

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: P478568

Luminaire Tested: **IFLD-M-SA4C-740-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478568
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-740-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

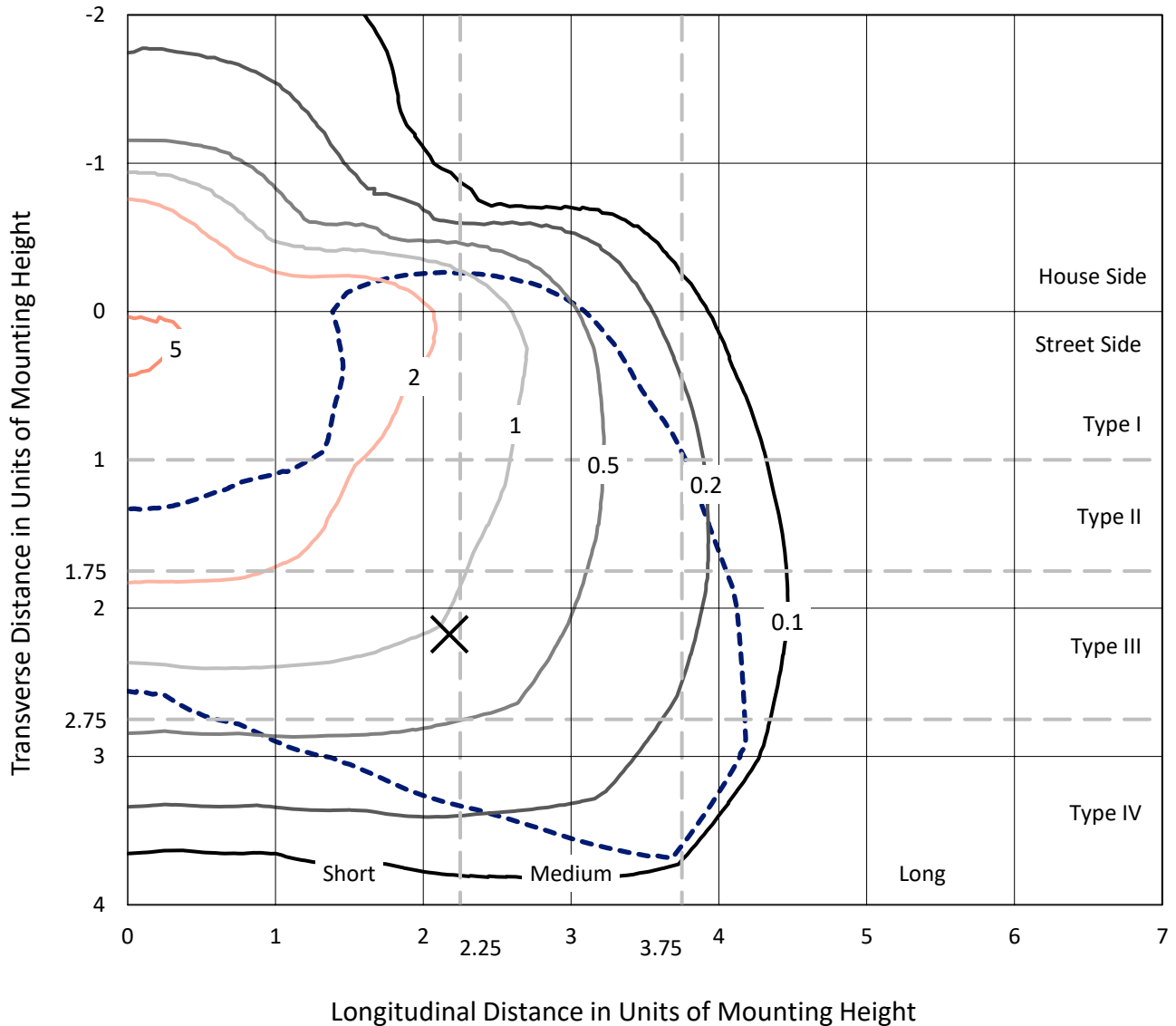
Lumens per Lamp: N/A
Luminaire Lumens: 28738.2 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

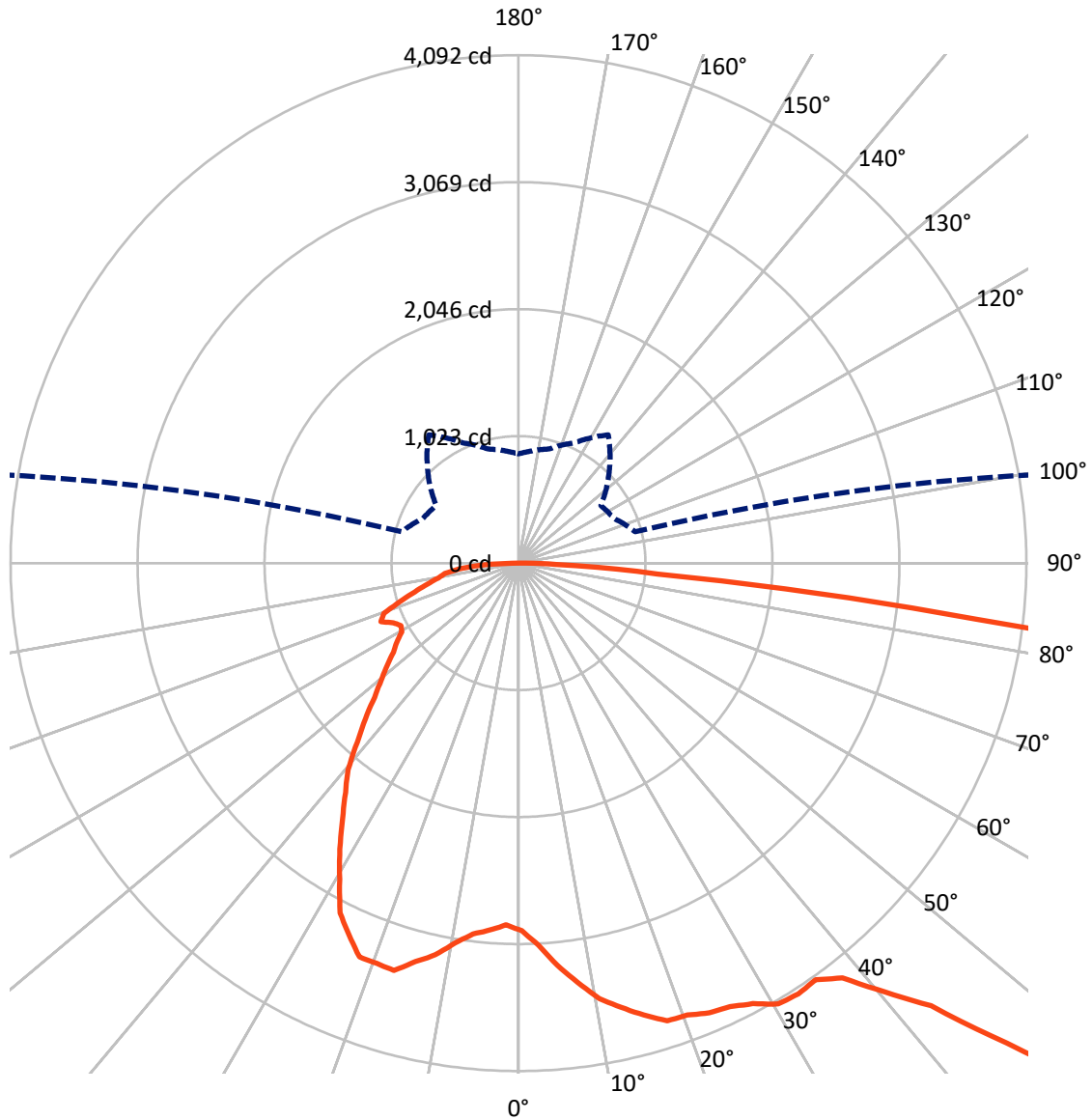
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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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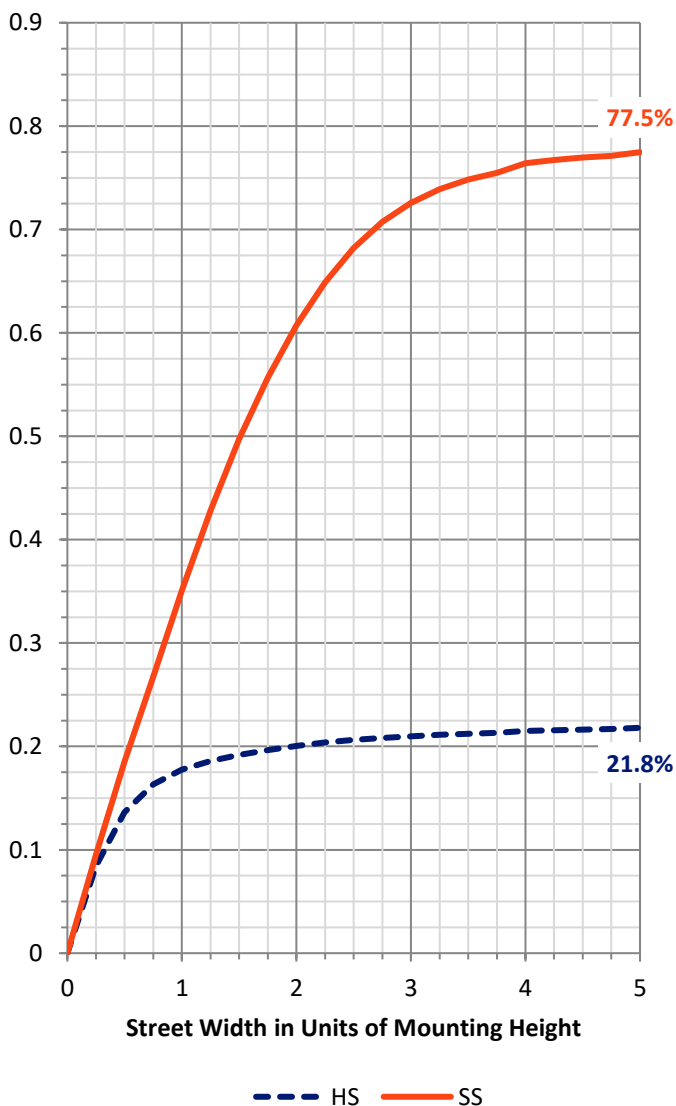
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6397.3	0.0	6397.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22340.9	0.0	22340.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	28738.2	0.0	28738.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.8	1.1
10°-20°	1007.6	3.5
20°-30°	1701.5	5.9
30°-40°	2354.6	8.2
40°-50°	3368.0	11.7
50°-60°	5432.3	18.9
60°-70°	8011.8	27.9
70°-80°	5817.9	20.2
80°-90°	741.6	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°	28738.2	100.0
0°-180°	28738.2	100.0

Coefficient of Utilization



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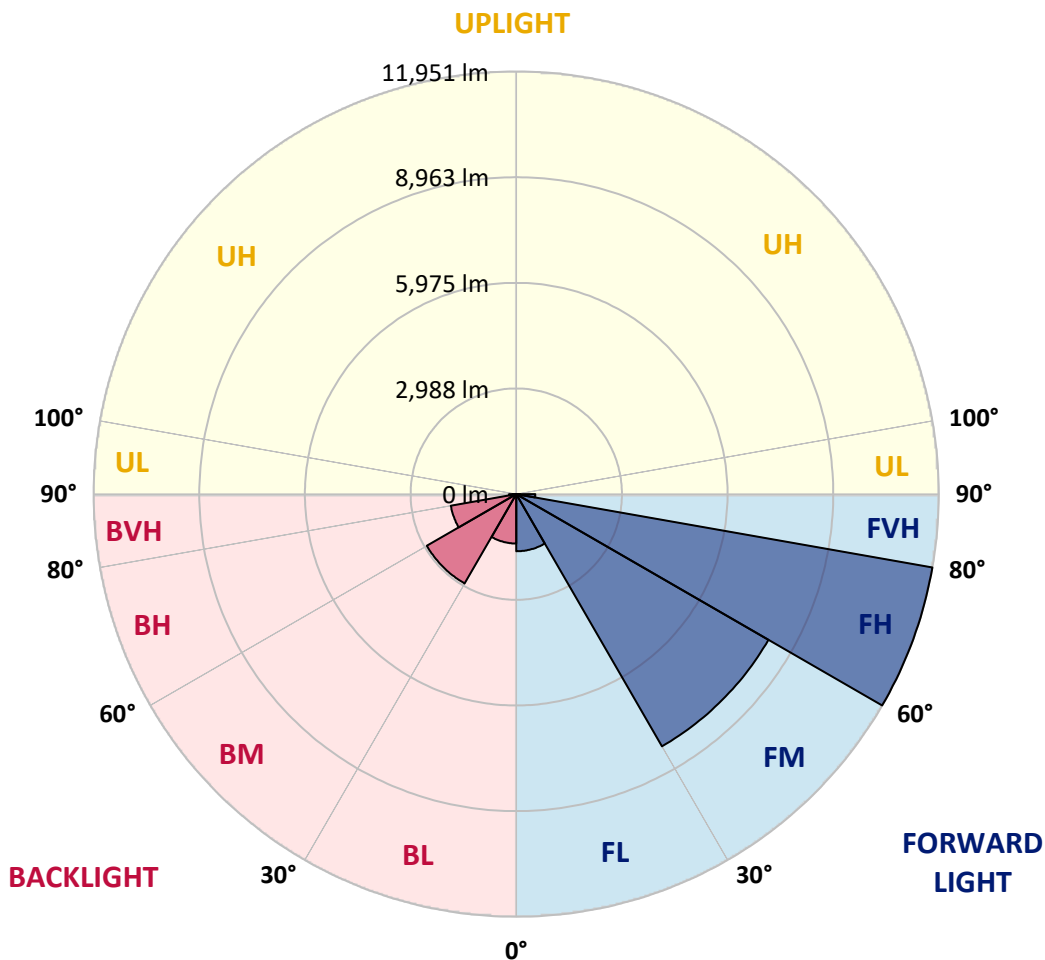
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1615.1	5.6			
FM (30°-60°)	8235.4	28.7			
FH (60°-80°)	11950.6	41.6			G4/12000
FVH (80°-90°)	539.8	1.9			G4/750
BL (0°-30°)	1396.8	4.9	B3/2500		
BM (30°-60°)	2919.5	10.2	B3/5000		
BH (60°-80°)	1879.1	6.5	B3/2500		G3/2500
BVH (80°-90°)	201.8	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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	3117.6	3136.2	3117.6	3114.5	3083.5	3061.8	3080.4	3052.5	3021.5	3009.1	2981.2
5°	3402.7	3405.8	3371.7	3374.8	3309.7	3241.5	3253.9	3170.2	3080.4	3046.3	2990.5
7.5°	3694.0	3659.9	3610.3	3594.8	3492.5	3418.2	3408.9	3334.5	3195.0	3117.6	3040.1
10°	3883.0	3895.4	3814.8	3746.6	3659.9	3570.0	3566.9	3427.5	3346.9	3232.2	3133.1
12.5°	4050.3	4053.4	3985.3	3876.8	3768.3	3656.8	3672.3	3610.3	3473.9	3365.5	3266.3
15°	4180.5	4161.9	4087.5	3988.4	3873.7	3786.9	3777.6	3725.0	3610.3	3520.4	3356.2
17.5°	4217.7	4208.4	4134.0	4028.7	3917.1	3852.0	3876.8	3790.0	3743.5	3663.0	3504.9
20°	4146.4	4124.7	4112.3	3994.6	3914.0	3907.8	3886.1	3904.7	3827.2	3752.8	3638.2
22.5°	4016.3	4007.0	4000.8	3907.8	3870.6	3898.5	3935.7	3963.6	3951.2	3879.9	3749.7
25°	3883.0	3926.4	3886.1	3842.7	3895.4	3966.7	3957.4	4047.2	4047.2	4025.6	3917.1
27.5°	3976.0	3948.1	3917.1	3895.4	3914.0	4025.6	4019.4	4127.8	4168.1	4127.8	4003.9
30°	4208.4	4180.5	4090.6	3994.6	3969.8	4090.6	4121.6	4217.7	4236.3	4137.1	4031.8
32.5°	4645.3	4629.9	4487.3	4205.3	4053.4	4121.6	4137.1	4245.6	4230.1	4168.1	4124.7
35°	5293.0	5240.3	5042.0	4564.8	4230.1	4161.9	4121.6	4208.4	4267.3	4236.3	4196.0
37.5°	6002.7	5943.8	5699.0	5094.7	4549.3	4270.4	4239.4	4310.7	4378.8	4363.3	4279.7
40°	6681.4	6681.4	6461.3	5757.9	5023.4	4533.8	4540.0	4459.4	4521.4	4493.5	4509.0
42.5°	7350.7	7326.0	7236.1	6535.7	5531.7	4973.8	4874.7	4673.2	4784.8	4775.5	4797.2
45°	8029.4	8010.8	7986.0	7260.9	6259.9	5568.8	5516.2	5153.6	5255.8	5212.5	5305.4
47.5°	8571.7	8593.4	8593.4	8069.7	7037.7	6362.2	6284.7	5711.4	5906.6	5928.3	5950.0
50°	9033.5	9042.8	9033.5	8841.3	7905.5	7270.2	7112.1	6529.5	6724.8	6895.2	7093.5
52.5°	9671.9	9684.3	9640.9	9566.5	9083.1	8224.7	8048.0	7400.3	7800.1	7979.8	8336.2
55°	10459.0	10366.0	10285.5	10341.2	10214.2	9275.2	9092.4	8299.0	8900.2	9138.8	9851.6
57.5°	10604.7	10685.2	10889.8	11332.9	11515.8	10297.9	10192.5	9402.3	10142.9	10350.5	11540.5
60°	11119.1	10985.8	11487.9	12448.5	12653.1	11630.4	11522.0	10610.9	11379.4	11596.3	13099.3
62.5°	11456.9	11450.7	12194.4	13334.8	13799.7	13012.6	12792.5	12182.0	12715.1	12925.8	14797.6
65°	11357.7	11447.6	12767.7	13855.5	14757.3	14583.7	14456.7	13533.2	14236.6	14218.0	15903.9
67.5°	10452.8	10706.9	12405.2	14230.4	16182.8	16498.9	16458.6	15432.8	15473.1	15079.6	16396.6
70°	9197.7	9111.0	10871.2	13840.0	16895.6	18770.4	18761.1	16846.0	16585.7	15268.6	14983.5
72°	7065.6	6969.6	8416.8	11884.5	16520.6	19678.4	19957.3	17825.2	16573.3	14484.6	12377.3
72.5°	6414.9	6331.2	7772.2	11187.3	16105.3	19913.9	19783.8	17862.4	16443.1	14115.8	11562.2
75°	2953.3	2857.2	3883.0	6848.7	12563.2	17645.5	18088.7	16715.8	14360.6	11236.8	6926.2
77.5°	880.1	852.2	1248.9	2764.3	7301.2	13000.2	13170.6	12612.8	10025.2	6154.5	2569.0
80°	489.6	492.7	644.6	1035.1	3210.5	7515.0	8128.6	7790.8	4918.1	2032.9	855.3
82.5°	272.7	288.2	402.9	613.6	1475.1	3449.1	3712.6	3579.3	1778.8	954.5	467.9
85°	142.6	148.8	210.7	328.5	836.7	1090.8	1121.8	1202.4	923.5	650.8	251.0
87.5°	55.8	55.8	77.5	136.4	309.9	337.8	303.7	368.8	529.9	421.5	124.0
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°	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5	2959.5
2.5°	3006.0	2981.2	2978.1	2937.8	2950.2	2916.1	2919.2	2913.0	2916.1	2909.9	2894.4
5°	2990.5	2971.9	2919.2	2953.3	2922.3	2965.7	2999.8	2987.4	2996.7	2993.6	2996.7
7.5°	3012.2	2987.4	2981.2	2962.6	2990.5	3009.1	3037.0	3114.5	3108.3	3117.6	3136.2
10°	3077.3	3049.4	3030.8	3058.7	3043.2	3102.1	3133.1	3173.3	3244.6	3247.7	3210.5
12.5°	3204.3	3185.7	3148.5	3154.7	3207.4	3226.0	3244.6	3269.4	3315.9	3306.6	3340.7
15°	3350.0	3309.7	3288.0	3281.8	3294.2	3315.9	3312.8	3337.6	3362.4	3384.1	3374.8
17.5°	3455.3	3402.7	3408.9	3439.9	3436.8	3430.6	3390.3	3377.9	3390.3	3402.7	3396.5
20°	3563.8	3570.0	3523.5	3495.6	3483.2	3421.3	3390.3	3353.1	3315.9	3334.5	3362.4
22.5°	3700.2	3672.3	3604.1	3520.4	3458.4	3421.3	3325.2	3260.1	3260.1	3278.7	3269.4
25°	3855.1	3796.2	3678.5	3526.6	3449.1	3291.1	3222.9	3213.6	3188.8	3216.7	3229.1
27.5°	3976.0	3923.3	3762.1	3504.9	3291.1	3164.0	3123.8	3111.4	3151.6	3154.7	3204.3
30°	4025.6	4010.1	3774.5	3449.1	3130.0	2925.4	2900.6	2956.4	2999.8	3064.9	3068.0
32.5°	4090.6	4096.8	3793.1	3319.0	2919.2	2714.7	2677.5	2745.7	2869.6	2922.3	2962.6
35°	4199.1	4230.1	3777.6	3157.8	2696.1	2500.9	2494.7	2513.3	2634.1	2727.1	2779.8
37.5°	4388.1	4381.9	3774.5	2965.7	2519.5	2314.9	2265.3	2271.5	2352.1	2429.6	2420.3
40°	4642.2	4617.5	3765.2	2714.7	2290.1	2156.9	2073.2	2042.2	2036.0	2014.3	2020.5
42.5°	4989.3	4939.7	3762.1	2460.6	2082.5	1940.0	1881.1	1800.5	1741.6	1630.1	1636.3
45°	5472.8	5386.0	3681.6	2222.0	1878.0	1760.2	1670.3	1611.5	1484.4	1345.0	1345.0
47.5°	6219.6	5937.6	3684.7	1958.5	1679.6	1583.6	1521.6	1419.3	1283.0	1171.4	1159.0
50°	7319.8	6675.2	3579.3	1750.9	1518.5	1453.4	1388.3	1270.6	1140.4	1062.9	1072.2
52.5°	8739.1	7775.3	3576.2	1565.0	1391.4	1345.0	1273.7	1168.3	1072.2	1022.7	1004.1
55°	10431.1	9231.8	3687.8	1413.1	1261.3	1236.5	1205.5	1118.7	1025.8	982.4	979.3
57.5°	12163.4	10654.2	3867.5	1304.7	1149.7	1168.3	1146.6	1078.4	1004.1	954.5	948.3
60°	13703.6	11782.3	3504.9	1174.5	1050.5	1090.8	1121.8	1062.9	1022.7	1019.6	997.9
62.5°	14865.7	12265.7	2665.1	1075.3	997.9	1072.2	1155.9	1193.1	1174.5	1199.3	1202.4
65°	15290.3	11974.4	1834.6	1022.7	957.6	1115.6	1301.6	1289.2	1180.7	1134.2	1159.0
67.5°	14695.3	10793.7	1360.4	960.7	929.7	1205.5	1385.2	1230.3	1066.0	1059.8	1041.3
70°	12637.6	9148.1	1109.4	895.6	883.2	1155.9	1348.0	1140.4	1004.1	963.8	945.2
72°	10068.5	7124.5	973.1	849.1	808.8	1032.0	1261.3	1069.1	951.4	901.8	880.1
72.5°	9191.5	6603.9	954.5	827.4	793.3	1004.1	1217.9	1047.5	939.0	895.6	861.5
75°	5042.0	3381.0	839.8	759.2	669.4	867.7	1128.0	982.4	886.3	824.3	818.1
77.5°	1874.9	1310.9	725.2	672.5	579.5	749.9	1025.8	932.8	805.7	728.3	712.8
80°	719.0	691.1	591.9	567.1	486.5	657.0	945.2	836.7	684.9	607.4	582.6
82.5°	437.0	402.9	449.3	443.2	371.9	598.1	889.4	784.0	607.4	492.7	477.2
85°	238.6	238.6	313.0	300.6	260.3	477.2	672.5	520.6	384.3	316.1	322.3
87.5°	105.4	124.0	167.3	158.0	142.6	269.6	328.5	275.8	192.1	130.2	139.5
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)