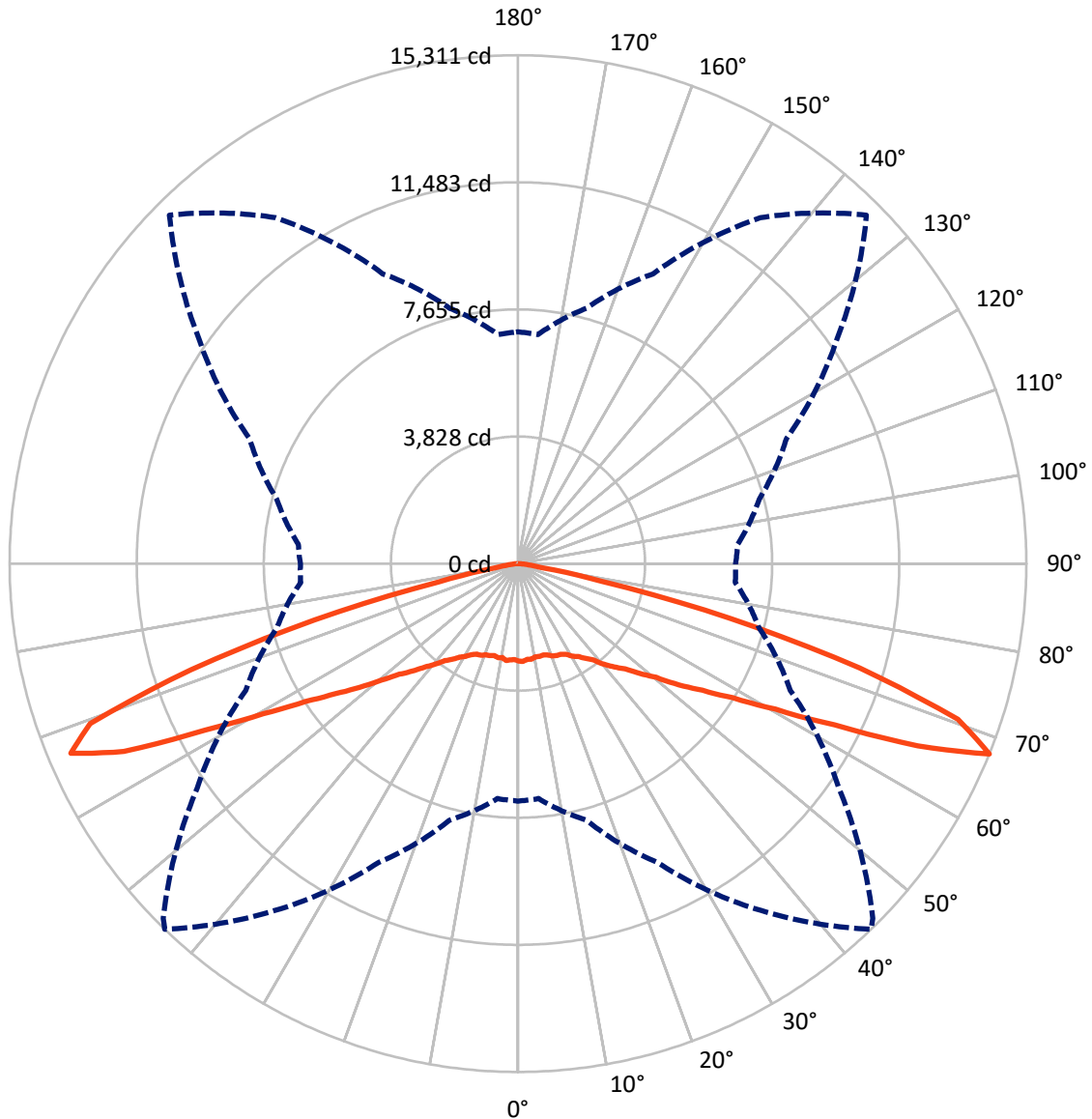
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

REPORT NUMBER: P479194
CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479194

CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

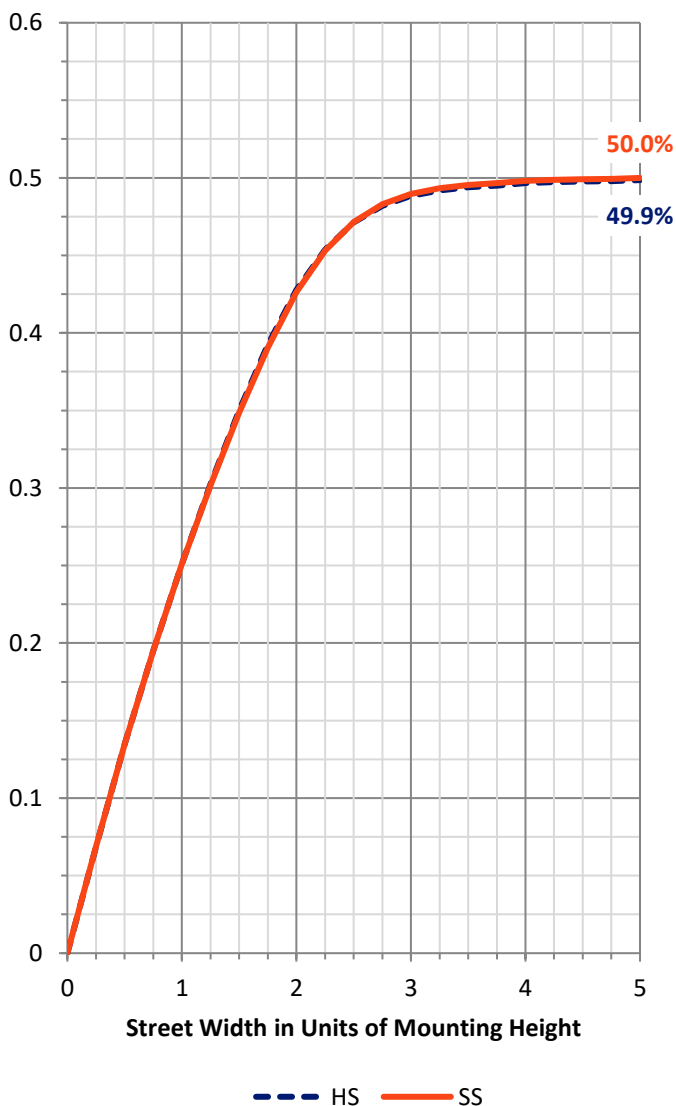
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13425.1	0.0	13425.1
	% Fixture	49.9	0.0	49.9
Street Side	Lumens	13494.1	0.0	13494.1
	% Fixture	50.1	0.0	50.1
Total	Lumens	26919.2	0.0	26919.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.3	1.0
10°-20°	812.9	3.0
20°-30°	1382.4	5.1
30°-40°	2191.9	8.1
40°-50°	3574.0	13.3
50°-60°	6103.9	22.7
60°-70°	9284.0	34.5
70°-80°	3129.3	11.6
80°-90°	162.5	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°	26919.2	100.0
0°-180°	26919.2	100.0

Coefficient of Utilization



REPORT NUMBER: P479194

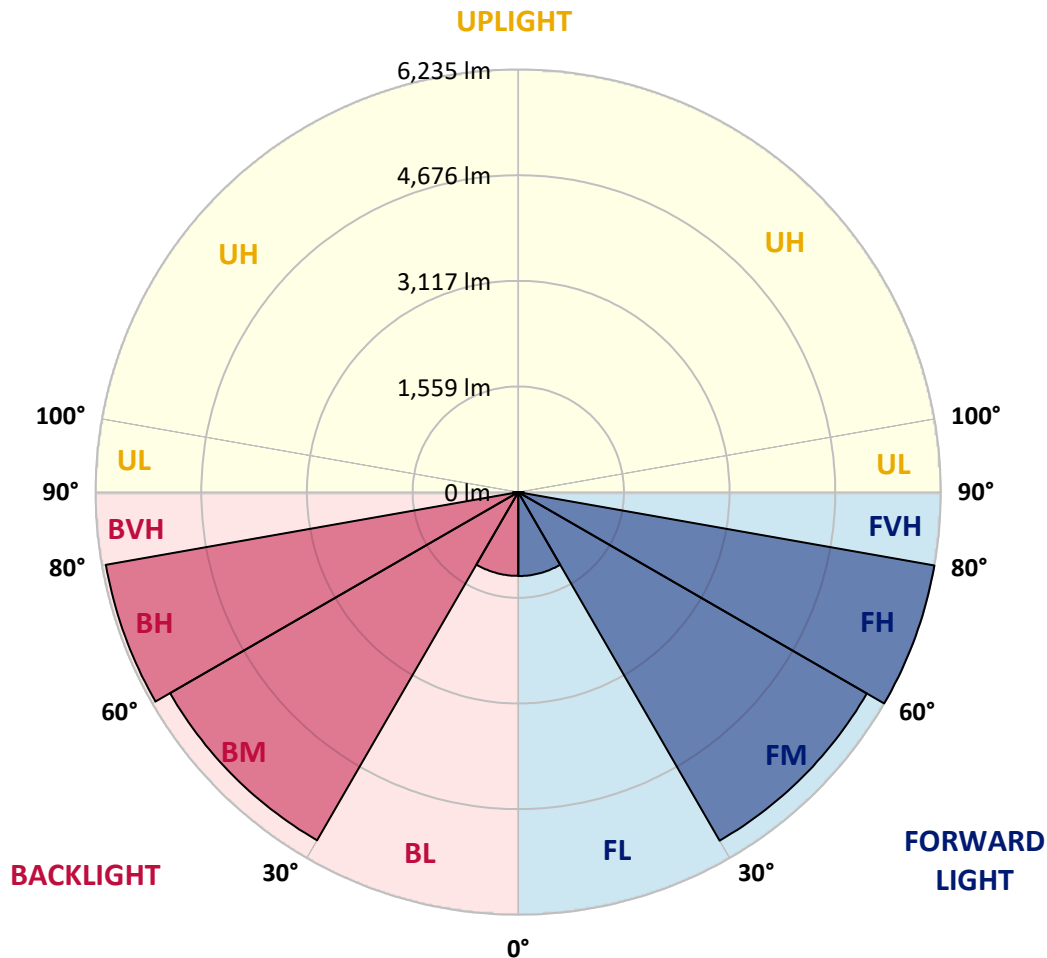
CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1238.1	4.6			
FM (30°-60°)	5938.1	22.1			
FH (60°-80°)	6234.8	23.2			G3/7500
FVH (80°-90°)	83.1	0.3			G1/100
BL (0°-30°)	1235.5	4.6	B3/2500		
BM (30°-60°)	5931.7	22.0	B4/8500		
BH (60°-80°)	6178.6	23.0	B5		G3/7500
BVH (80°-90°)	79.4	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





REPORT NUMBER: P479194
 CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2872.9	2906.7	2931.2	2928.2	2937.4	2946.6	2934.3	2952.8	2940.5	2962.0	2974.3
5°	2928.2	2919.0	2922.0	2903.6	2946.6	2897.4	2897.4	2922.0	2952.8	2915.9	2937.4
7.5°	2894.4	2888.2	2872.9	2900.5	2909.7	2909.7	2934.3	2888.2	2940.5	2952.8	2955.8
10°	2857.5	2823.7	2869.8	2897.4	2903.6	2854.4	2875.9	2888.2	2872.9	2888.2	2897.4
12.5°	2826.8	2845.2	2845.2	2845.2	2836.0	2869.8	2891.3	2888.2	2857.5	2885.2	2836.0
15°	2823.7	2814.5	2842.1	2866.7	2851.4	2857.5	2866.7	2894.4	2836.0	2848.3	2848.3
17.5°	2820.6	2832.9	2842.1	2839.1	2891.3	2891.3	2882.1	2863.6	2909.7	2885.2	2851.4
20°	2832.9	2823.7	2848.3	2857.5	2894.4	2968.1	2940.5	2925.1	2900.5	2869.8	2869.8
22.5°	2848.3	2842.1	2875.9	2915.9	2986.5	3005.0	3001.9	2983.5	2940.5	2903.6	2897.4
25°	2903.6	2848.3	2885.2	2962.0	2986.5	3023.4	3048.0	3023.4	2965.0	2974.3	2919.0
27.5°	2986.5	2977.3	3026.5	3078.7	3057.2	3091.0	3069.5	3087.9	3091.0	3044.9	2989.6
30°	3084.9	3057.2	3087.9	3189.3	3198.6	3235.4	3198.6	3149.4	3164.8	3124.8	3097.2
32.5°	3226.2	3217.0	3275.4	3343.0	3355.3	3336.8	3318.4	3346.0	3281.5	3250.8	3201.6
35°	3318.4	3358.3	3429.0	3481.2	3521.2	3502.7	3512.0	3484.3	3499.7	3435.1	3413.6
37.5°	3591.8	3576.5	3591.8	3681.0	3690.2	3681.0	3690.2	3720.9	3699.4	3644.1	3588.8
40°	3849.9	3825.4	3862.2	3963.6	3957.5	3988.2	3926.8	3960.6	3960.6	3856.1	3834.6
42.5°	4043.5	4126.5	4169.5	4252.5	4283.2	4255.5	4243.2	4249.4	4317.0	4194.1	4148.0
45°	4443.0	4439.9	4568.9	4615.0	4529.0	4522.8	4498.3	4572.0	4618.1	4547.4	4529.0
47.5°	4876.2	4897.7	4971.4	4989.9	5042.1	4946.9	4946.9	4956.1	5118.9	4953.0	4867.0
50°	5266.4	5294.1	5441.5	5586.0	5487.6	5386.2	5426.2	5475.3	5564.4	5407.7	5334.0
52.5°	5739.6	5890.1	5988.5	6065.3	6135.9	6065.3	5973.1	6028.4	6203.5	5994.6	5902.4
55°	6421.7	6541.5	6633.7	6775.0	6833.4	6738.2	6729.0	6722.8	6821.1	6599.9	6473.9
57.5°	7183.7	7134.5	7282.0	7500.2	7712.2	7620.0	7592.3	7598.5	7623.1	7309.7	7214.4
60°	8130.0	8185.4	8360.5	8551.0	8775.3	8904.3	8723.1	8618.6	8640.1	8213.0	8065.5
62.5°	8670.8	8793.7	9190.1	9844.5	10296.2	10698.7	10726.4	10047.3	9592.6	8763.0	8136.2
65°	8409.7	8391.2	9137.9	10348.5	12059.9	13230.5	13055.4	11408.5	9820.0	8501.8	7659.9
67.5°	7153.0	7103.8	8007.1	9927.5	12754.3	15310.7	15111.0	11792.6	9051.8	7521.7	6569.2
70°	4608.9	4596.6	5576.7	7567.8	11387.0	14057.1	14130.8	10711.0	7368.0	5509.1	4565.9
72.5°	1674.6	1776.0	2344.4	4068.1	7733.7	10754.0	10800.1	7930.3	4237.1	2547.2	1877.3
75°	617.6	636.0	740.5	1321.2	3524.3	6603.0	6775.0	3846.9	1505.6	829.6	676.0
77.5°	356.4	359.5	396.4	491.6	1044.7	2577.9	2682.4	1167.6	583.8	442.5	408.7
80°	242.7	239.7	279.6	319.5	417.9	731.3	777.4	488.5	368.7	307.3	258.1
82.5°	141.3	150.6	205.9	227.4	255.0	322.6	328.8	304.2	276.5	227.4	169.0
85°	86.0	70.7	113.7	126.0	147.5	144.4	144.4	165.9	178.2	159.8	95.3
87.5°	21.5	21.5	27.7	30.7	39.9	30.7	33.8	64.5	86.0	79.9	49.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P479194
 CATALOG NUMBER: IFLD-M-SA4E-722-U-5MQ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5	2940.5
2.5°	2946.6	2937.4	2943.5	2977.3	2955.8	2891.3	2906.7	2940.5	2912.8	2897.4	2894.4
5°	2934.3	2952.8	2931.2	2937.4	2958.9	2906.7	2915.9	2958.9	2940.5	2946.6	2912.8
7.5°	2937.4	2946.6	2928.2	2900.5	2900.5	2943.5	2919.0	2925.1	2897.4	2943.5	2882.1
10°	2919.0	2894.4	2872.9	2888.2	2882.1	2869.8	2860.6	2879.0	2851.4	2891.3	2848.3
12.5°	2863.6	2869.8	2863.6	2857.5	2869.8	2900.5	2851.4	2857.5	2814.5	2820.6	2842.1
15°	2842.1	2860.6	2854.4	2888.2	2903.6	2857.5	2894.4	2857.5	2823.7	2805.3	2839.1
17.5°	2851.4	2879.0	2869.8	2894.4	2866.7	2900.5	2906.7	2891.3	2851.4	2836.0	2851.4
20°	2860.6	2851.4	2863.6	2906.7	2946.6	2912.8	2912.8	2903.6	2866.7	2845.2	2845.2
22.5°	2882.1	2866.7	2885.2	2919.0	2931.2	2983.5	2937.4	2915.9	2854.4	2799.1	2851.4
25°	2925.1	2934.3	2946.6	2934.3	3001.9	2995.8	2989.6	2974.3	2879.0	2882.1	2872.9
27.5°	3008.1	2955.8	2971.2	3044.9	3054.1	3078.7	3048.0	3075.7	2974.3	2977.3	2915.9
30°	3109.5	3054.1	3103.3	3167.8	3164.8	3210.8	3195.5	3201.6	3131.0	3091.0	3008.1
32.5°	3220.1	3213.9	3244.6	3284.6	3300.0	3324.5	3321.5	3321.5	3278.4	3174.0	3189.3
35°	3343.0	3386.0	3422.9	3465.9	3472.0	3502.7	3459.7	3465.9	3422.9	3346.0	3370.6
37.5°	3585.7	3582.6	3622.6	3674.8	3681.0	3656.4	3690.2	3674.8	3616.4	3564.2	3524.3
40°	3868.4	3806.9	3843.8	3966.7	3975.9	3932.9	3929.8	3926.8	3883.7	3770.1	3745.5
42.5°	4114.2	4194.1	4187.9	4227.9	4200.2	4178.7	4255.5	4212.5	4178.7	4058.9	4037.4
45°	4430.7	4455.2	4535.1	4664.2	4532.1	4532.1	4584.3	4550.5	4532.1	4443.0	4360.0
47.5°	4824.0	4845.5	5005.2	5014.5	4928.4	4870.0	5032.9	5039.0	4962.2	4894.6	4793.2
50°	5284.8	5294.1	5438.5	5586.0	5490.7	5380.1	5546.0	5610.5	5438.5	5346.3	5220.3
52.5°	5791.8	5764.2	5884.0	6160.5	6068.3	6034.5	6212.8	6228.1	5994.6	5850.2	5884.0
55°	6375.6	6338.7	6664.4	6851.9	6793.5	6732.0	6811.9	6848.8	6661.4	6424.8	6507.7
57.5°	7131.5	7149.9	7312.7	7497.1	7592.3	7607.7	7644.6	7607.7	7417.2	7177.5	7100.7
60°	7887.3	7942.6	8259.1	8606.3	8637.0	8907.4	8858.3	8673.9	8403.5	8062.5	8077.8
62.5°	8166.9	8120.8	8630.9	9478.9	10201.0	10695.7	10477.5	9823.0	9196.2	8575.6	8621.7
65°	7604.6	7718.3	8412.7	9740.1	11307.1	13264.3	12102.9	10293.1	9027.2	8225.3	8136.2
67.5°	6553.8	6639.8	7521.7	8922.8	11703.5	14843.6	12717.4	9629.5	7961.1	6922.5	6977.8
70°	4565.9	4608.9	5472.3	7309.7	10612.7	14007.9	11473.0	7395.7	5496.8	4381.5	4443.0
72.5°	1837.4	1941.9	2510.3	4403.0	7835.1	10643.4	7724.5	3880.7	2279.9	1696.1	1539.4
75°	679.0	682.1	801.9	1514.8	3720.9	6689.0	3484.3	1247.5	728.2	596.1	568.4
77.5°	393.3	390.2	417.9	546.9	1078.5	2611.7	989.4	488.5	396.4	356.4	341.1
80°	245.8	242.7	285.8	362.6	473.2	715.9	417.9	304.2	267.3	230.4	230.4
82.5°	156.7	159.8	224.3	267.3	288.8	316.5	242.7	215.1	199.7	132.1	129.0
85°	101.4	92.2	156.7	178.2	159.8	141.3	135.2	113.7	104.5	64.5	70.7
87.5°	46.1	49.2	79.9	89.1	58.4	33.8	33.8	24.6	24.6	15.4	15.4
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)