

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: P478483

Luminaire Tested: **IFLD-S-SA6A-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478483
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-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

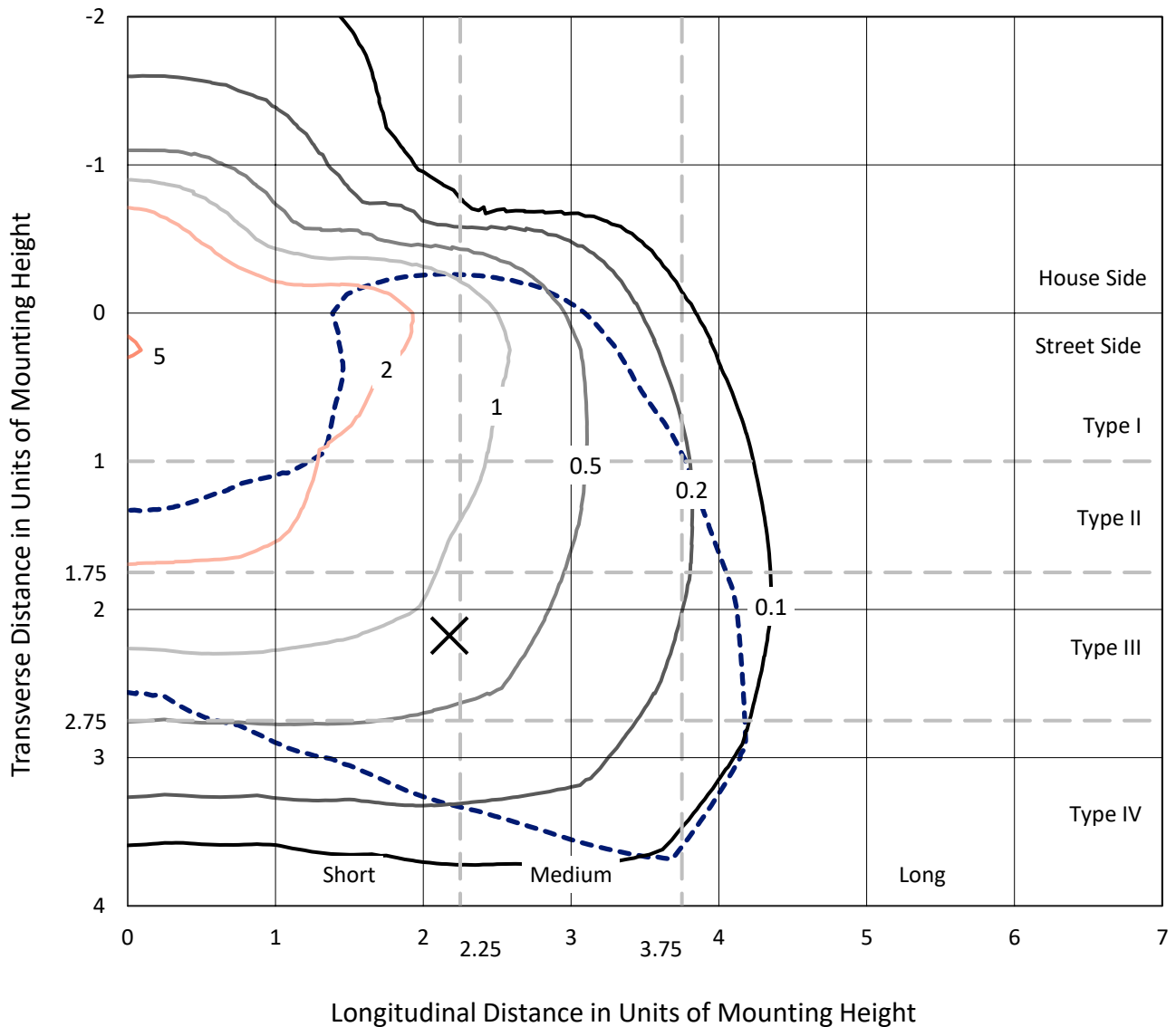
Lumens per Lamp: N/A
Luminaire Lumens: 24842 lumens
Efficiency: N/A
Efficacy: 131.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

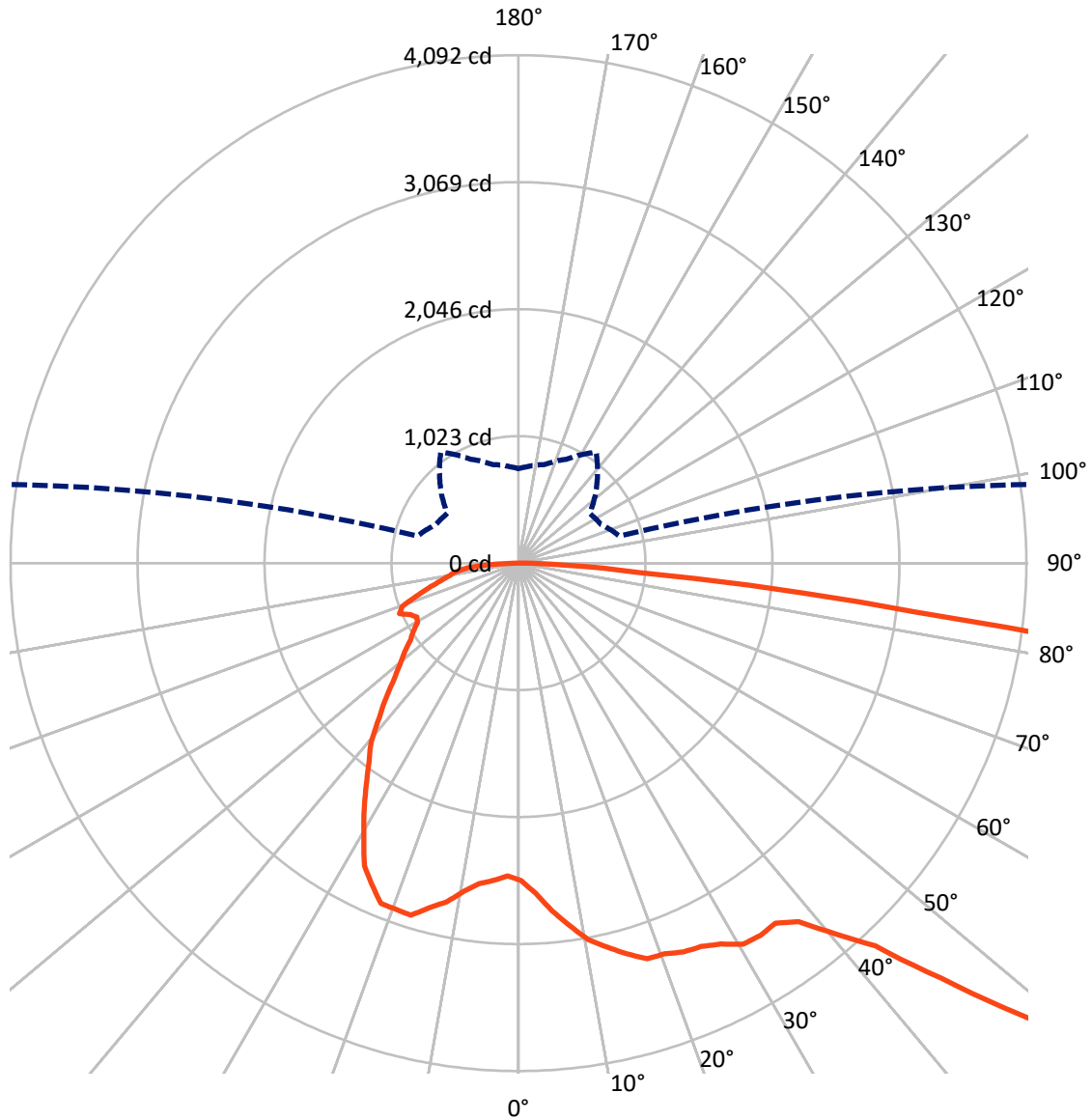
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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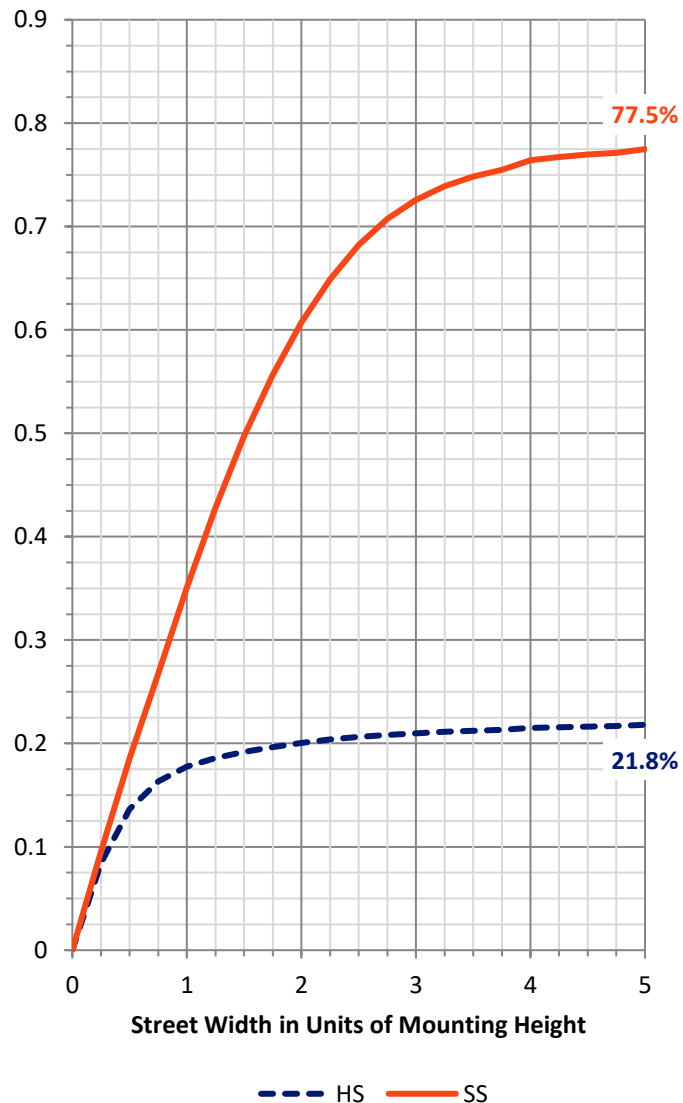
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5530.0	0.0	5530.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	19312.0	0.0	19312.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	24842.0	0.0	24842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.8	1.1
10°-20°	871.0	3.5
20°-30°	1470.8	5.9
30°-40°	2035.4	8.2
40°-50°	2911.4	11.7
50°-60°	4695.8	18.9
60°-70°	6925.6	27.9
70°-80°	5029.2	20.2
80°-90°	641.1	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°	24842.0	100.0
0°-180°	24842.0	100.0

Coefficient of Utilization



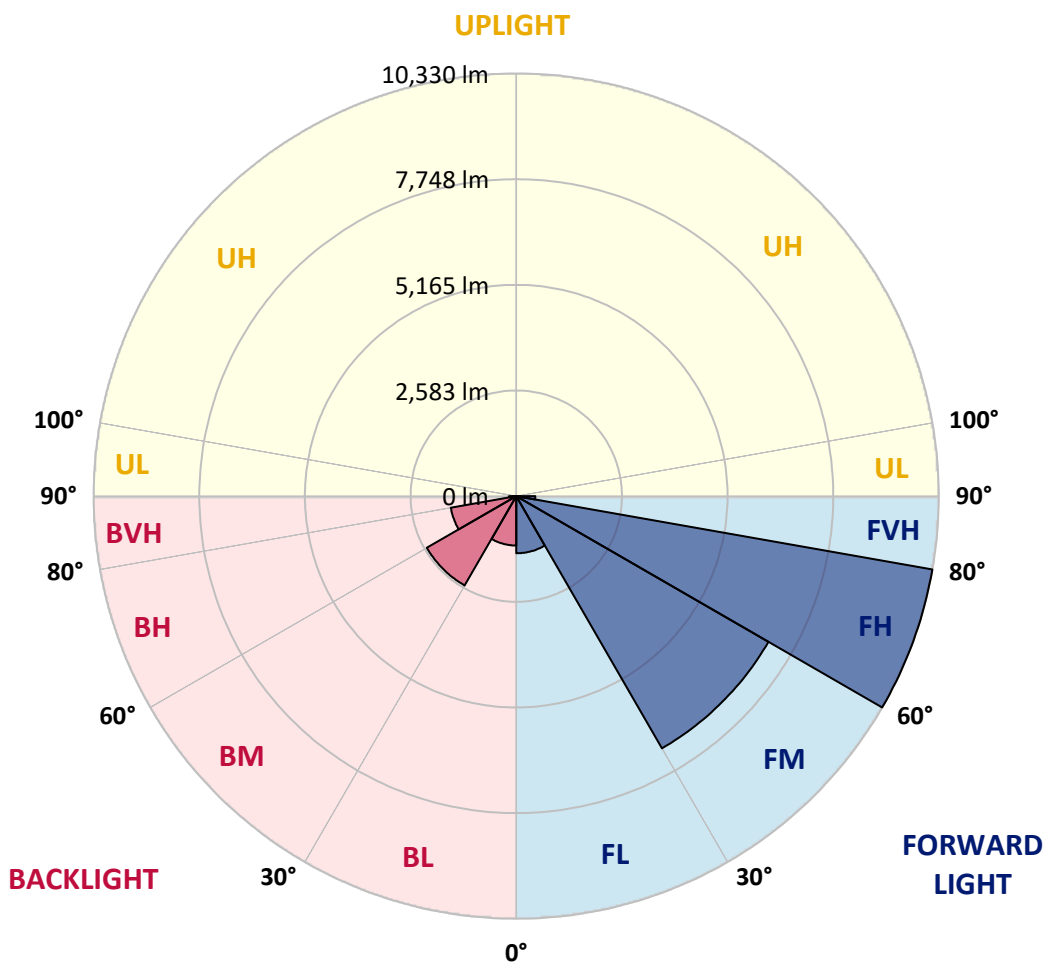
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.1	5.6			
FM (30°-60°)	7118.8	28.7			
FH (60°-80°)	10330.4	41.6			G4/12000
FVH (80°-90°)	466.6	1.9			G3/500
BL (0°-30°)	1207.4	4.9	B3/2500		
BM (30°-60°)	2523.7	10.2	B3/5000		
BH (60°-80°)	1624.4	6.5	B3/2500		G3/2500
BVH (80°-90°)	174.5	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°	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3
2.5°	2694.9	2711.0	2694.9	2692.2	2665.4	2646.7	2662.7	2638.6	2611.9	2601.1	2577.0
5°	2941.3	2944.0	2914.6	2917.2	2861.0	2802.0	2812.8	2740.4	2662.7	2633.3	2585.1
7.5°	3193.2	3163.7	3120.8	3107.4	3019.0	2954.7	2946.7	2882.4	2761.9	2694.9	2627.9
10°	3356.6	3367.3	3297.6	3238.7	3163.7	3086.0	3083.3	2962.8	2893.1	2794.0	2708.3
12.5°	3501.2	3503.9	3445.0	3351.2	3257.4	3161.0	3174.4	3120.8	3003.0	2909.2	2823.5
15°	3613.7	3597.7	3533.4	3447.6	3348.5	3273.5	3265.5	3219.9	3120.8	3043.1	2901.2
17.5°	3645.9	3637.8	3573.5	3482.5	3386.0	3329.8	3351.2	3276.2	3236.0	3166.4	3029.7
20°	3584.3	3565.5	3554.8	3453.0	3383.4	3378.0	3359.2	3375.3	3308.3	3244.1	3144.9
22.5°	3471.8	3463.7	3458.4	3378.0	3345.8	3370.0	3402.1	3426.2	3415.5	3353.9	3241.4
25°	3356.6	3394.1	3359.2	3321.7	3367.3	3428.9	3420.9	3498.5	3498.5	3479.8	3386.0
27.5°	3436.9	3412.8	3386.0	3367.3	3383.4	3479.8	3474.4	3568.2	3603.0	3568.2	3461.0
30°	3637.8	3613.7	3536.0	3453.0	3431.6	3536.0	3562.8	3645.9	3661.9	3576.2	3485.1
32.5°	4015.6	4002.2	3878.9	3635.2	3503.9	3562.8	3576.2	3670.0	3656.6	3603.0	3565.5
35°	4575.4	4529.9	4358.4	3945.9	3656.6	3597.7	3562.8	3637.8	3688.7	3661.9	3627.1
37.5°	5188.9	5138.0	4926.4	4404.0	3932.5	3691.4	3664.6	3726.2	3785.2	3771.8	3699.5
40°	5775.5	5775.5	5585.3	4977.2	4342.4	3919.1	3924.5	3854.8	3908.4	3884.3	3897.7
42.5°	6354.2	6332.7	6255.0	5649.6	4781.7	4299.5	4213.8	4039.7	4136.1	4128.1	4146.8
45°	6940.8	6924.8	6903.3	6276.5	5411.2	4813.8	4768.3	4454.9	4543.3	4505.8	4586.1
47.5°	7409.6	7428.4	7428.4	6975.6	6083.6	5499.6	5432.6	4937.1	5105.8	5124.6	5143.3
50°	7808.8	7816.8	7808.8	7642.7	6833.7	6284.5	6147.9	5644.3	5813.0	5960.4	6131.8
52.5°	8360.6	8371.3	8333.8	8269.5	7851.6	7109.6	6956.9	6397.0	6742.6	6898.0	7206.0
55°	9041.0	8960.7	8891.0	8939.2	8829.4	8017.7	7859.7	7173.9	7693.6	7899.8	8516.0
57.5°	9166.9	9236.6	9413.4	9796.4	9954.5	8901.7	8810.6	8127.5	8767.8	8947.3	9975.9
60°	9611.6	9496.4	9930.4	10760.8	10937.6	10053.6	9959.9	9172.3	9836.6	10024.1	11323.4
62.5°	9903.6	9898.2	10541.2	11527.0	11928.8	11248.4	11058.2	10530.4	10991.2	11173.4	12791.4
65°	9817.9	9895.6	11036.7	11977.0	12756.5	12606.5	12496.7	11698.4	12306.5	12290.4	13747.7
67.5°	9035.7	9255.3	10723.3	12301.1	13988.8	14262.0	14227.2	13340.5	13375.4	13035.1	14173.6
70°	7950.7	7875.7	9397.3	11963.6	14604.9	16225.6	16217.6	14562.1	14337.0	13198.5	12952.1
72°	6107.7	6024.7	7275.7	10273.3	14280.8	17010.5	17251.6	15408.6	14326.3	12520.8	10699.2
72.5°	5545.2	5472.8	6718.5	9670.5	13921.8	17214.1	17101.6	15440.7	14213.8	12202.0	9994.7
75°	2552.9	2469.9	3356.6	5920.2	10859.9	15253.2	15636.3	14449.6	12413.7	9713.4	5987.2
77.5°	760.8	736.7	1079.6	2389.5	6311.3	11237.7	11385.0	10902.8	8666.0	5320.1	2220.7
80°	423.3	425.9	557.2	894.7	2775.3	6496.1	7026.5	6734.6	4251.3	1757.3	739.4
82.5°	235.7	249.1	348.2	530.4	1275.1	2981.5	3209.2	3094.0	1537.6	825.1	404.5
85°	123.2	128.6	182.2	284.0	723.3	942.9	969.7	1039.4	798.3	562.6	217.0
87.5°	48.2	48.2	67.0	117.9	267.9	292.0	262.5	318.8	458.1	364.3	107.2
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°	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3	2558.3
2.5°	2598.5	2577.0	2574.3	2539.5	2550.2	2520.8	2523.4	2518.1	2520.8	2515.4	2502.0
5°	2585.1	2569.0	2523.4	2552.9	2526.1	2563.6	2593.1	2582.4	2590.4	2587.7	2590.4
7.5°	2603.8	2582.4	2577.0	2561.0	2585.1	2601.1	2625.2	2692.2	2686.9	2694.9	2711.0
10°	2660.1	2636.0	2619.9	2644.0	2630.6	2681.5	2708.3	2743.1	2804.7	2807.4	2775.3
12.5°	2769.9	2753.8	2721.7	2727.0	2772.6	2788.7	2804.7	2826.2	2866.3	2858.3	2887.8
15°	2895.8	2861.0	2842.2	2836.9	2847.6	2866.3	2863.7	2885.1	2906.5	2925.3	2917.2
17.5°	2986.9	2941.3	2946.7	2973.5	2970.8	2965.5	2930.6	2919.9	2930.6	2941.3	2936.0
20°	3080.6	3086.0	3045.8	3021.7	3011.0	2957.4	2930.6	2898.5	2866.3	2882.4	2906.5
22.5°	3198.5	3174.4	3115.5	3043.1	2989.6	2957.4	2874.4	2818.1	2818.1	2834.2	2826.2
25°	3332.5	3281.6	3179.8	3048.5	2981.5	2844.9	2786.0	2777.9	2756.5	2780.6	2791.3
27.5°	3436.9	3391.4	3252.1	3029.7	2844.9	2735.1	2700.3	2689.5	2724.4	2727.0	2769.9
30°	3479.8	3466.4	3262.8	2981.5	2705.6	2528.8	2507.4	2555.6	2593.1	2649.4	2652.0
32.5°	3536.0	3541.4	3278.9	2869.0	2523.4	2346.6	2314.5	2373.4	2480.6	2526.1	2561.0
35°	3629.8	3656.6	3265.5	2729.7	2330.6	2161.8	2156.5	2172.5	2277.0	2357.4	2402.9
37.5°	3793.2	3787.9	3262.8	2563.6	2177.9	2001.1	1958.2	1963.6	2033.2	2100.2	2092.2
40°	4012.9	3991.4	3254.8	2346.6	1979.6	1864.5	1792.1	1765.3	1760.0	1741.2	1746.6
42.5°	4312.9	4270.0	3252.1	2127.0	1800.2	1676.9	1626.0	1556.4	1505.5	1409.1	1414.4
45°	4730.8	4655.8	3182.4	1920.7	1623.4	1521.6	1443.9	1393.0	1283.2	1162.6	1162.6
47.5°	5376.4	5132.6	3185.1	1693.0	1451.9	1368.9	1315.3	1226.9	1109.0	1012.6	1001.9
50°	6327.4	5770.2	3094.0	1513.5	1312.6	1256.4	1200.1	1098.3	985.8	918.8	926.9
52.5°	7554.3	6721.2	3091.4	1352.8	1202.8	1162.6	1101.0	1009.9	926.9	884.0	867.9
55°	9016.9	7980.2	3187.8	1221.5	1090.3	1068.8	1042.1	967.1	886.7	849.2	846.5
57.5°	10514.4	9209.8	3343.2	1127.8	993.8	1009.9	991.2	932.2	867.9	825.1	819.7
60°	11845.7	10184.9	3029.7	1015.3	908.1	942.9	969.7	918.8	884.0	881.3	862.6
62.5°	12850.3	10602.8	2303.8	929.6	862.6	926.9	999.2	1031.3	1015.3	1036.7	1039.4
65°	13217.3	10351.0	1585.9	884.0	827.8	964.4	1125.1	1114.4	1020.6	980.4	1001.9
67.5°	12703.0	9330.3	1176.0	830.4	803.6	1042.1	1197.4	1063.5	921.5	916.2	900.1
70°	10924.2	7907.9	959.0	774.2	763.5	999.2	1165.3	985.8	867.9	833.1	817.0
72°	8703.5	6158.6	841.1	734.0	699.2	892.0	1090.3	924.2	822.4	779.5	760.8
72.5°	7945.4	5708.6	825.1	715.2	685.8	867.9	1052.8	905.4	811.7	774.2	744.7
75°	4358.4	2922.6	726.0	656.3	578.6	750.1	975.1	849.2	766.1	712.6	707.2
77.5°	1620.7	1133.1	626.8	581.3	500.9	648.3	886.7	806.3	696.5	629.5	616.1
80°	621.5	597.4	511.7	490.2	420.6	567.9	817.0	723.3	592.0	525.0	503.6
82.5°	377.7	348.2	388.4	383.1	321.5	517.0	768.8	677.7	525.0	425.9	412.5
85°	206.3	206.3	270.6	259.8	225.0	412.5	581.3	450.0	332.2	273.2	278.6
87.5°	91.1	107.2	144.7	136.6	123.2	233.1	284.0	238.4	166.1	112.5	120.5
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)