

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: P478728

Luminaire Tested: **IFLD-L-SA7B-830-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478728
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

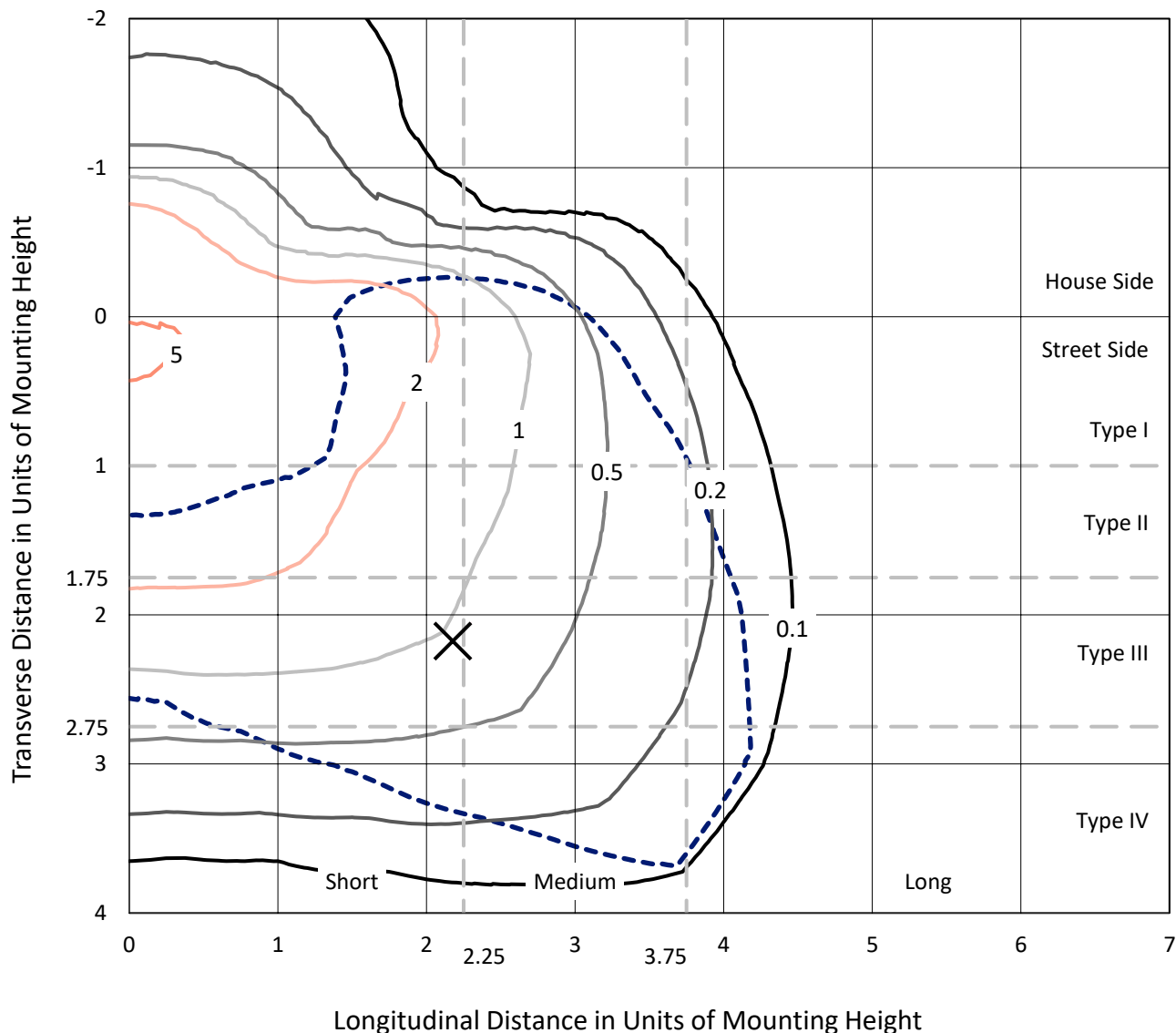
Lumens per Lamp: N/A
Luminaire Lumens: 28602.4 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
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

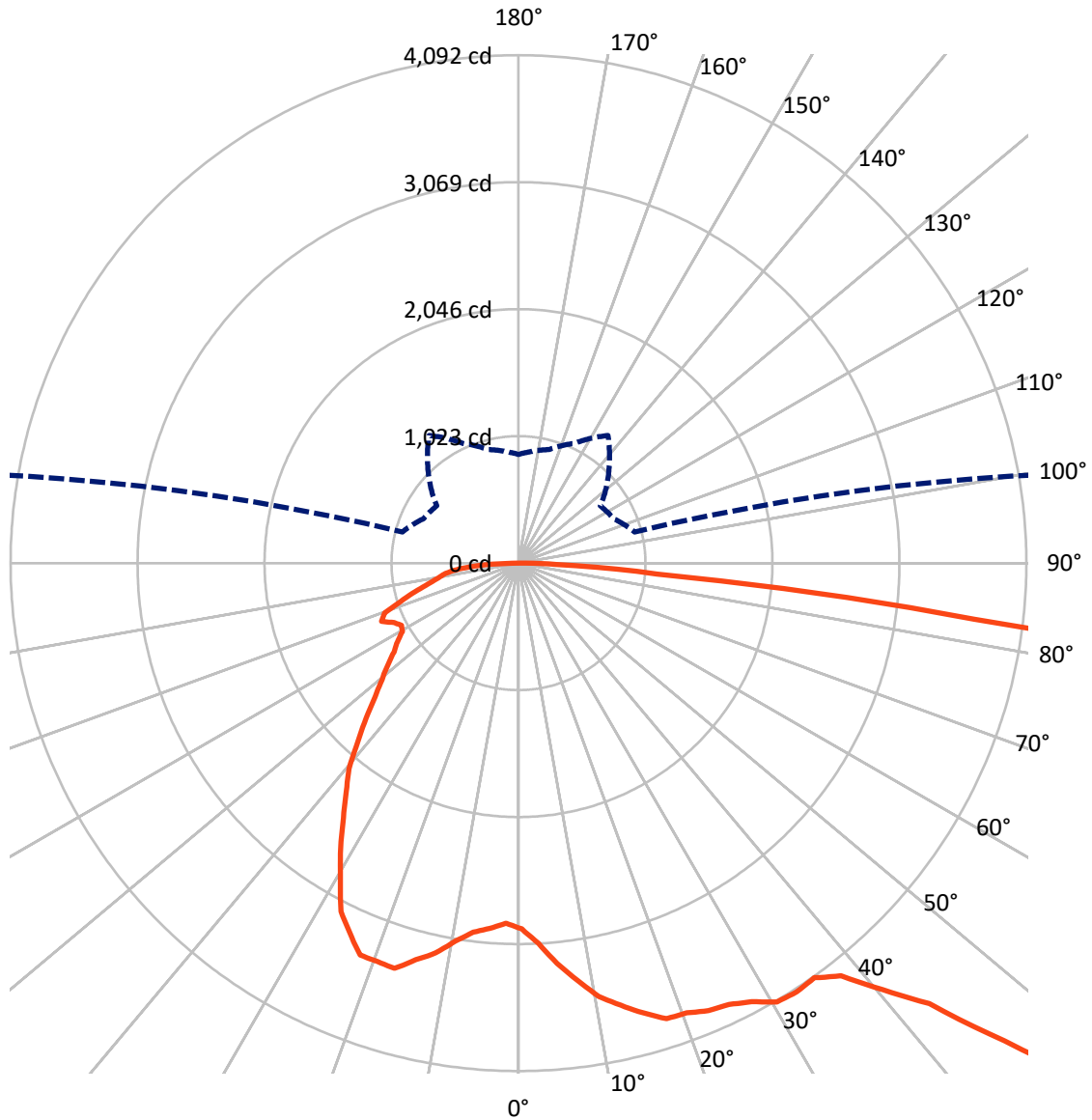
× Max cd
 - - - 1/2 Max cd



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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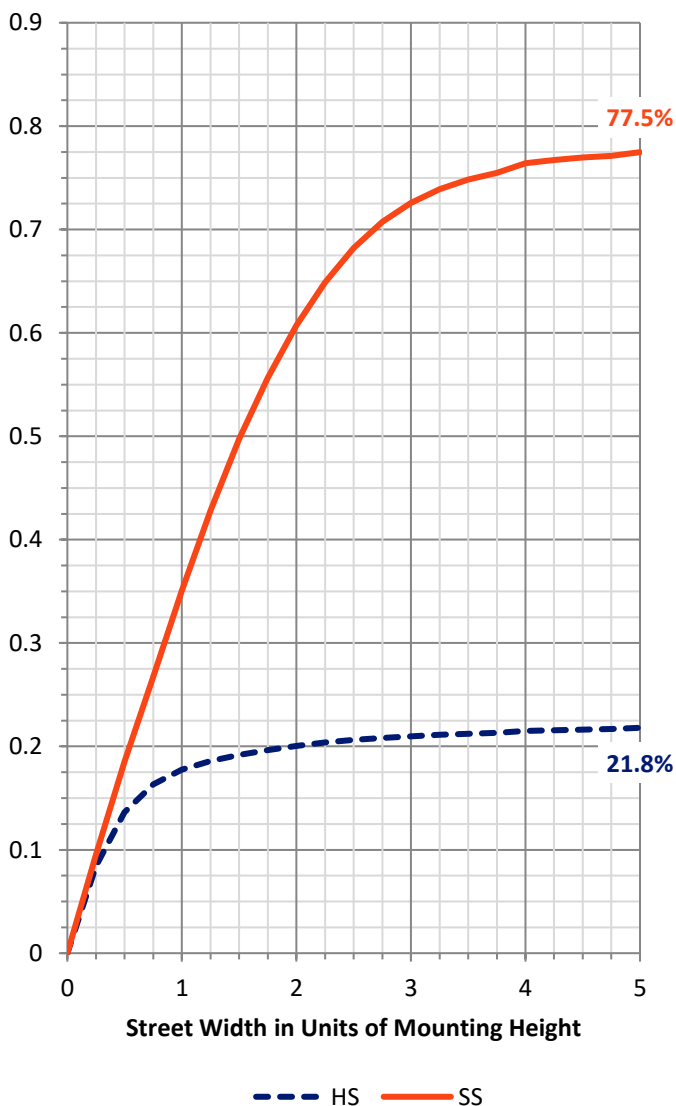
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6367.1	0.0	6367.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22235.3	0.0	22235.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	28602.4	0.0	28602.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.4	1.1
10°-20°	1002.8	3.5
20°-30°	1693.5	5.9
30°-40°	2343.5	8.2
40°-50°	3352.1	11.7
50°-60°	5406.6	18.9
60°-70°	7973.9	27.9
70°-80°	5790.5	20.2
80°-90°	738.1	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°	28602.4	100.0
0°-180°	28602.4	100.0



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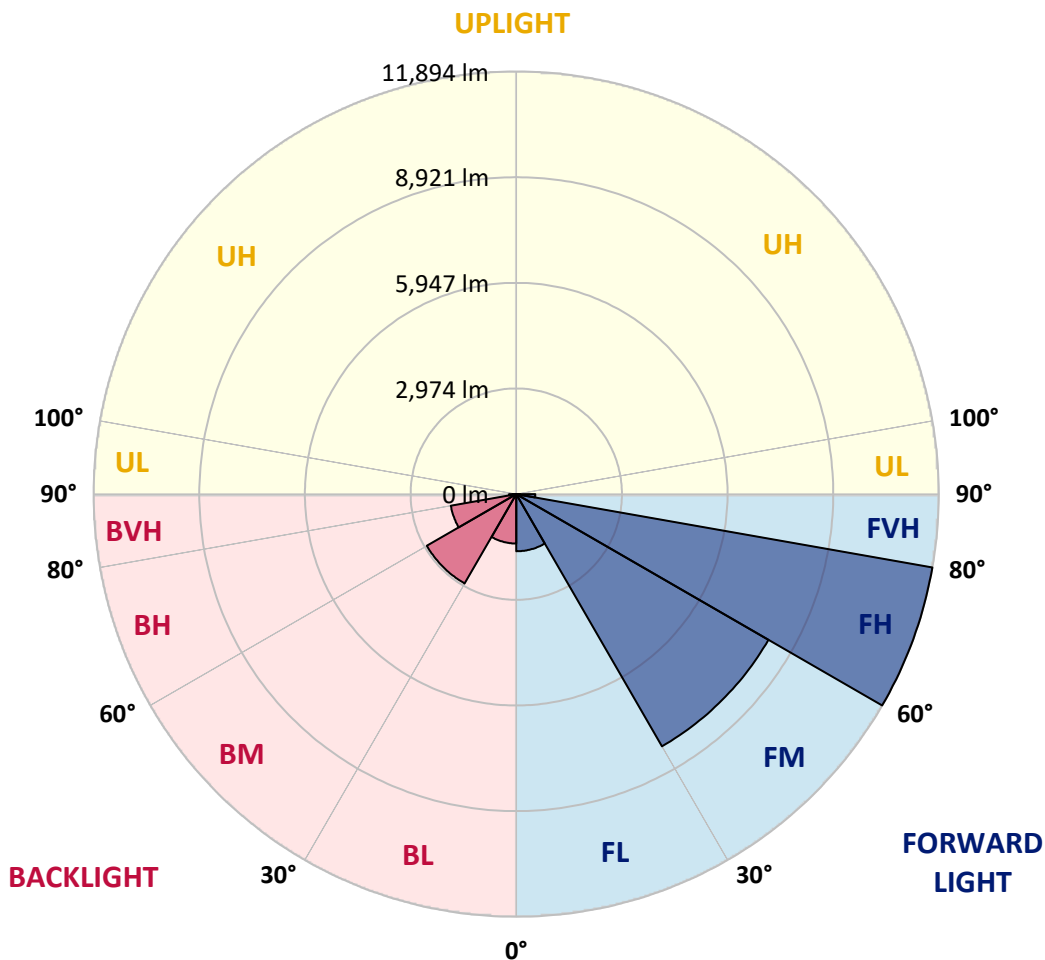
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1607.5	5.6			
FM (30°-60°)	8196.4	28.7			
FH (60°-80°)	11894.2	41.6			G4/12000
FVH (80°-90°)	537.3	1.9			G4/750
BL (0°-30°)	1390.2	4.9	B3/2500		
BM (30°-60°)	2905.7	10.2	B3/5000		
BH (60°-80°)	1870.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	200.9	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°	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5
2.5°	3102.8	3121.3	3102.8	3099.7	3068.9	3047.3	3065.8	3038.1	3007.2	2994.9	2967.1
5°	3386.6	3389.7	3355.7	3358.8	3294.1	3226.2	3238.5	3155.3	3065.8	3031.9	2976.4
7.5°	3676.5	3642.6	3593.2	3577.8	3476.0	3402.0	3392.8	3318.7	3179.9	3102.8	3025.7
10°	3864.7	3877.0	3796.8	3728.9	3642.6	3553.1	3550.1	3411.3	3331.1	3216.9	3118.3
12.5°	4031.2	4034.3	3966.4	3858.5	3750.5	3639.5	3654.9	3593.2	3457.5	3349.6	3250.9
15°	4160.8	4142.2	4068.2	3969.5	3855.4	3769.0	3759.8	3707.4	3593.2	3503.8	3340.3
17.5°	4197.8	4188.5	4114.5	4009.6	3898.6	3833.8	3858.5	3772.1	3725.9	3645.7	3488.4
20°	4126.8	4105.2	4092.9	3975.7	3895.5	3889.3	3867.7	3886.2	3809.1	3735.1	3621.0
22.5°	3997.3	3988.0	3981.9	3889.3	3852.3	3880.1	3917.1	3944.9	3932.5	3861.6	3732.0
25°	3864.7	3907.8	3867.7	3824.6	3877.0	3947.9	3938.7	4028.1	4028.1	4006.5	3898.6
27.5°	3957.2	3929.4	3898.6	3877.0	3895.5	4006.5	4000.4	4108.3	4148.4	4108.3	3984.9
30°	4188.5	4160.8	4071.3	3975.7	3951.0	4071.3	4102.2	4197.8	4216.3	4117.6	4012.7
32.5°	4623.4	4608.0	4466.1	4185.4	4034.3	4102.2	4117.6	4225.5	4210.1	4148.4	4105.2
35°	5268.0	5215.6	5018.2	4543.2	4210.1	4142.2	4102.2	4188.5	4247.1	4216.3	4176.2
37.5°	5974.3	5915.7	5672.1	5070.6	4527.8	4250.2	4219.4	4290.3	4358.1	4342.7	4259.5
40°	6649.8	6649.8	6430.8	5730.7	4999.7	4512.4	4518.5	4438.3	4500.0	4472.3	4487.7
42.5°	7316.0	7291.3	7201.9	6504.8	5505.5	4950.3	4851.6	4651.2	4762.2	4752.9	4774.5
45°	7991.5	7973.0	7948.3	7226.6	6230.3	5542.5	5490.1	5129.2	5231.0	5187.8	5280.4
47.5°	8531.2	8552.8	8552.8	8031.6	7004.5	6332.1	6255.0	5684.4	5878.7	5900.3	5921.9
50°	8990.8	9000.1	8990.8	8799.6	7868.1	7235.8	7078.5	6498.7	6693.0	6862.6	7060.0
52.5°	9626.2	9638.5	9595.3	9521.3	9040.2	8185.8	8010.0	7365.4	7763.2	7942.1	8296.8
55°	10409.6	10317.1	10236.9	10292.4	10165.9	9231.4	9049.4	8259.8	8858.2	9095.7	9805.1
57.5°	10554.6	10634.7	10838.3	11279.4	11461.3	10249.2	10144.3	9357.8	10095.0	10301.6	11486.0
60°	11066.6	10933.9	11433.6	12389.7	12593.3	11575.5	11467.5	10560.7	11325.6	11541.5	13037.4
62.5°	11402.7	11396.6	12136.8	13271.8	13734.5	12951.1	12732.1	12124.5	12655.0	12864.7	14727.6
65°	11304.0	11393.5	12707.4	13790.0	14687.5	14514.8	14388.4	13469.2	14169.4	14150.9	15828.7
67.5°	10403.4	10656.3	12346.5	14163.2	16106.3	16420.9	16380.8	15359.9	15400.0	15008.3	16319.2
70°	9154.3	9067.9	10819.8	13774.6	16815.7	18681.7	18672.5	16766.4	16507.3	15196.5	14912.7
72°	7032.3	6936.6	8377.0	11828.4	16442.5	19585.5	19863.0	17741.0	16495.0	14416.1	12318.8
72.5°	6384.6	6301.3	7735.5	11134.4	16029.2	19819.9	19690.3	17778.0	16365.4	14049.1	11507.6
75°	2939.4	2843.7	3864.7	6816.4	12503.8	17562.1	18003.2	16636.8	14292.8	11183.8	6893.5
77.5°	875.9	848.2	1243.0	2751.2	7266.7	12938.7	13108.4	12553.2	9977.8	6125.5	2556.9
80°	487.3	490.4	641.5	1030.2	3195.4	7479.5	8090.2	7754.0	4894.8	2023.3	851.3
82.5°	271.4	286.8	401.0	610.7	1468.1	3432.9	3695.0	3562.4	1770.4	950.0	465.7
85°	141.9	148.0	209.7	326.9	832.8	1085.7	1116.5	1196.7	919.1	647.7	249.8
87.5°	55.5	55.5	77.1	135.7	308.4	336.2	302.3	367.0	527.4	419.5	123.4
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°	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5	2945.5
2.5°	2991.8	2967.1	2964.0	2923.9	2936.3	2902.3	2905.4	2899.3	2902.3	2896.2	2880.8
5°	2976.4	2957.9	2905.4	2939.4	2908.5	2951.7	2985.6	2973.3	2982.5	2979.5	2982.5
7.5°	2998.0	2973.3	2967.1	2948.6	2976.4	2994.9	3022.6	3099.7	3093.6	3102.8	3121.3
10°	3062.7	3035.0	3016.5	3044.2	3028.8	3087.4	3118.3	3158.3	3229.3	3232.4	3195.4
12.5°	3189.2	3170.7	3133.7	3139.8	3192.3	3210.8	3229.3	3254.0	3300.2	3291.0	3324.9
15°	3334.2	3294.1	3272.5	3266.3	3278.6	3300.2	3297.1	3321.8	3346.5	3368.1	3358.8
17.5°	3439.0	3386.6	3392.8	3423.6	3420.5	3414.3	3374.3	3361.9	3374.3	3386.6	3380.4
20°	3547.0	3553.1	3506.9	3479.1	3466.8	3405.1	3374.3	3337.2	3300.2	3318.7	3346.5
22.5°	3682.7	3654.9	3587.1	3503.8	3442.1	3405.1	3309.5	3244.7	3244.7	3263.2	3254.0
25°	3836.9	3778.3	3661.1	3510.0	3432.9	3275.6	3207.7	3198.4	3173.8	3201.5	3213.9
27.5°	3957.2	3904.8	3744.4	3488.4	3275.6	3149.1	3109.0	3096.7	3136.8	3139.8	3189.2
30°	4006.5	3991.1	3756.7	3432.9	3115.2	2911.6	2886.9	2942.4	2985.6	3050.4	3053.5
32.5°	4071.3	4077.5	3775.2	3303.3	2905.4	2701.9	2664.9	2732.7	2856.1	2908.5	2948.6
35°	4179.3	4210.1	3759.8	3142.9	2683.4	2489.0	2482.9	2501.4	2621.7	2714.2	2766.6
37.5°	4367.4	4361.2	3756.7	2951.7	2507.6	2304.0	2254.6	2260.8	2341.0	2418.1	2408.9
40°	4620.3	4595.6	3747.5	2701.9	2279.3	2146.7	2063.4	2032.6	2026.4	2004.8	2011.0
42.5°	4965.8	4916.4	3744.4	2449.0	2072.7	1930.8	1872.2	1792.0	1733.4	1622.4	1628.5
45°	5446.9	5360.6	3664.2	2211.5	1869.1	1751.9	1662.5	1603.8	1477.4	1338.6	1338.6
47.5°	6190.2	5909.6	3667.3	1949.3	1671.7	1576.1	1514.4	1412.6	1276.9	1165.9	1153.5
50°	7285.2	6643.6	3562.4	1742.6	1511.3	1446.5	1381.8	1264.6	1135.0	1057.9	1067.2
52.5°	8697.8	7738.6	3559.3	1557.6	1384.9	1338.6	1267.7	1162.8	1067.2	1017.8	999.3
55°	10381.8	9188.2	3670.3	1406.5	1255.3	1230.6	1199.8	1113.4	1020.9	977.7	974.6
57.5°	12106.0	10603.9	3849.2	1298.5	1144.3	1162.8	1141.2	1073.3	999.3	950.0	943.8
60°	13638.9	11726.6	3488.4	1169.0	1045.6	1085.7	1116.5	1057.9	1017.8	1014.7	993.2
62.5°	14795.5	12207.8	2652.5	1070.3	993.2	1067.2	1150.5	1187.5	1169.0	1193.6	1196.7
65°	15218.1	11917.8	1825.9	1017.8	953.1	1110.4	1295.4	1283.1	1175.1	1128.9	1153.5
67.5°	14625.9	10742.7	1354.0	956.1	925.3	1199.8	1378.7	1224.5	1061.0	1054.8	1036.3
70°	12577.9	9104.9	1104.2	891.4	879.0	1150.5	1341.7	1135.0	999.3	959.2	940.7
72°	10021.0	7090.9	968.5	845.1	805.0	1027.1	1255.3	1064.1	946.9	897.5	875.9
72.5°	9148.1	6572.7	950.0	823.5	789.6	999.3	1212.1	1042.5	934.6	891.4	857.4
75°	5018.2	3365.0	835.9	755.7	666.2	863.6	1122.7	977.7	882.1	820.4	814.3
77.5°	1866.0	1304.7	721.7	669.3	576.8	746.4	1020.9	928.4	801.9	724.8	709.4
80°	715.6	687.8	589.1	564.4	484.2	653.9	940.7	832.8	681.6	604.5	579.9
82.5°	434.9	401.0	447.2	441.1	370.1	595.3	885.2	780.3	604.5	490.4	475.0
85°	237.5	237.5	311.5	299.2	259.1	475.0	669.3	518.2	382.5	314.6	320.8
87.5°	104.9	123.4	166.6	157.3	141.9	268.3	326.9	274.5	191.2	129.5	138.8
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)