

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: P478420

Luminaire Tested: **IFLD-L-SA8A-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478420
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

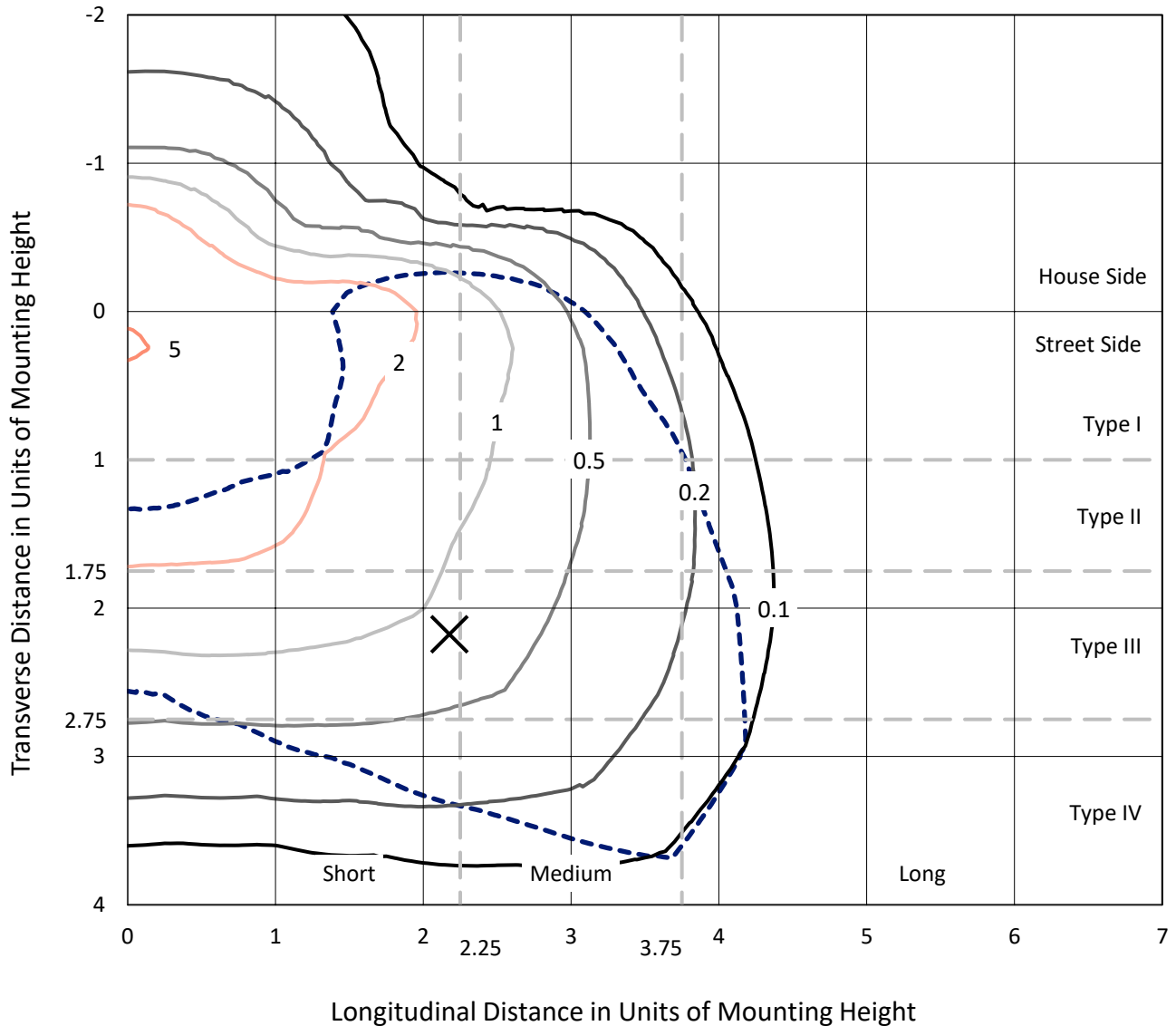
Lumens per Lamp: N/A
Luminaire Lumens: 25505.1 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

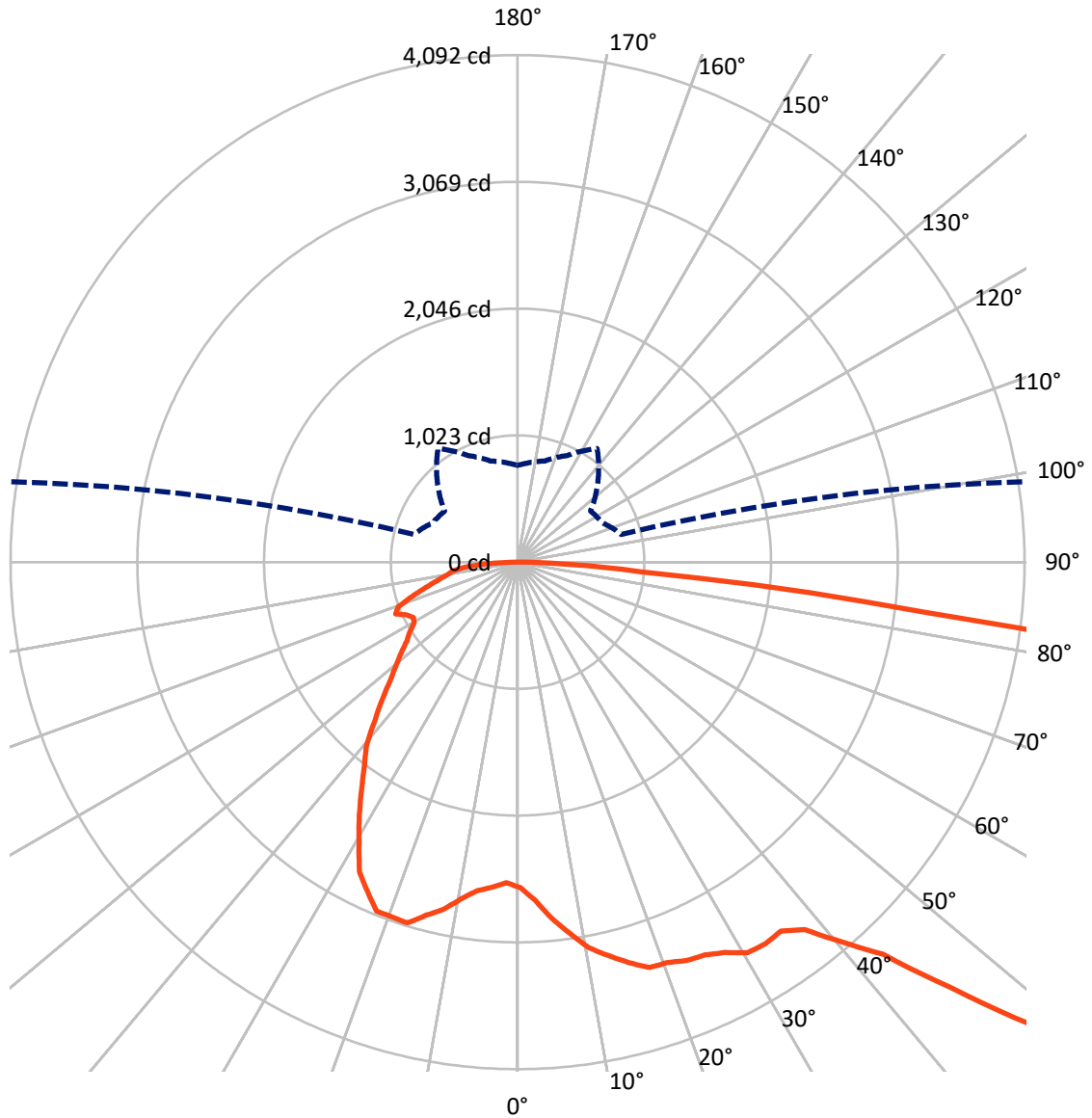
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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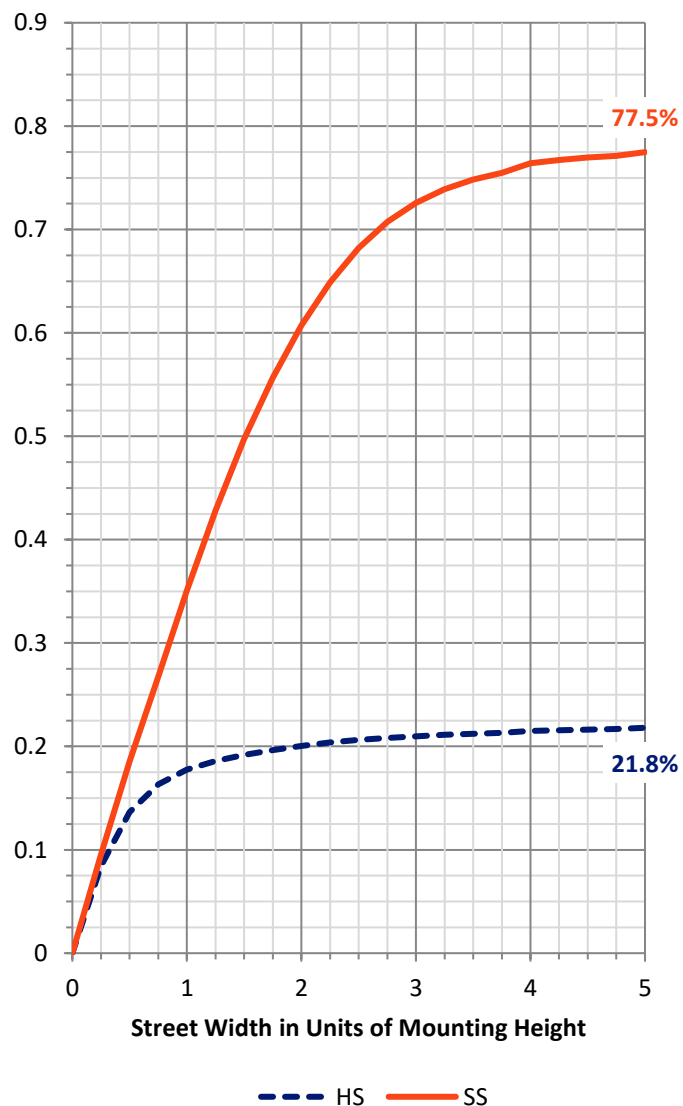
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5677.6	0.0	5677.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19827.5	0.0	19827.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	25505.1	0.0	25505.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.8	1.1
10°-20°	894.2	3.5
20°-30°	1510.1	5.9
30°-40°	2089.7	8.2
40°-50°	2989.1	11.7
50°-60°	4821.1	18.9
60°-70°	7110.5	27.9
70°-80°	5163.4	20.2
80°-90°	658.2	2.6
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°	25505.1	100.0
0°-180°	25505.1	100.0

Coefficient of Utilization



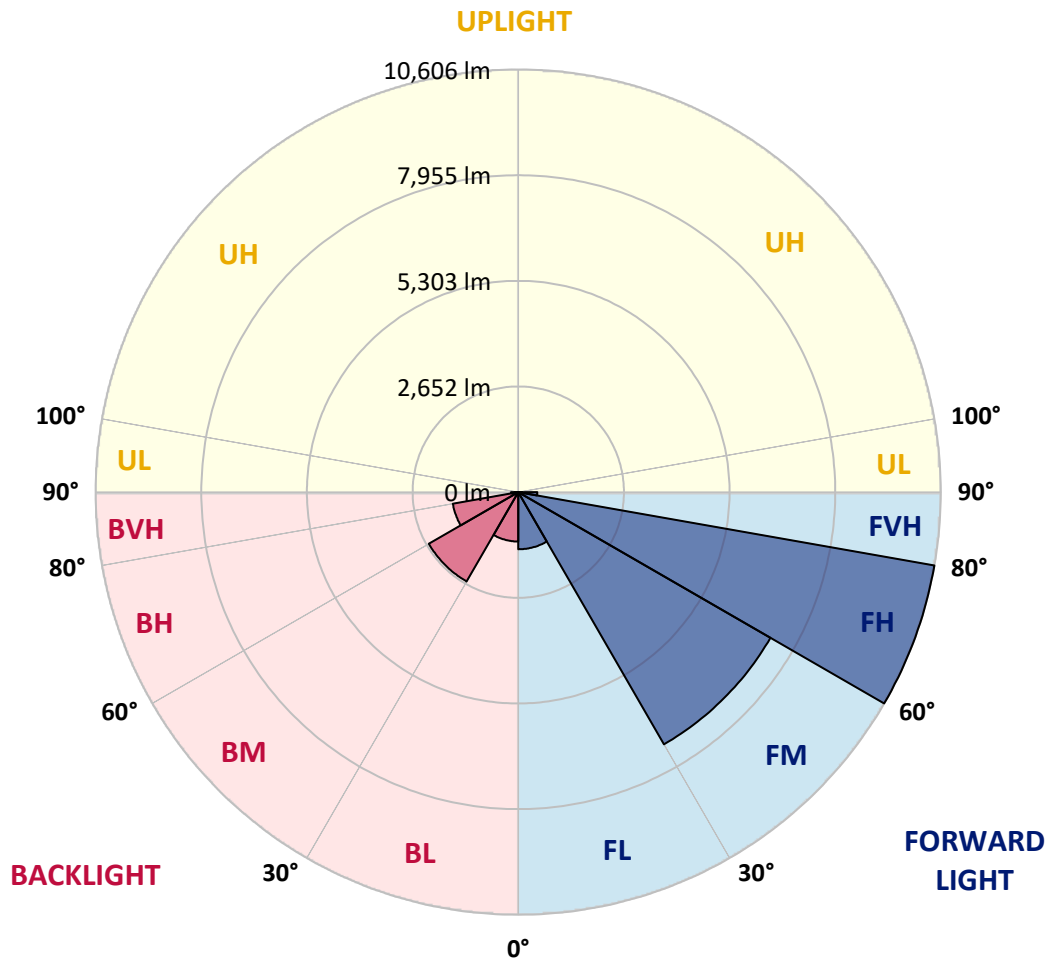
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1433.4	5.6			
FM (30°-60°)	7308.9	28.7			
FH (60°-80°)	10606.2	41.6			G4/12000
FVH (80°-90°)	479.1	1.9			G3/500
BL (0°-30°)	1239.7	4.9	B3/2500		
BM (30°-60°)	2591.1	10.2	B3/5000		
BH (60°-80°)	1667.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	179.1	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6
2.5°	2766.8	2783.3	2766.8	2764.1	2736.6	2717.3	2733.8	2709.1	2681.6	2670.6	2645.8
5°	3019.9	3022.6	2992.4	2995.1	2937.4	2876.8	2887.9	2813.6	2733.8	2703.6	2654.1
7.5°	3278.4	3248.1	3204.1	3190.4	3099.6	3033.6	3025.4	2959.4	2835.6	2766.8	2698.1
10°	3446.2	3457.2	3385.7	3325.2	3248.1	3168.4	3165.6	3041.9	2970.4	2868.6	2780.6
12.5°	3594.7	3597.4	3536.9	3440.7	3344.4	3245.4	3259.1	3204.1	3083.1	2986.9	2898.9
15°	3710.2	3693.7	3627.7	3539.7	3437.9	3360.9	3352.7	3305.9	3204.1	3124.4	2978.6
17.5°	3743.2	3735.0	3668.9	3575.4	3476.4	3418.7	3440.7	3363.7	3322.4	3250.9	3110.6
20°	3679.9	3660.7	3649.7	3545.2	3473.7	3468.2	3448.9	3465.4	3396.7	3330.7	3228.9
22.5°	3564.4	3556.2	3550.7	3468.2	3435.2	3459.9	3492.9	3517.7	3506.7	3443.4	3327.9
25°	3446.2	3484.7	3448.9	3410.4	3457.2	3520.4	3512.2	3591.9	3591.9	3572.7	3476.4
27.5°	3528.7	3503.9	3476.4	3457.2	3473.7	3572.7	3567.2	3663.4	3699.2	3663.4	3553.4
30°	3735.0	3710.2	3630.4	3545.2	3523.2	3630.4	3657.9	3743.2	3759.7	3671.7	3578.2
32.5°	4122.8	4109.0	3982.5	3732.2	3597.4	3657.9	3671.7	3768.0	3754.2	3699.2	3660.7
35°	4697.6	4650.8	4474.8	4051.2	3754.2	3693.7	3657.9	3735.0	3787.2	3759.7	3724.0
37.5°	5327.4	5275.1	5057.9	4521.5	4037.5	3790.0	3762.5	3825.7	3886.2	3872.5	3798.2
40°	5929.7	5929.7	5734.4	5110.1	4458.3	4023.7	4029.2	3957.7	4012.7	3988.0	4001.7
42.5°	6523.8	6501.8	6422.0	5800.5	4909.3	4414.3	4326.3	4147.5	4246.5	4238.3	4257.5
45°	7126.1	7109.6	7087.6	6444.0	5555.7	4942.4	4895.6	4573.8	4664.6	4626.1	4708.6
47.5°	7607.4	7626.7	7626.7	7161.9	6246.0	5646.4	5577.7	5068.9	5242.1	5261.4	5280.6
50°	8017.2	8025.5	8017.2	7846.7	7016.1	6452.3	6312.0	5795.0	5968.2	6119.5	6295.5
52.5°	8583.8	8594.8	8556.3	8490.3	8061.2	7299.4	7142.6	6567.8	6922.6	7082.1	7398.4
55°	9282.4	9199.9	9128.4	9177.9	9065.1	8231.7	8069.5	7365.4	7899.0	8110.7	8743.3
57.5°	9411.6	9483.2	9664.7	10058.0	10220.2	9139.4	9045.8	8344.5	9001.8	9186.1	10242.2
60°	9868.2	9749.9	10195.5	11048.1	11229.6	10322.0	10225.7	9417.1	10099.2	10291.7	11625.7
62.5°	10168.0	10162.5	10822.6	11834.7	12247.2	11548.7	11353.4	10811.6	11284.6	11471.6	13132.8
65°	10080.0	10159.7	11331.4	12296.7	13097.1	12943.1	12830.3	12010.7	12635.0	12618.5	14114.7
67.5°	9276.9	9502.4	11009.6	12629.5	14362.2	14642.8	14607.0	13696.7	13732.4	13383.1	14552.0
70°	8163.0	8086.0	9648.2	12283.0	14994.8	16658.8	16650.5	14950.8	14719.8	13550.9	13297.9
72°	6270.8	6185.5	7469.9	10547.5	14662.0	17464.6	17712.2	15819.9	14708.8	12855.1	10984.8
72.5°	5693.2	5618.9	6897.8	9928.7	14293.5	17673.6	17558.1	15852.9	14593.3	12527.8	10261.5
75°	2621.1	2535.8	3446.2	6078.2	11149.9	15660.4	16053.7	14835.3	12745.0	9972.7	6147.0
77.5°	781.1	756.3	1108.4	2453.3	6479.8	11537.7	11688.9	11193.9	8897.3	5462.2	2280.0
80°	434.6	437.3	572.1	918.6	2849.3	6669.6	7214.1	6914.3	4364.8	1804.2	759.1
82.5°	242.0	255.8	357.5	544.6	1309.2	3061.1	3294.9	3176.6	1578.7	847.1	415.3
85°	126.5	132.0	187.0	291.5	742.6	968.1	995.6	1067.1	819.6	577.6	222.8
87.5°	49.5	49.5	68.8	121.0	275.0	299.8	269.5	327.3	470.3	374.0	110.0
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°	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6	2626.6
2.5°	2667.8	2645.8	2643.1	2607.3	2618.3	2588.1	2590.8	2585.3	2588.1	2582.6	2568.8
5°	2654.1	2637.6	2590.8	2621.1	2593.6	2632.1	2662.3	2651.3	2659.6	2656.8	2659.6
7.5°	2673.3	2651.3	2645.8	2629.3	2654.1	2670.6	2695.3	2764.1	2758.6	2766.8	2783.3
10°	2731.1	2706.3	2689.8	2714.6	2700.8	2753.1	2780.6	2816.3	2879.6	2882.4	2849.3
12.5°	2843.8	2827.3	2794.3	2799.8	2846.6	2863.1	2879.6	2901.6	2942.9	2934.6	2964.9
15°	2973.1	2937.4	2918.1	2912.6	2923.6	2942.9	2940.1	2962.1	2984.1	3003.4	2995.1
17.5°	3066.6	3019.9	3025.4	3052.9	3050.1	3044.6	3008.9	2997.9	3008.9	3019.9	3014.4
20°	3162.9	3168.4	3127.1	3102.4	3091.4	3036.4	3008.9	2975.9	2942.9	2959.4	2984.1
22.5°	3283.9	3259.1	3198.6	3124.4	3069.4	3036.4	2951.1	2893.4	2893.4	2909.9	2901.6
25°	3421.4	3369.2	3264.6	3129.9	3061.1	2920.9	2860.3	2852.1	2830.1	2854.8	2865.8
27.5°	3528.7	3481.9	3338.9	3110.6	2920.9	2808.1	2772.3	2761.3	2797.1	2799.8	2843.8
30°	3572.7	3558.9	3349.9	3061.1	2777.8	2596.3	2574.3	2623.8	2662.3	2720.1	2722.8
32.5°	3630.4	3635.9	3366.4	2945.6	2590.8	2409.3	2376.3	2436.8	2546.8	2593.6	2629.3
35°	3726.7	3754.2	3352.7	2802.6	2392.8	2219.5	2214.0	2230.5	2337.8	2420.3	2467.0
37.5°	3894.5	3889.0	3349.9	2632.1	2236.0	2054.5	2010.5	2016.0	2087.5	2156.3	2148.0
40°	4120.0	4098.0	3341.7	2409.3	2032.5	1914.2	1840.0	1812.5	1807.0	1787.7	1793.2
42.5°	4428.0	4384.0	3338.9	2183.8	1848.2	1721.7	1669.5	1597.9	1545.7	1446.7	1452.2
45°	4857.1	4780.1	3267.4	1972.0	1666.7	1562.2	1482.4	1430.2	1317.4	1193.6	1193.6
47.5°	5519.9	5269.6	3270.1	1738.2	1490.7	1405.4	1350.4	1259.7	1138.6	1039.6	1028.6
50°	6496.3	5924.2	3176.6	1553.9	1347.7	1289.9	1232.1	1127.6	1012.1	943.4	951.6
52.5°	7755.9	6900.6	3173.9	1388.9	1234.9	1193.6	1130.4	1036.9	951.6	907.6	891.1
55°	9257.6	8193.2	3272.9	1254.2	1119.4	1097.4	1069.9	992.9	910.4	871.9	869.1
57.5°	10795.1	9455.6	3432.4	1157.9	1020.4	1036.9	1017.6	957.1	891.1	847.1	841.6
60°	12162.0	10456.8	3110.6	1042.4	932.4	968.1	995.6	943.4	907.6	904.9	885.6
62.5°	13193.4	10885.8	2365.3	954.4	885.6	951.6	1025.9	1058.9	1042.4	1064.4	1067.1
65°	13570.1	10627.3	1628.2	907.6	849.9	990.1	1155.1	1144.1	1047.9	1006.6	1028.6
67.5°	13042.1	9579.4	1207.4	852.6	825.1	1069.9	1229.4	1091.9	946.1	940.6	924.1
70°	11215.9	8119.0	984.6	794.8	783.8	1025.9	1196.4	1012.1	891.1	855.4	838.9
72°	8935.8	6323.0	863.6	753.6	717.8	915.9	1119.4	948.9	844.4	800.3	781.1
72.5°	8157.5	5861.0	847.1	734.3	704.1	891.1	1080.9	929.6	833.4	794.8	764.6
75°	4474.8	3000.6	745.3	673.8	594.1	770.1	1001.1	871.9	786.6	731.6	726.1
77.5°	1664.0	1163.4	643.6	596.8	514.3	665.6	910.4	827.9	715.1	646.3	632.6
80°	638.1	613.3	525.3	503.3	431.8	583.1	838.9	742.6	607.8	539.1	517.1
82.5°	387.8	357.5	398.8	393.3	330.0	530.8	789.3	695.8	539.1	437.3	423.6
85°	211.8	211.8	277.8	266.8	231.0	423.6	596.8	462.1	341.0	280.5	286.0
87.5°	93.5	110.0	148.5	140.3	126.5	239.3	291.5	244.8	170.5	115.5	123.8
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)