

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: P478414

Luminaire Tested: **IFLD-M-SA4E-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478414
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-722-U-T4W
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens
Light Source: (64) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

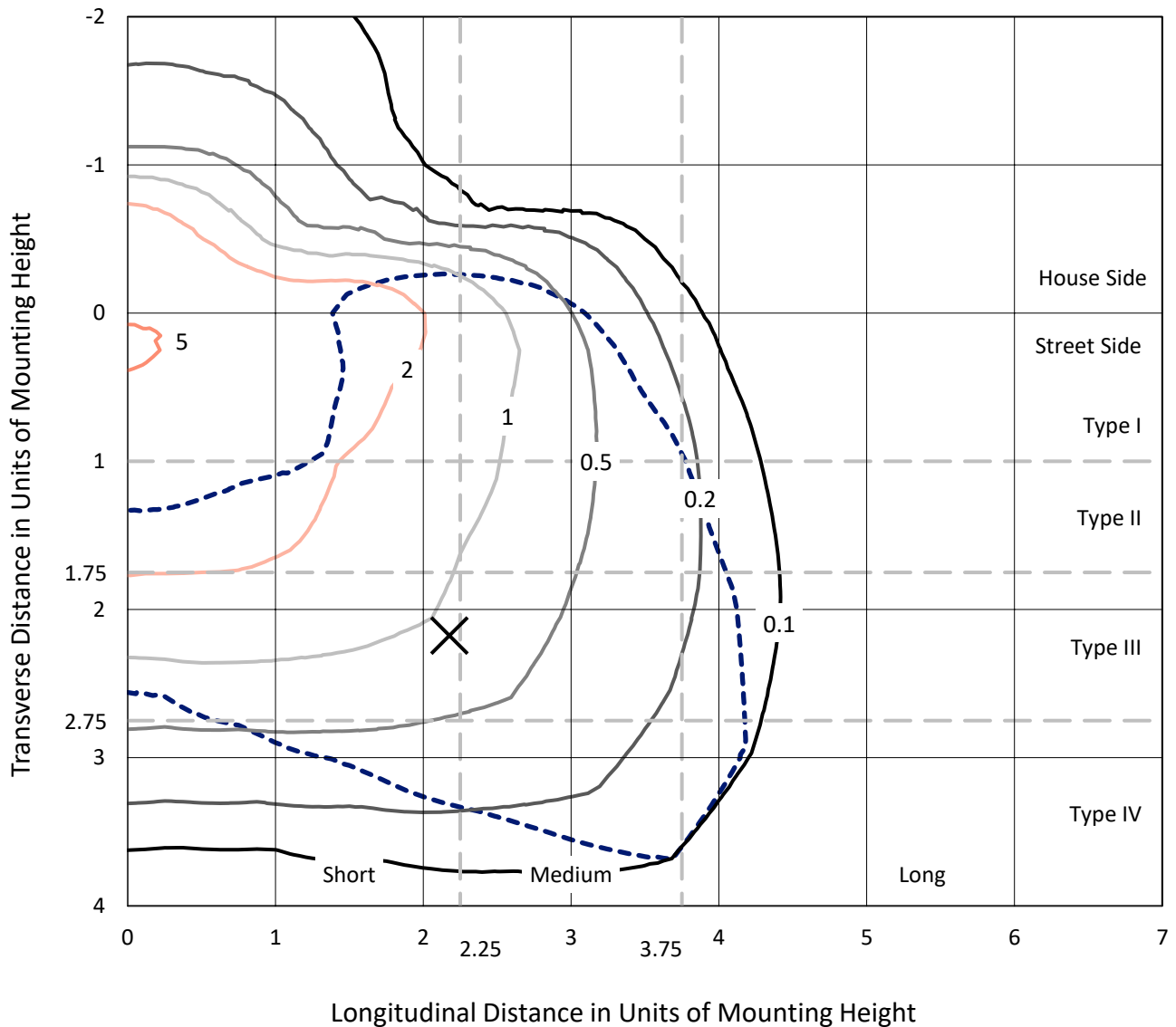
Lumens per Lamp: N/A
Luminaire Lumens: 26955.8 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 314.8
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

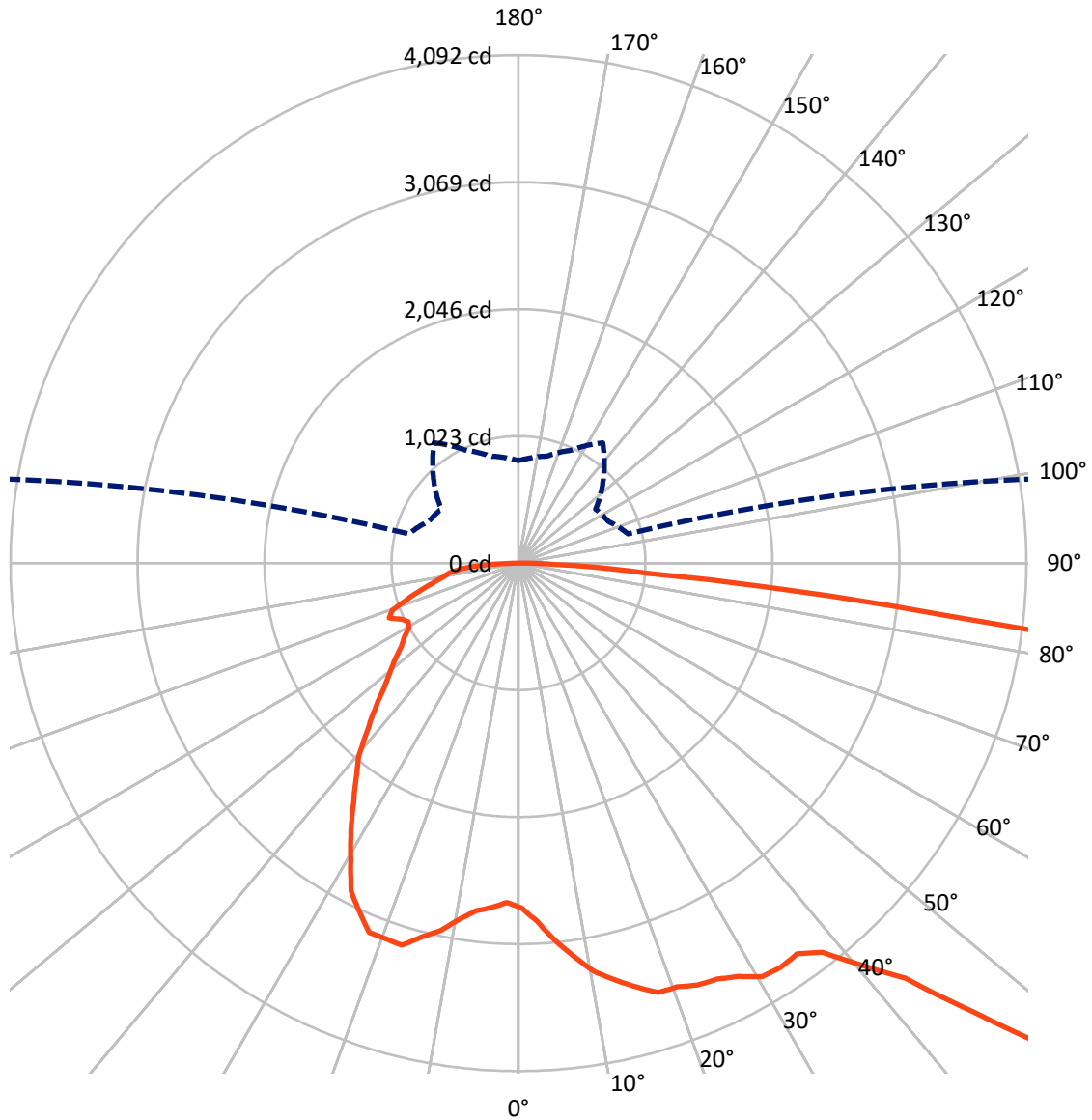
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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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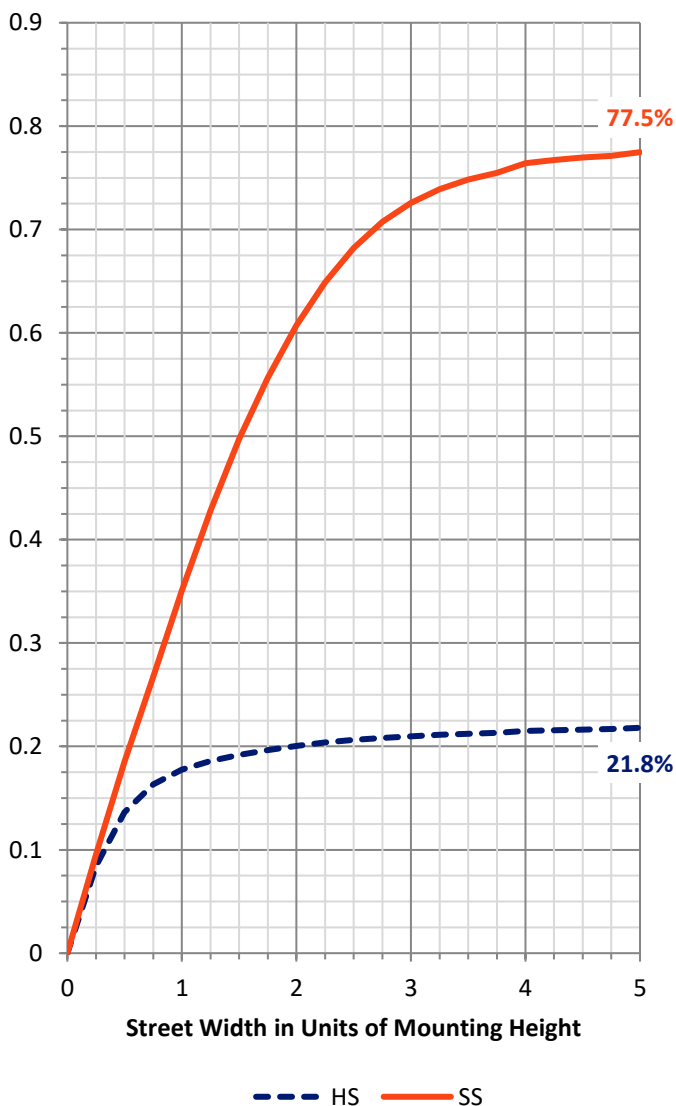
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6000.5	0.0	6000.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	20955.3	0.0	20955.3
	% Fixture	77.7	0.0	77.7
Total	Lumens	26955.8	0.0	26955.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.1	1.1
10°-20°	945.1	3.5
20°-30°	1596.0	5.9
30°-40°	2208.6	8.2
40°-50°	3159.1	11.7
50°-60°	5095.3	18.9
60°-70°	7514.9	27.9
70°-80°	5457.1	20.2
80°-90°	695.6	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°	26955.8	100.0
0°-180°	26955.8	100.0

Coefficient of Utilization



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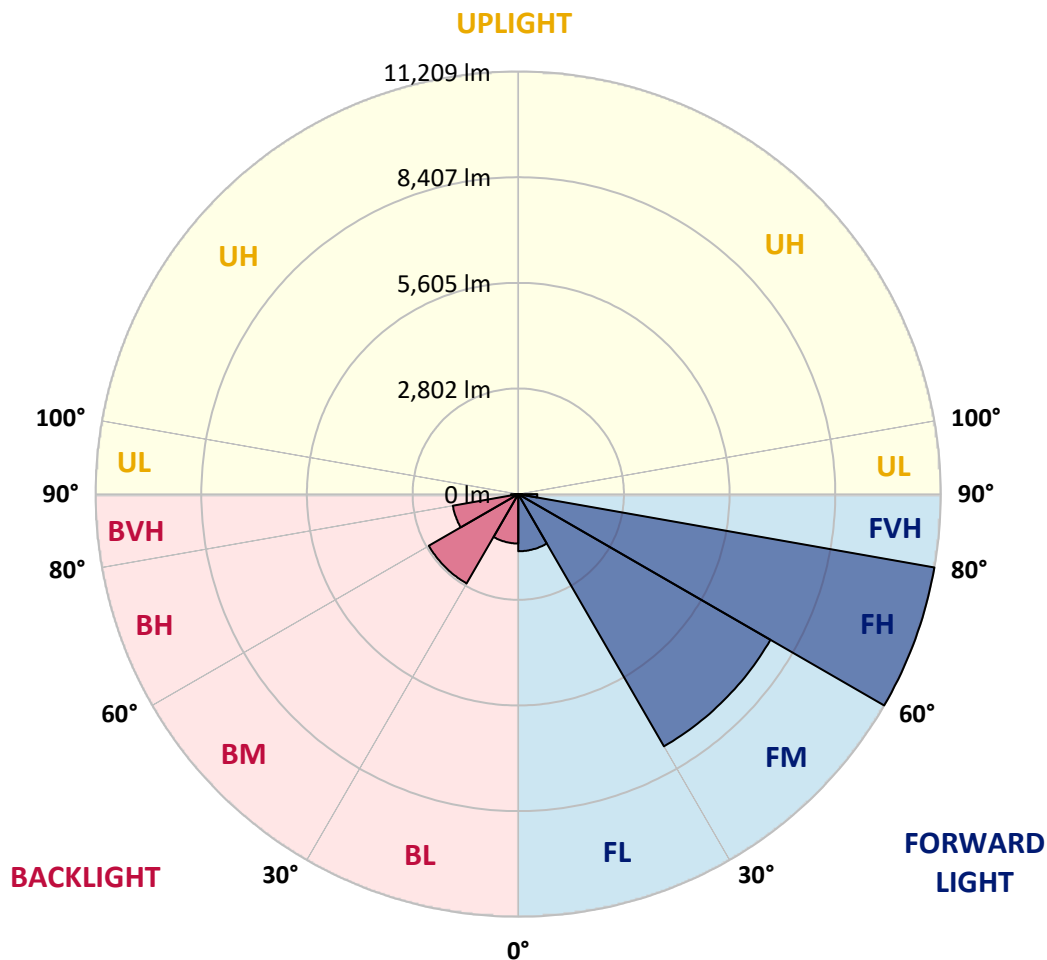
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.9	5.6			
FM (30°-60°)	7724.6	28.7			
FH (60°-80°)	11209.4	41.6			G4/12000
FVH (80°-90°)	506.3	1.9			G4/750
BL (0°-30°)	1310.2	4.9	B3/2500		
BM (30°-60°)	2738.4	10.2	B3/5000		
BH (60°-80°)	1762.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	189.3	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°	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0
2.5°	2924.2	2941.6	2924.2	2921.3	2892.2	2871.9	2889.3	2863.2	2834.1	2822.5	2796.3
5°	3191.6	3194.5	3162.6	3165.5	3104.4	3040.5	3052.1	2973.6	2889.3	2857.3	2805.0
7.5°	3464.9	3432.9	3386.4	3371.8	3275.9	3206.2	3197.4	3127.7	2996.9	2924.2	2851.5
10°	3642.2	3653.8	3578.2	3514.3	3432.9	3348.6	3345.7	3214.9	3139.3	3031.8	2938.7
12.5°	3799.1	3802.0	3738.1	3636.4	3534.6	3430.0	3444.5	3386.4	3258.5	3156.7	3063.7
15°	3921.2	3903.8	3834.0	3741.0	3633.5	3552.1	3543.3	3493.9	3386.4	3302.1	3148.0
17.5°	3956.1	3947.4	3877.6	3778.8	3674.1	3613.1	3636.4	3555.0	3511.4	3435.8	3287.5
20°	3889.2	3868.9	3857.3	3746.8	3671.2	3665.4	3645.1	3662.5	3589.9	3520.1	3412.5
22.5°	3767.2	3758.4	3752.6	3665.4	3630.5	3656.7	3691.6	3717.7	3706.1	3639.3	3517.2
25°	3642.2	3682.9	3645.1	3604.4	3653.8	3720.7	3711.9	3796.2	3796.2	3775.9	3674.1
27.5°	3729.4	3703.2	3674.1	3653.8	3671.2	3775.9	3770.1	3871.8	3909.6	3871.8	3755.5
30°	3947.4	3921.2	3836.9	3746.8	3723.6	3836.9	3866.0	3956.1	3973.5	3880.5	3781.7
32.5°	4357.2	4342.7	4209.0	3944.5	3802.0	3866.0	3880.5	3982.3	3967.7	3909.6	3868.9
35°	4964.7	4915.3	4729.3	4281.7	3967.7	3903.8	3866.0	3947.4	4002.6	3973.5	3935.8
37.5°	5630.4	5575.2	5345.5	4778.7	4267.1	4005.5	3976.4	4043.3	4107.3	4092.7	4014.2
40°	6267.0	6267.0	6060.6	5400.8	4711.9	4252.6	4258.4	4182.8	4241.0	4214.8	4229.3
42.5°	6894.8	6871.6	6787.3	6130.4	5188.6	4665.4	4572.3	4383.4	4488.0	4479.3	4499.7
45°	7531.4	7514.0	7490.7	6810.5	5871.7	5223.5	5174.0	4833.9	4929.9	4889.2	4976.4
47.5°	8040.1	8060.4	8060.4	7569.2	6601.3	5967.6	5894.9	5357.2	5540.3	5560.6	5581.0
50°	8473.2	8481.9	8473.2	8293.0	7415.1	6819.3	6671.0	6124.5	6307.7	6467.5	6653.6
52.5°	9072.0	9083.6	9042.9	8973.2	8519.7	7714.5	7548.9	6941.3	7316.3	7484.9	7819.2
55°	9810.3	9723.1	9647.5	9699.9	9580.7	8699.9	8528.4	7784.3	8348.2	8572.0	9240.6
57.5°	9946.9	10022.5	10214.4	10630.0	10801.5	9659.2	9560.3	8819.1	9513.8	9708.6	10824.8
60°	10429.5	10304.5	10775.4	11676.5	11868.3	10909.1	10807.3	9952.8	10673.6	10877.1	12286.9
62.5°	10746.3	10740.5	11438.1	12507.8	12943.8	12205.5	11999.1	11426.5	11926.4	12124.1	13879.8
65°	10653.3	10737.6	11975.9	12996.1	13842.0	13679.2	13560.0	12693.8	13353.7	13336.2	14917.5
67.5°	9804.5	10042.9	11635.8	13347.8	15179.1	15475.6	15437.8	14475.7	14513.5	14144.3	15379.7
70°	8627.3	8545.9	10196.9	12981.6	15847.7	17606.3	17597.5	15801.2	15557.0	14321.6	14054.2
72°	6627.4	6537.3	7894.8	11147.4	15495.9	18457.9	18719.5	16719.7	15545.4	13586.2	11609.6
72.5°	6017.0	5938.5	7290.2	10493.4	15106.4	18678.8	18556.8	16754.6	15423.3	13240.3	10845.1
75°	2770.1	2680.0	3642.2	6423.9	11784.0	16551.1	16966.8	15679.1	13469.9	10539.9	6496.6
77.5°	825.5	799.4	1171.4	2592.8	6848.3	12193.9	12353.7	11830.5	9403.4	5772.8	2409.7
80°	459.3	462.2	604.6	970.9	3011.4	7048.9	7624.4	7307.6	4613.0	1906.8	802.3
82.5°	255.8	270.3	377.9	575.5	1383.6	3235.2	3482.3	3357.3	1668.5	895.3	438.9
85°	133.7	139.5	197.7	308.1	784.8	1023.2	1052.2	1127.8	866.2	610.4	235.4
87.5°	52.3	52.3	72.7	127.9	290.7	316.8	284.9	345.9	497.1	395.3	116.3
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°	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0	2776.0
2.5°	2819.6	2796.3	2793.4	2755.6	2767.2	2735.3	2738.2	2732.4	2735.3	2729.4	2714.9
5°	2805.0	2787.6	2738.2	2770.1	2741.1	2781.8	2813.7	2802.1	2810.8	2807.9	2810.8
7.5°	2825.4	2802.1	2796.3	2778.9	2805.0	2822.5	2848.6	2921.3	2915.5	2924.2	2941.6
10°	2886.4	2860.3	2842.8	2869.0	2854.4	2909.7	2938.7	2976.5	3043.4	3046.3	3011.4
12.5°	3005.6	2988.2	2953.3	2959.1	3008.5	3025.9	3043.4	3066.6	3110.2	3101.5	3133.5
15°	3142.2	3104.4	3084.1	3078.3	3089.9	3110.2	3107.3	3130.6	3153.8	3174.2	3165.5
17.5°	3241.0	3191.6	3197.4	3226.5	3223.6	3217.8	3180.0	3168.4	3180.0	3191.6	3185.8
20°	3342.8	3348.6	3305.0	3278.8	3267.2	3209.1	3180.0	3145.1	3110.2	3127.7	3153.8
22.5°	3470.7	3444.5	3380.6	3302.1	3243.9	3209.1	3119.0	3057.9	3057.9	3075.4	3066.6
25°	3616.0	3560.8	3450.3	3307.9	3235.2	3087.0	3023.0	3014.3	2991.1	3017.2	3028.8
27.5°	3729.4	3680.0	3528.8	3287.5	3087.0	2967.8	2930.0	2918.4	2956.2	2959.1	3005.6
30°	3775.9	3761.3	3540.4	3235.2	2935.8	2744.0	2720.7	2773.1	2813.7	2874.8	2877.7
32.5°	3836.9	3842.7	3557.9	3113.1	2738.2	2546.3	2511.4	2575.4	2691.7	2741.1	2778.9
35°	3938.7	3967.7	3543.3	2962.0	2528.9	2345.8	2339.9	2357.4	2470.7	2558.0	2607.4
37.5°	4116.0	4110.2	3540.4	2781.8	2363.2	2171.4	2124.8	2130.7	2206.2	2278.9	2270.2
40°	4354.3	4331.1	3531.7	2546.3	2148.1	2023.1	1944.6	1915.6	1909.7	1889.4	1895.2
42.5°	4679.9	4633.4	3528.8	2308.0	1953.3	1819.6	1764.4	1688.8	1633.6	1529.0	1534.8
45°	5133.3	5052.0	3453.2	2084.1	1761.5	1651.0	1566.7	1511.5	1392.3	1261.5	1261.5
47.5°	5833.9	5569.4	3456.1	1837.1	1575.5	1485.4	1427.2	1331.3	1203.4	1098.8	1087.1
50°	6865.8	6261.2	3357.3	1642.3	1424.3	1363.3	1302.2	1191.8	1069.7	997.0	1005.7
52.5°	8197.1	7293.1	3354.4	1467.9	1305.1	1261.5	1194.7	1095.8	1005.7	959.2	941.8
55°	9784.2	8659.2	3459.0	1325.5	1183.1	1159.8	1130.7	1049.3	962.1	921.4	918.5
57.5°	11409.0	9993.4	3627.6	1223.7	1078.4	1095.8	1075.5	1011.6	941.8	895.3	889.5
60°	12853.7	11051.5	3287.5	1101.7	985.4	1023.2	1052.2	997.0	959.2	956.3	936.0
62.5°	13943.7	11505.0	2499.8	1008.6	936.0	1005.7	1084.2	1119.1	1101.7	1124.9	1127.8
65°	14342.0	11231.7	1720.8	959.2	898.2	1046.4	1220.8	1209.2	1107.5	1063.9	1087.1
67.5°	13783.9	10124.3	1276.1	901.1	872.0	1130.7	1299.3	1154.0	999.9	994.1	976.7
70°	11853.8	8580.8	1040.6	840.1	828.4	1084.2	1264.4	1069.7	941.8	904.0	886.6
72°	9444.1	6682.6	912.7	796.5	758.7	968.0	1183.1	1002.8	892.4	845.9	825.5
72.5°	8621.5	6194.3	895.3	776.1	744.1	941.8	1142.4	982.5	880.7	840.1	808.1
75°	4729.3	3171.3	787.7	712.2	627.9	813.9	1058.1	921.4	831.3	773.2	767.4
77.5°	1758.6	1229.6	680.2	630.8	543.6	703.4	962.1	874.9	755.8	683.1	668.6
80°	674.4	648.2	555.2	531.9	456.4	616.2	886.6	784.8	642.4	569.7	546.5
82.5°	409.9	377.9	421.5	415.7	348.8	561.0	834.2	735.4	569.7	462.2	447.6
85°	223.8	223.8	293.6	282.0	244.2	447.6	630.8	488.3	360.4	296.5	302.3
87.5°	98.8	116.3	157.0	148.2	133.7	252.9	308.1	258.7	180.2	122.1	130.8
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)