

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: P478608

Luminaire Tested: **IFLD-M-SA4D-750-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478608
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

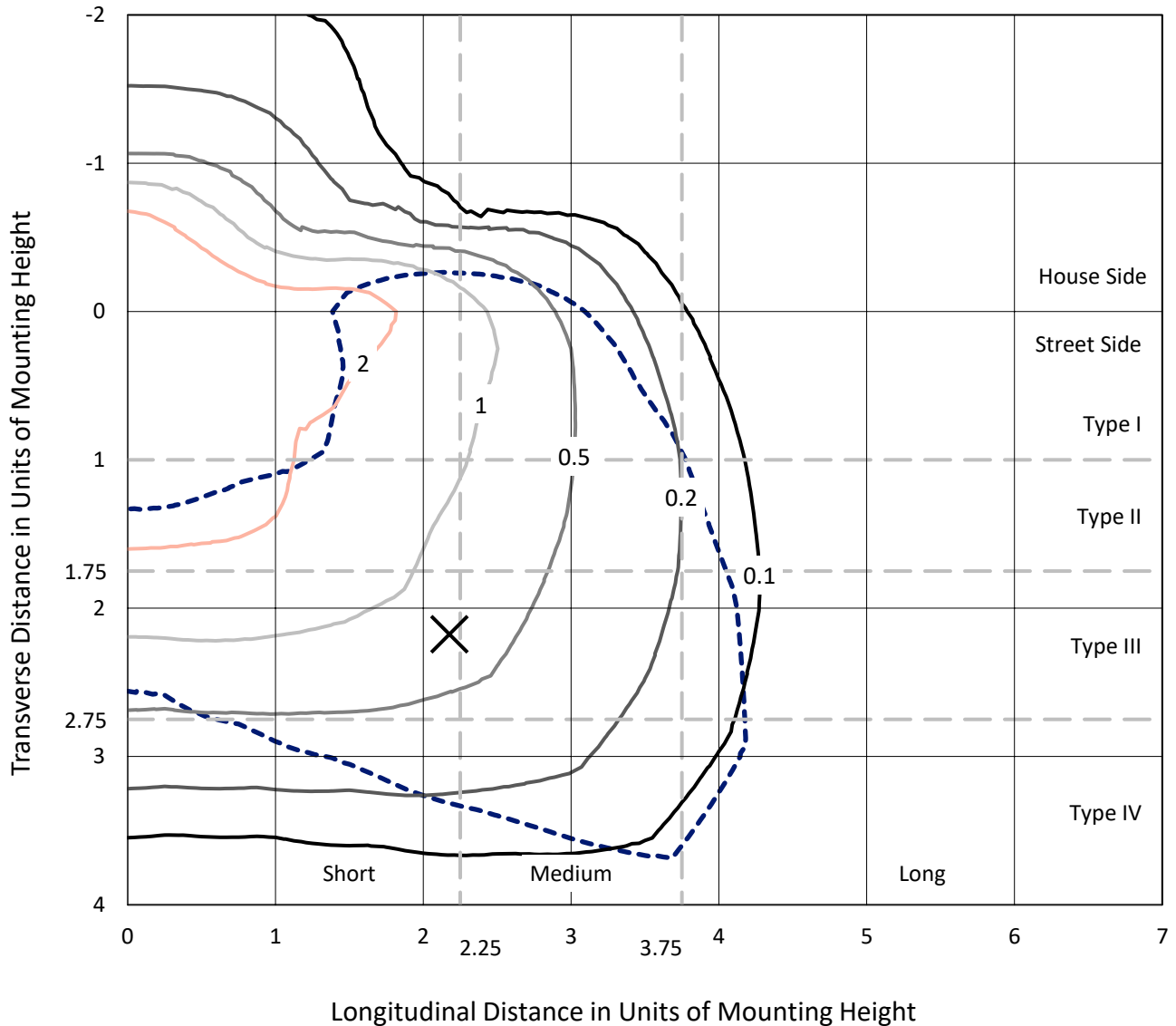
Lumens per Lamp: N/A
Luminaire Lumens: 32345.3 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.7
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

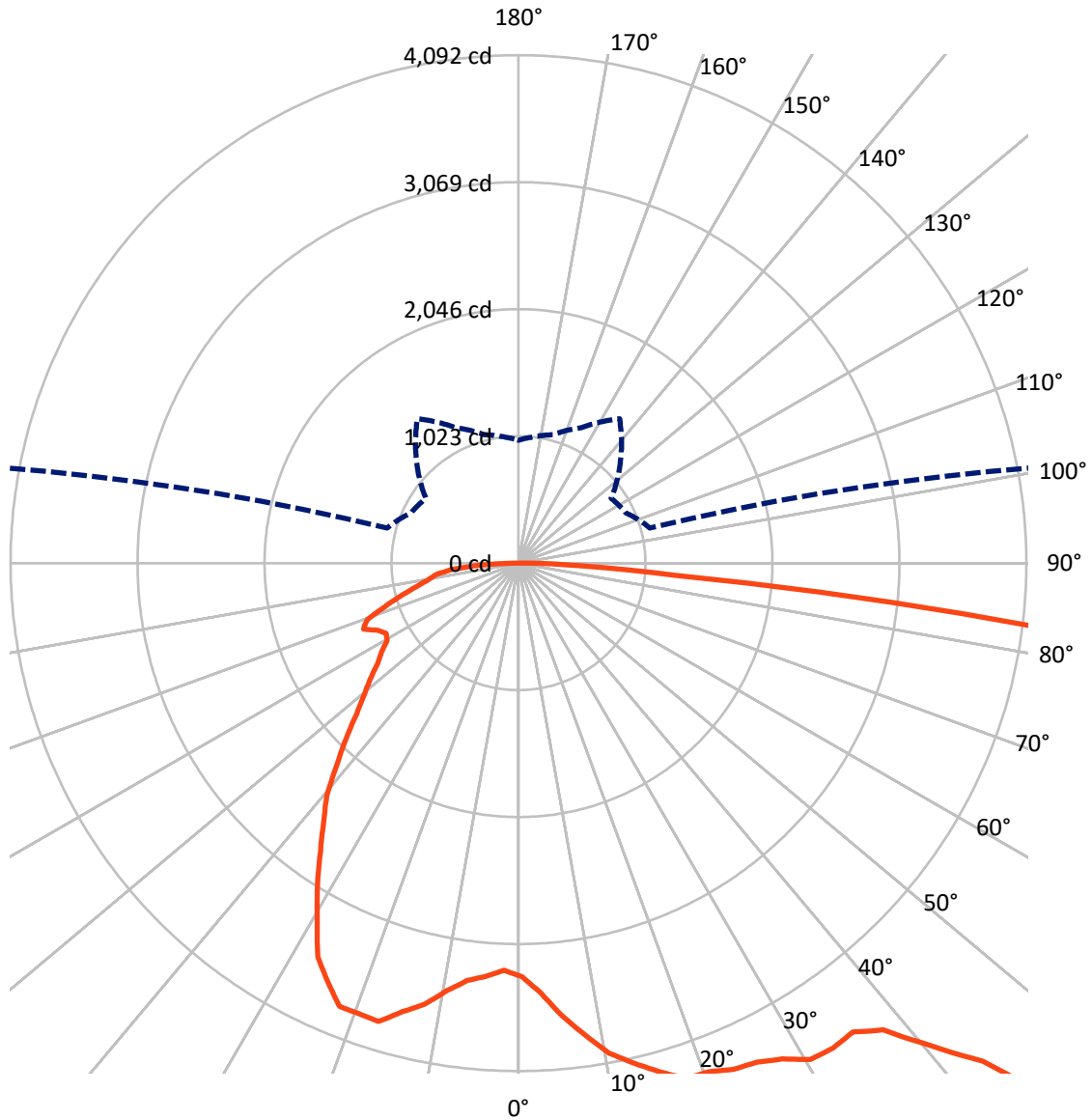
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.7 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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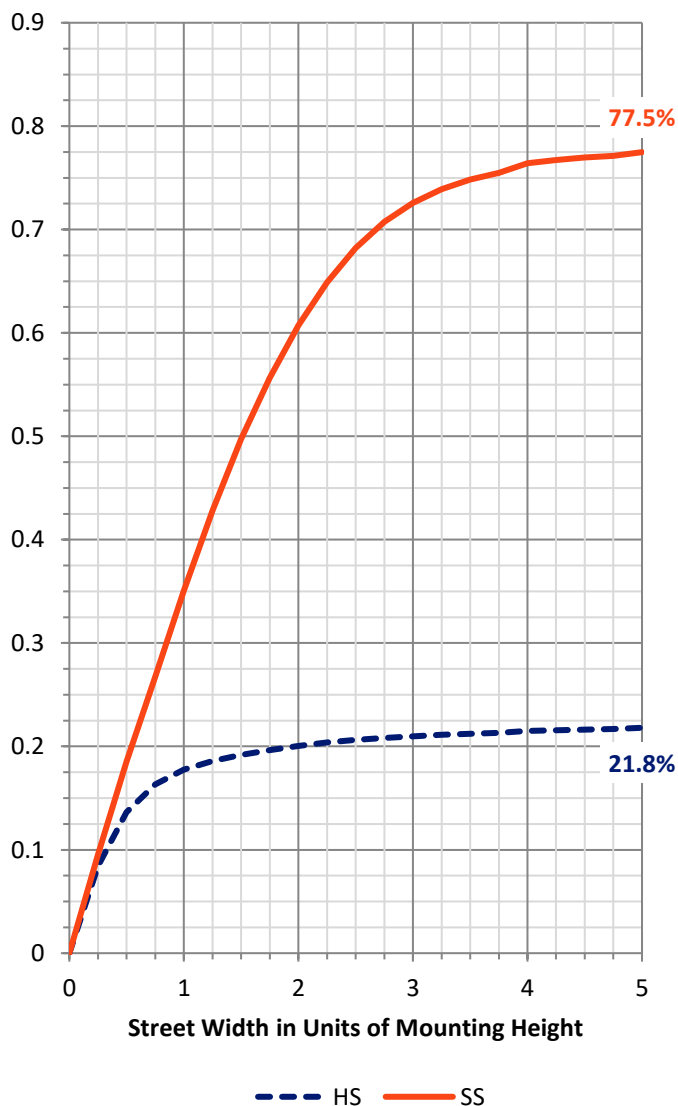
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7200.3	0.0	7200.3
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	25145.0	0.0	25145.0
	% Fixture	77.7	0.0	77.7
Total	Lumens	32345.3	0.0	32345.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.9	1.1
10°-20°	1134.0	3.5
20°-30°	1915.1	5.9
30°-40°	2650.1	8.2
40°-50°	3790.8	11.7
50°-60°	6114.1	18.9
60°-70°	9017.4	27.9
70°-80°	6548.2	20.2
80°-90°	834.7	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°	32345.3	100.0
0°-180°	32345.3	100.0

Coefficient of Utilization



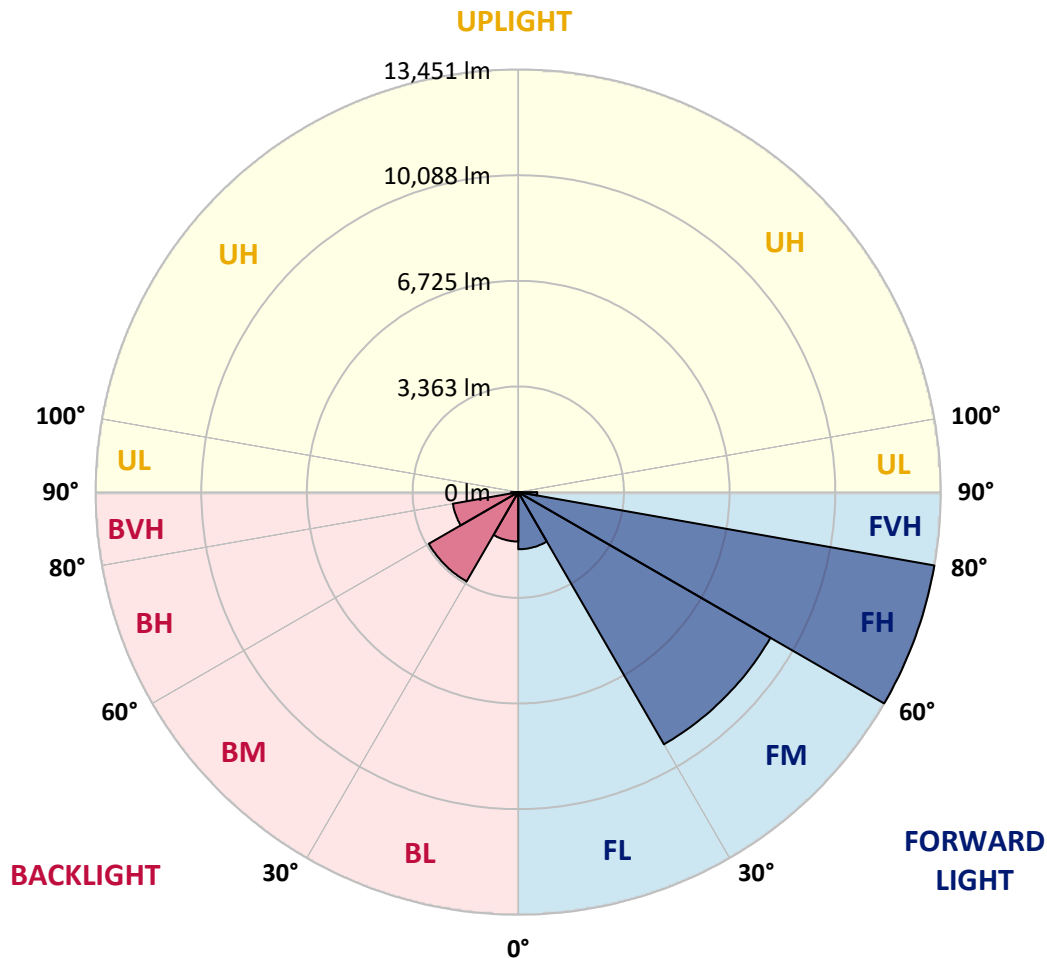
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1817.8	5.6			
FM (30°-60°)	9269.0	28.7			
FH (60°-80°)	13450.6	41.6			G5
FVH (80°-90°)	607.6	1.9			G4/750
BL (0°-30°)	1572.1	4.9	B3/2500		
BM (30°-60°)	3286.0	10.2	B3/5000		
BH (60°-80°)	2115.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	227.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0
2.5°	3508.9	3529.8	3508.9	3505.4	3470.5	3446.1	3467.0	3435.6	3400.7	3386.8	3355.4
5°	3829.8	3833.2	3794.9	3798.4	3725.1	3648.4	3662.3	3568.2	3467.0	3428.6	3365.9
7.5°	4157.6	4119.3	4063.4	4046.0	3930.9	3847.2	3836.7	3753.0	3596.1	3508.9	3421.7
10°	4370.4	4384.3	4293.6	4216.9	4119.3	4018.1	4014.6	3857.7	3767.0	3637.9	3526.3
12.5°	4558.7	4562.2	4485.5	4363.4	4241.3	4115.8	4133.2	4063.4	3910.0	3787.9	3676.3
15°	4705.2	4684.3	4600.6	4489.0	4359.9	4262.3	4251.8	4192.5	4063.4	3962.3	3777.4
17.5°	4747.1	4736.6	4652.9	4534.3	4408.8	4335.5	4363.4	4265.7	4213.4	4122.7	3944.9
20°	4666.9	4642.4	4628.5	4495.9	4405.3	4398.3	4373.9	4394.8	4307.6	4223.9	4094.8
22.5°	4520.4	4509.9	4502.9	4398.3	4356.4	4387.8	4429.7	4461.1	4447.1	4366.9	4220.4
25°	4370.4	4419.2	4373.9	4325.0	4384.3	4464.6	4454.1	4555.2	4555.2	4530.8	4408.8
27.5°	4475.0	4443.6	4408.8	4384.3	4405.3	4530.8	4523.9	4645.9	4691.3	4645.9	4506.4
30°	4736.6	4705.2	4604.1	4495.9	4468.0	4604.1	4639.0	4747.1	4768.0	4656.4	4537.8
32.5°	5228.4	5211.0	5050.5	4733.1	4562.2	4639.0	4656.4	4778.5	4761.0	4691.3	4642.4
35°	5957.4	5898.1	5674.9	5137.7	4761.0	4684.3	4639.0	4736.6	4802.9	4768.0	4722.7
37.5°	6756.1	6689.9	6414.3	5734.2	5120.3	4806.4	4771.5	4851.7	4928.5	4911.0	4816.8
40°	7520.0	7520.0	7272.3	6480.6	5653.9	5102.9	5109.8	5019.1	5088.9	5057.5	5074.9
42.5°	8273.4	8245.5	8144.3	7356.1	6226.0	5598.1	5486.5	5259.8	5385.4	5374.9	5399.3
45°	9037.2	9016.3	8988.4	8172.2	7045.6	6267.8	6208.5	5800.4	5915.5	5866.7	5971.3
47.5°	9647.6	9672.0	9672.0	9082.6	7921.1	7160.7	7073.5	6428.3	6648.0	6672.4	6696.8
50°	10167.3	10177.8	10167.3	9951.1	8897.7	8182.7	8004.8	7349.1	7568.8	7760.7	7983.9
52.5°	10885.8	10899.8	10851.0	10767.3	10223.1	9257.0	9058.2	8329.2	8779.1	8981.4	9382.5
55°	11771.8	11667.1	11576.5	11639.2	11496.2	10439.4	10233.6	9340.7	10017.4	10285.9	11088.1
57.5°	11935.7	12026.4	12256.6	12755.4	12961.2	11590.4	11471.8	10582.4	11416.0	11649.7	12989.1
60°	12514.7	12364.7	12929.8	14011.0	14241.2	13090.2	12968.1	11942.7	12807.7	13051.9	14743.5
62.5°	12894.9	12887.9	13725.0	15008.6	15531.8	14645.8	14398.2	13711.1	14311.0	14548.2	16654.9
65°	12783.3	12884.4	14370.3	15594.6	16609.6	16414.2	16271.2	15231.8	16023.6	16002.7	17900.1
67.5°	11764.8	12050.8	13962.2	16016.6	18214.0	18569.8	18524.4	17369.9	17415.3	16972.3	18454.7
70°	10352.2	10254.5	12235.7	15577.1	19016.2	21126.4	21116.0	18960.4	18667.4	17185.1	16864.2
72°	7952.5	7844.4	9473.2	13376.2	18594.2	22148.4	22462.3	20062.6	18653.5	16302.6	13930.8
72.5°	7220.0	7125.9	8747.7	12591.4	18126.8	22413.5	22267.0	20104.5	18507.0	15887.5	13013.5
75°	3324.0	3215.9	4370.4	7708.3	14140.1	19860.3	20359.1	18813.9	16163.1	12647.3	7795.5
77.5°	990.6	959.2	1405.6	3111.2	8217.6	14631.9	14823.7	14195.9	11283.5	6927.0	2891.5
80°	551.1	554.6	725.5	1165.0	3613.5	8458.2	9148.9	8768.7	5535.4	2288.1	962.7
82.5°	306.9	324.4	453.4	690.6	1660.3	3882.1	4178.5	4028.6	2002.1	1074.3	526.7
85°	160.4	167.4	237.2	369.7	941.7	1227.8	1262.6	1353.3	1039.4	732.5	282.5
87.5°	62.8	62.8	87.2	153.5	348.8	380.2	341.8	415.1	596.4	474.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0	3331.0
2.5°	3383.3	3355.4	3351.9	3306.6	3320.5	3282.1	3285.6	3278.7	3282.1	3275.2	3257.7
5°	3365.9	3344.9	3285.6	3324.0	3289.1	3338.0	3376.3	3362.4	3372.8	3369.3	3372.8
7.5°	3390.3	3362.4	3355.4	3334.5	3365.9	3386.8	3418.2	3505.4	3498.4	3508.9	3529.8
10°	3463.5	3432.1	3411.2	3442.6	3425.2	3491.4	3526.3	3571.6	3651.9	3655.4	3613.5
12.5°	3606.5	3585.6	3543.7	3550.7	3610.0	3630.9	3651.9	3679.8	3732.1	3721.6	3760.0
15°	3770.5	3725.1	3700.7	3693.7	3707.7	3732.1	3728.6	3756.5	3784.4	3808.8	3798.4
17.5°	3889.0	3829.8	3836.7	3871.6	3868.1	3861.1	3815.8	3801.9	3815.8	3829.8	3822.8
20°	4011.1	4018.1	3965.8	3934.4	3920.4	3850.7	3815.8	3773.9	3732.1	3753.0	3784.4
22.5°	4164.6	4133.2	4056.5	3962.3	3892.5	3850.7	3742.6	3669.3	3669.3	3690.2	3679.8
25°	4339.0	4272.7	4140.2	3969.3	3882.1	3704.2	3627.5	3617.0	3589.1	3620.5	3634.4
27.5°	4475.0	4415.7	4234.4	3944.9	3704.2	3561.2	3515.8	3501.9	3547.2	3550.7	3606.5
30°	4530.8	4513.4	4248.3	3882.1	3522.8	3292.6	3264.7	3327.5	3376.3	3449.6	3453.1
32.5°	4604.1	4611.1	4269.2	3735.6	3285.6	3055.4	3013.6	3090.3	3229.8	3289.1	3334.5
35°	4726.2	4761.0	4251.8	3554.2	3034.5	2814.8	2807.8	2828.7	2964.7	3069.4	3128.7
37.5°	4938.9	4931.9	4248.3	3338.0	2835.7	2605.5	2549.7	2556.7	2647.3	2734.5	2724.1
40°	5224.9	5197.0	4237.8	3055.4	2577.6	2427.6	2333.4	2298.5	2291.6	2267.2	2274.1
42.5°	5615.6	5559.8	4234.4	2769.4	2343.9	2183.4	2117.2	2026.5	1960.2	1834.7	1841.6
45°	6159.7	6062.0	4143.7	2500.9	2113.7	1981.1	1880.0	1813.7	1670.7	1513.8	1513.8
47.5°	7000.3	6682.9	4147.2	2204.4	1890.5	1782.3	1712.6	1597.5	1444.0	1318.4	1304.5
50°	8238.5	7513.0	4028.6	1970.7	1709.1	1635.8	1562.6	1430.1	1283.6	1196.4	1206.8
52.5°	9836.0	8751.2	4025.1	1761.4	1566.1	1513.8	1433.5	1315.0	1206.8	1151.0	1130.1
55°	11740.4	10390.6	4150.6	1590.5	1419.6	1391.7	1356.8	1259.1	1154.5	1105.7	1102.2
57.5°	13690.1	11991.5	4352.9	1468.4	1294.0	1315.0	1290.5	1213.8	1130.1	1074.3	1067.3
60°	15423.7	13261.1	3944.9	1321.9	1182.4	1227.8	1262.6	1196.4	1151.0	1147.5	1123.1
62.5°	16731.6	13805.3	2999.6	1210.3	1123.1	1206.8	1301.0	1342.9	1321.9	1349.8	1353.3
65°	17209.5	13477.4	2064.9	1151.0	1077.8	1255.7	1464.9	1451.0	1328.9	1276.6	1304.5
67.5°	16539.8	12148.5	1531.2	1081.3	1046.4	1356.8	1559.1	1384.7	1199.8	1192.9	1171.9
70°	14223.8	10296.4	1248.7	1008.0	994.1	1301.0	1517.3	1283.6	1130.1	1084.7	1063.8
72°	11332.3	8018.8	1095.2	955.7	910.4	1161.5	1419.6	1203.3	1070.8	1015.0	990.6
72.5°	10345.2	7432.8	1074.3	931.3	892.9	1130.1	1370.8	1178.9	1056.8	1008.0	969.6
75°	5674.9	3805.3	945.2	854.5	753.4	976.6	1269.6	1105.7	997.5	927.8	920.8
77.5°	2110.2	1475.4	816.2	756.9	652.2	844.1	1154.5	1049.9	906.9	819.7	802.2
80°	809.2	777.8	666.2	638.3	547.6	739.4	1063.8	941.7	770.8	683.6	655.7
82.5°	491.8	453.4	505.8	498.8	418.6	673.2	1001.0	882.4	683.6	554.6	537.1
85°	268.6	268.6	352.3	338.3	293.0	537.1	756.9	586.0	432.5	355.8	362.7
87.5°	118.6	139.5	188.3	177.9	160.4	303.5	369.7	310.4	216.3	146.5	157.0
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)