

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: P478491

Luminaire Tested: **IFLD-M-SA4D-730-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478491
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

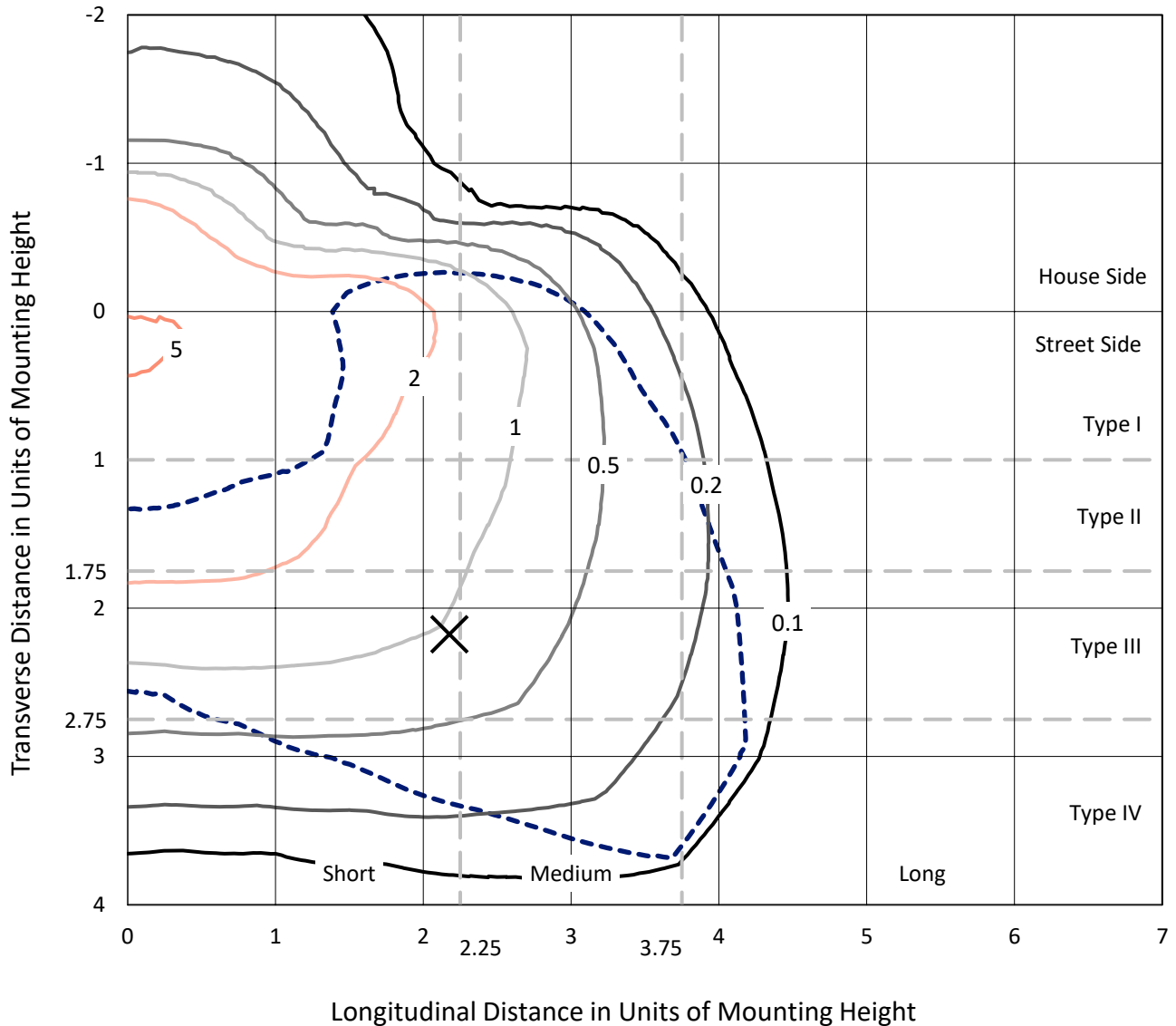
Lumens per Lamp: N/A
Luminaire Lumens: 28794.2 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 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

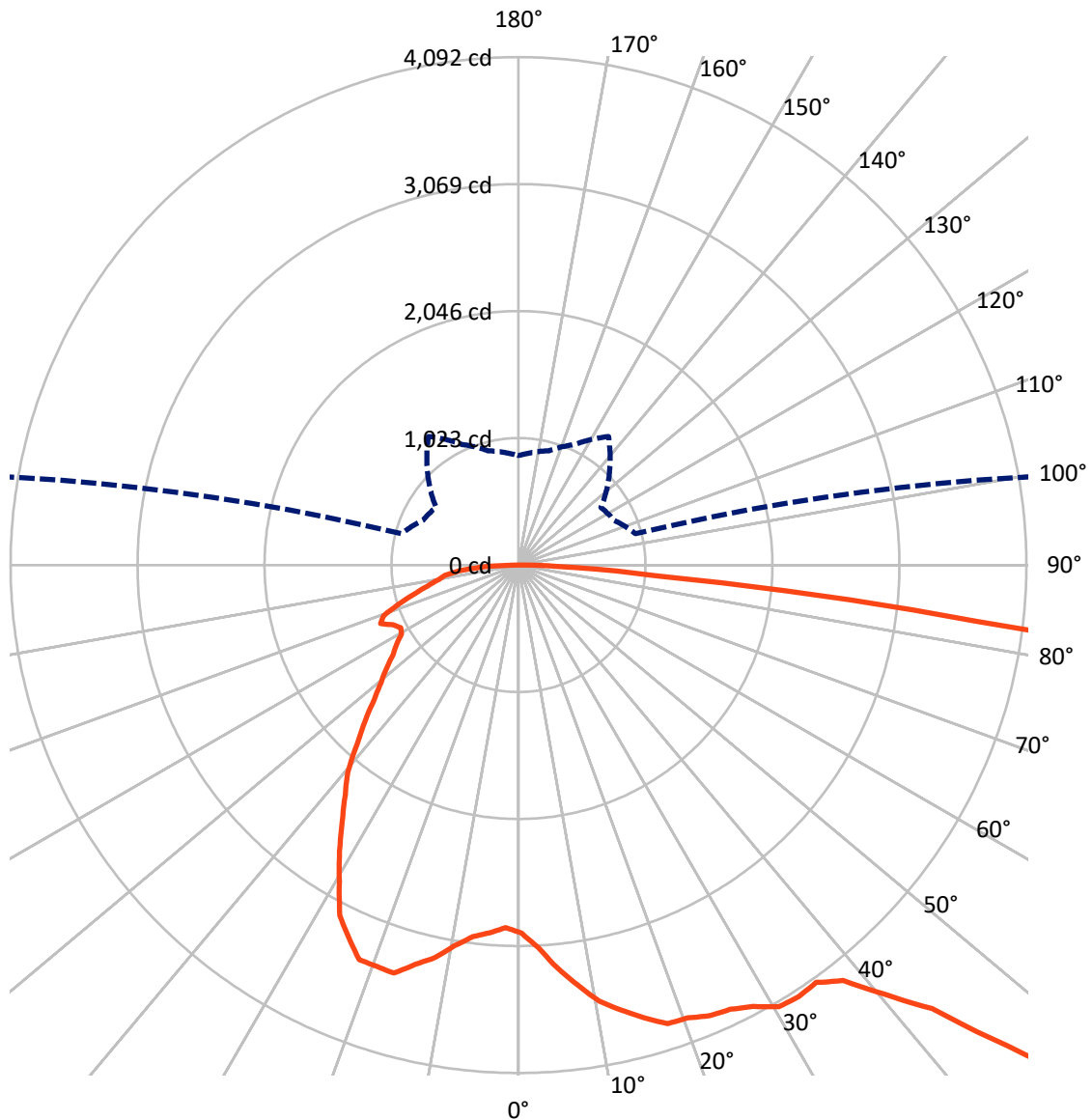
× Max cd
 - - - 1/2 Max cd



Based on 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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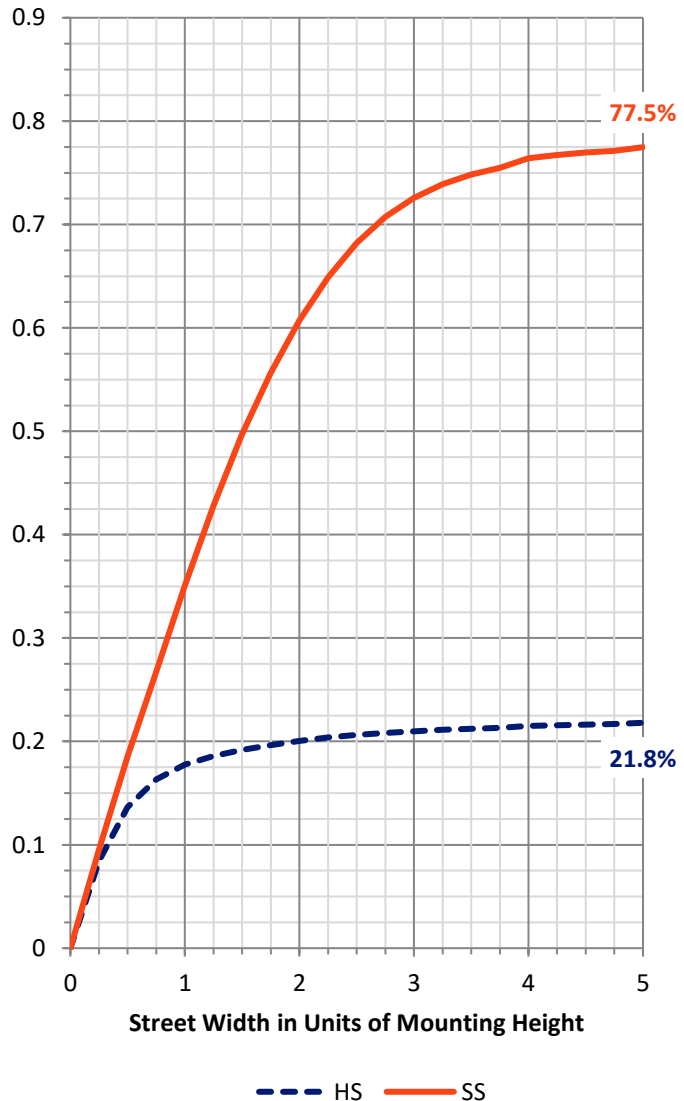
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6409.8	0.0	6409.8
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	22384.5	0.0	22384.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	28794.2	0.0	28794.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.1
10°-20°	1009.5	3.5
20°-30°	1704.8	5.9
30°-40°	2359.2	8.2
40°-50°	3374.6	11.7
50°-60°	5442.9	18.9
60°-70°	8027.4	27.9
70°-80°	5829.3	20.2
80°-90°	743.1	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°	28794.2	100.0
0°-180°	28794.2	100.0

Coefficient of Utilization



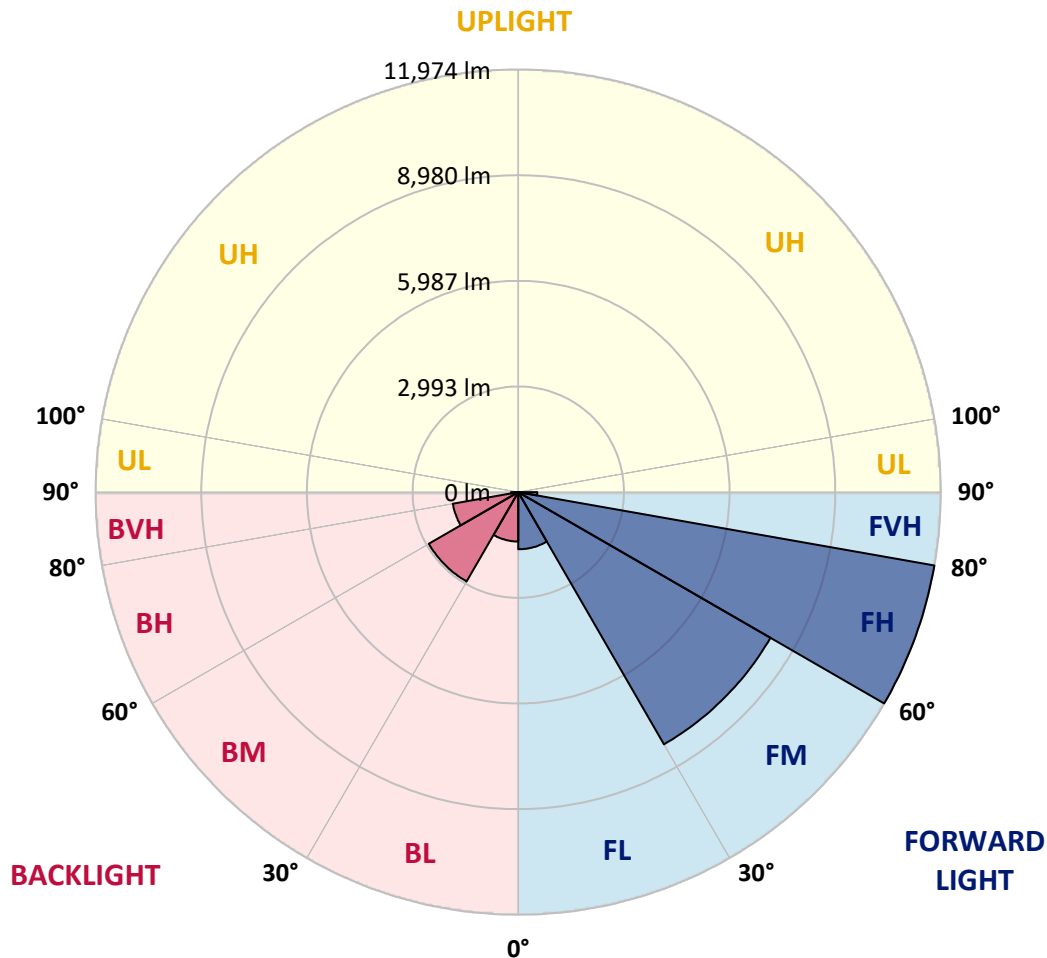
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1618.3	5.6			
FM (30°-60°)	8251.4	28.7			
FH (60°-80°)	11973.9	41.6			G4/12000
FVH (80°-90°)	540.9	1.9			G4/750
BL (0°-30°)	1399.5	4.9	B3/2500		
BM (30°-60°)	2925.2	10.2	B3/5000		
BH (60°-80°)	1882.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	202.2	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°	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3
2.5°	3123.6	3142.3	3123.6	3120.5	3089.5	3067.7	3086.4	3058.4	3027.4	3015.0	2987.0
5°	3409.3	3412.4	3378.3	3381.4	3316.2	3247.8	3260.3	3176.4	3086.4	3052.2	2996.3
7.5°	3701.2	3667.0	3617.3	3601.8	3499.3	3424.8	3415.5	3341.0	3201.3	3123.6	3046.0
10°	3890.6	3903.0	3822.3	3754.0	3667.0	3577.0	3573.9	3434.1	3353.4	3238.5	3139.2
12.5°	4058.2	4061.4	3993.0	3884.4	3775.7	3663.9	3679.4	3617.3	3480.7	3372.0	3272.7
15°	4188.7	4170.0	4095.5	3996.1	3881.3	3794.3	3785.0	3732.2	3617.3	3527.3	3362.7
17.5°	4225.9	4216.6	4142.1	4036.5	3924.7	3859.5	3884.4	3797.4	3750.9	3670.1	3511.8
20°	4154.5	4132.8	4120.3	4002.4	3921.6	3915.4	3893.7	3912.3	3834.7	3760.2	3645.3
22.5°	4024.1	4014.8	4008.6	3915.4	3878.2	3906.1	3943.4	3971.3	3958.9	3887.5	3757.1
25°	3890.6	3934.0	3893.7	3850.2	3903.0	3974.4	3965.1	4055.1	4055.1	4033.4	3924.7
27.5°	3983.7	3955.8	3924.7	3903.0	3921.6	4033.4	4027.2	4135.9	4176.2	4135.9	4011.7
30°	4216.6	4188.7	4098.6	4002.4	3977.5	4098.6	4129.7	4225.9	4244.5	4145.2	4039.6
32.5°	4654.4	4638.9	4496.1	4213.5	4061.4	4129.7	4145.2	4253.9	4238.3	4176.2	4132.8
35°	5303.4	5250.6	5051.9	4573.7	4238.3	4170.0	4129.7	4216.6	4275.6	4244.5	4204.2
37.5°	6014.4	5955.4	5710.1	5104.6	4558.2	4278.7	4247.7	4319.1	4387.4	4371.9	4288.0
40°	6694.4	6694.4	6473.9	5769.1	5033.2	4542.6	4548.8	4468.1	4530.2	4502.3	4517.8
42.5°	7365.1	7340.2	7250.2	6548.5	5542.4	4983.5	4884.2	4682.4	4794.1	4784.8	4806.6
45°	8045.1	8026.5	8001.6	7275.0	6272.1	5579.7	5526.9	5163.6	5266.1	5222.6	5315.8
47.5°	8588.5	8610.2	8610.2	8085.4	7051.5	6374.6	6297.0	5722.5	5918.1	5939.9	5961.6
50°	9051.1	9060.4	9051.1	8858.6	7920.9	7284.4	7126.0	6542.3	6737.9	6908.6	7107.4
52.5°	9690.7	9703.2	9659.7	9585.2	9100.8	8240.7	8063.7	7414.8	7815.3	7995.4	8352.5
55°	10479.4	10386.3	10305.5	10361.4	10234.1	9293.3	9110.1	8315.2	8917.6	9156.7	9870.8
57.5°	10625.3	10706.1	10911.0	11355.0	11538.2	10317.9	10212.4	9420.6	10162.7	10370.7	11563.1
60°	11140.8	11007.3	11510.3	12472.8	12677.8	11653.1	11544.4	10631.6	11401.6	11618.9	13124.9
62.5°	11479.2	11473.0	12218.2	13360.9	13826.6	13037.9	12817.5	12205.8	12739.9	12951.0	14826.4
65°	11379.9	11469.9	12792.6	13882.5	14786.1	14612.2	14484.9	13559.6	14264.4	14245.8	15934.9
67.5°	10473.2	10727.8	12429.4	14258.2	16214.4	16531.1	16490.7	15462.9	15503.3	15109.0	16428.6
70°	9215.7	9128.7	10892.4	13867.0	16928.5	18807.0	18797.7	16878.8	16618.0	15298.4	15012.7
72°	7079.4	6983.2	8433.2	11907.7	16552.8	19716.8	19996.3	17860.0	16605.6	14512.8	12401.4
72.5°	6427.4	6343.5	7787.4	11209.1	16136.7	19952.8	19822.4	17897.3	16475.2	14143.3	11584.8
75°	2959.1	2862.8	3890.6	6862.1	12587.7	17679.9	18123.9	16748.4	14388.6	11258.8	6939.7
77.5°	881.8	853.9	1251.3	2769.7	7315.4	13025.5	13196.3	12637.4	10044.7	6166.5	2574.1
80°	490.6	493.7	645.8	1037.1	3216.8	7529.6	8144.4	7806.0	4927.7	2036.9	857.0
82.5°	273.2	288.8	403.7	614.8	1478.0	3455.9	3719.8	3586.3	1782.3	956.3	468.9
85°	142.8	149.0	211.1	329.1	838.4	1093.0	1124.0	1204.7	925.3	652.1	251.5
87.5°	55.9	55.9	77.6	136.6	310.5	338.4	304.3	369.5	531.0	422.3	124.2
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°	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3	2965.3
2.5°	3011.9	2987.0	2983.9	2943.5	2956.0	2921.8	2924.9	2918.7	2921.8	2915.6	2900.1
5°	2996.3	2977.7	2924.9	2959.1	2928.0	2971.5	3005.6	2993.2	3002.5	2999.4	3002.5
7.5°	3018.1	2993.2	2987.0	2968.4	2996.3	3015.0	3042.9	3120.5	3114.3	3123.6	3142.3
10°	3083.3	3055.3	3036.7	3064.6	3049.1	3108.1	3139.2	3179.5	3250.9	3254.1	3216.8
12.5°	3210.6	3192.0	3154.7	3160.9	3213.7	3232.3	3250.9	3275.8	3322.4	3313.0	3347.2
15°	3356.5	3316.2	3294.4	3288.2	3300.6	3322.4	3319.3	3344.1	3368.9	3390.7	3381.4
17.5°	3462.1	3409.3	3415.5	3446.6	3443.5	3437.2	3396.9	3384.5	3396.9	3409.3	3403.1
20°	3570.8	3577.0	3530.4	3502.5	3490.0	3427.9	3396.9	3359.6	3322.4	3341.0	3368.9
22.5°	3707.4	3679.4	3611.1	3527.3	3465.2	3427.9	3331.7	3266.5	3266.5	3285.1	3275.8
25°	3862.6	3803.6	3685.6	3533.5	3455.9	3297.5	3229.2	3219.9	3195.1	3223.0	3235.4
27.5°	3983.7	3930.9	3769.5	3511.8	3297.5	3170.2	3129.8	3117.4	3157.8	3160.9	3210.6
30°	4033.4	4017.9	3781.9	3455.9	3136.1	2931.1	2906.3	2962.2	3005.6	3070.9	3074.0
32.5°	4098.6	4104.8	3800.5	3325.5	2924.9	2720.0	2682.7	2751.0	2875.2	2928.0	2968.4
35°	4207.3	4238.3	3785.0	3164.0	2701.4	2505.7	2499.5	2518.2	2639.3	2732.4	2785.2
37.5°	4396.7	4390.5	3781.9	2971.5	2524.4	2319.4	2269.8	2276.0	2356.7	2434.3	2425.0
40°	4651.3	4626.5	3772.6	2720.0	2294.6	2161.1	2077.3	2046.2	2040.0	2018.3	2024.5
42.5°	4999.1	4949.4	3769.5	2465.4	2086.6	1943.7	1884.7	1804.0	1745.0	1633.2	1639.4
45°	5483.4	5396.5	3688.8	2226.3	1881.6	1763.6	1673.6	1614.6	1487.3	1347.6	1347.6
47.5°	6231.8	5949.2	3691.9	1962.4	1682.9	1586.7	1524.6	1422.1	1285.5	1173.7	1161.3
50°	7334.0	6688.2	3586.3	1754.3	1521.5	1456.2	1391.0	1273.1	1142.6	1065.0	1074.3
52.5°	8756.1	7790.5	3583.2	1568.0	1394.1	1347.6	1276.2	1170.6	1074.3	1024.7	1006.0
55°	10451.5	9249.8	3695.0	1415.9	1263.7	1238.9	1207.8	1120.9	1027.8	984.3	981.2
57.5°	12187.2	10675.0	3875.1	1307.2	1152.0	1170.6	1148.9	1080.5	1006.0	956.3	950.1
60°	13730.4	11805.2	3511.8	1176.8	1052.6	1093.0	1124.0	1065.0	1024.7	1021.5	999.8
62.5°	14894.7	12289.6	2670.3	1077.4	999.8	1074.3	1158.2	1195.4	1176.8	1201.6	1204.7
65°	15320.1	11997.8	1838.2	1024.7	959.4	1117.8	1304.1	1291.7	1183.0	1136.4	1161.3
67.5°	14724.0	10814.7	1363.1	962.6	931.5	1207.8	1387.9	1232.7	1068.1	1061.9	1043.3
70°	12662.2	9166.0	1111.6	897.3	884.9	1158.2	1350.7	1142.6	1006.0	965.7	947.0
72°	10088.2	7138.4	975.0	850.8	810.4	1034.0	1263.7	1071.2	953.2	903.6	881.8
72.5°	9209.5	6616.8	956.3	829.0	794.9	1006.0	1220.3	1049.5	940.8	897.3	863.2
75°	5051.9	3387.6	841.5	760.7	670.7	869.4	1130.2	984.3	888.0	825.9	819.7
77.5°	1878.5	1313.4	726.6	673.8	580.6	751.4	1027.8	934.6	807.3	729.7	714.2
80°	720.4	692.4	593.1	568.2	487.5	658.3	947.0	838.4	686.2	608.6	583.7
82.5°	437.8	403.7	450.2	444.0	372.6	599.3	891.1	785.6	608.6	493.7	478.2
85°	239.1	239.1	313.6	301.2	260.8	478.2	673.8	521.6	385.0	316.7	322.9
87.5°	105.6	124.2	167.7	158.4	142.8	270.1	329.1	276.3	192.5	130.4	139.7
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)