

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: P478413

Luminaire Tested: **IFLD-M-SA4D-722-U-T4W**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478413
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-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

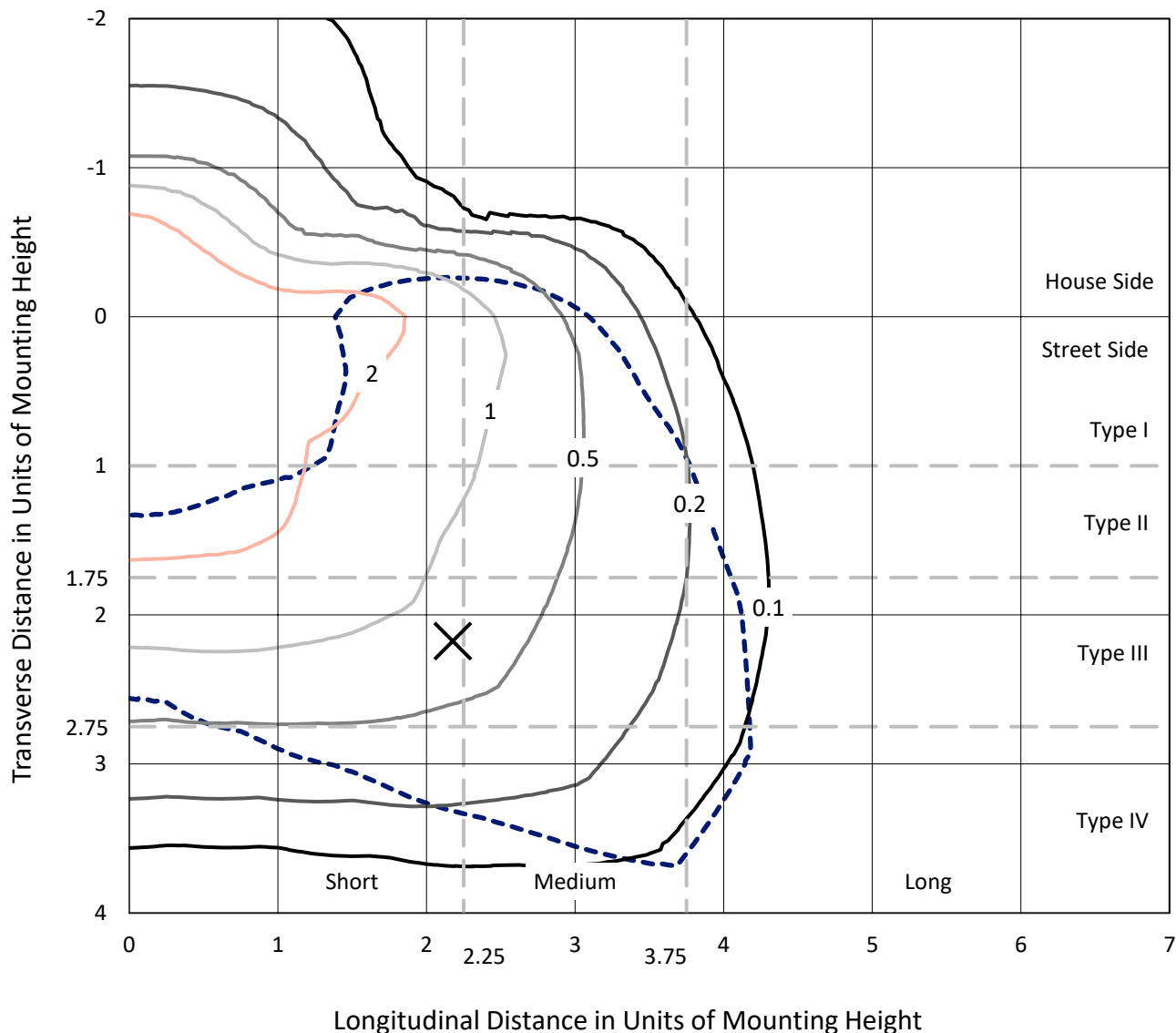
Lumens per Lamp: N/A
Luminaire Lumens: 23292.1 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

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

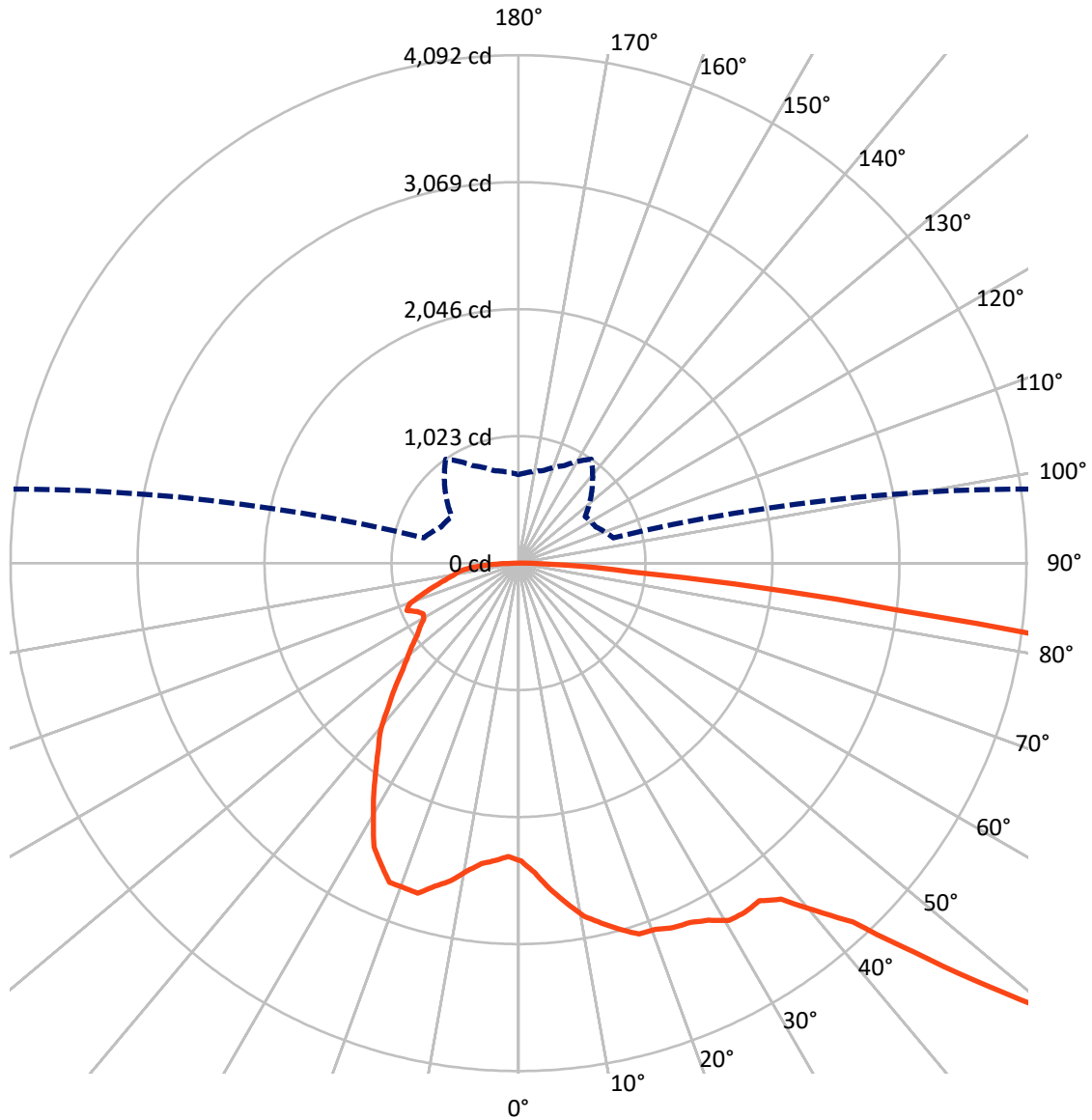
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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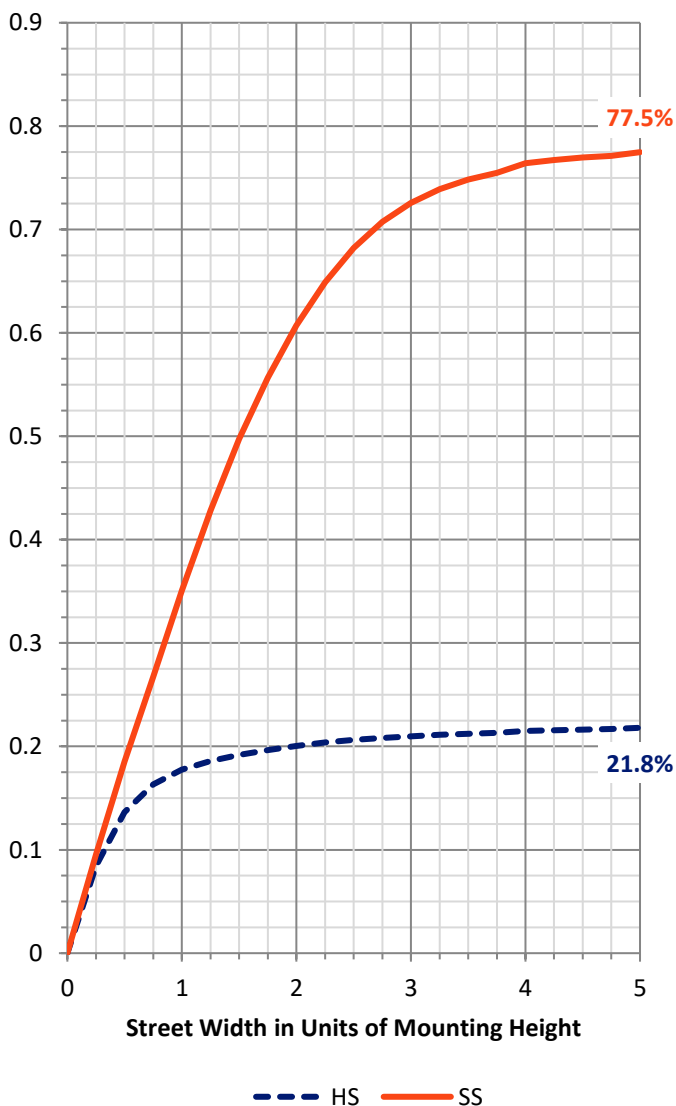
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5185.0	0.0	5185.0
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18107.2	0.0	18107.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	23292.1	0.0	23292.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.4	1.1
10°-20°	816.6	3.5
20°-30°	1379.1	5.9
30°-40°	1908.4	8.2
40°-50°	2729.8	11.7
50°-60°	4402.8	18.9
60°-70°	6493.5	27.9
70°-80°	4715.4	20.2
80°-90°	601.1	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°	23292.1	100.0
0°-180°	23292.1	100.0

Coefficient of Utilization



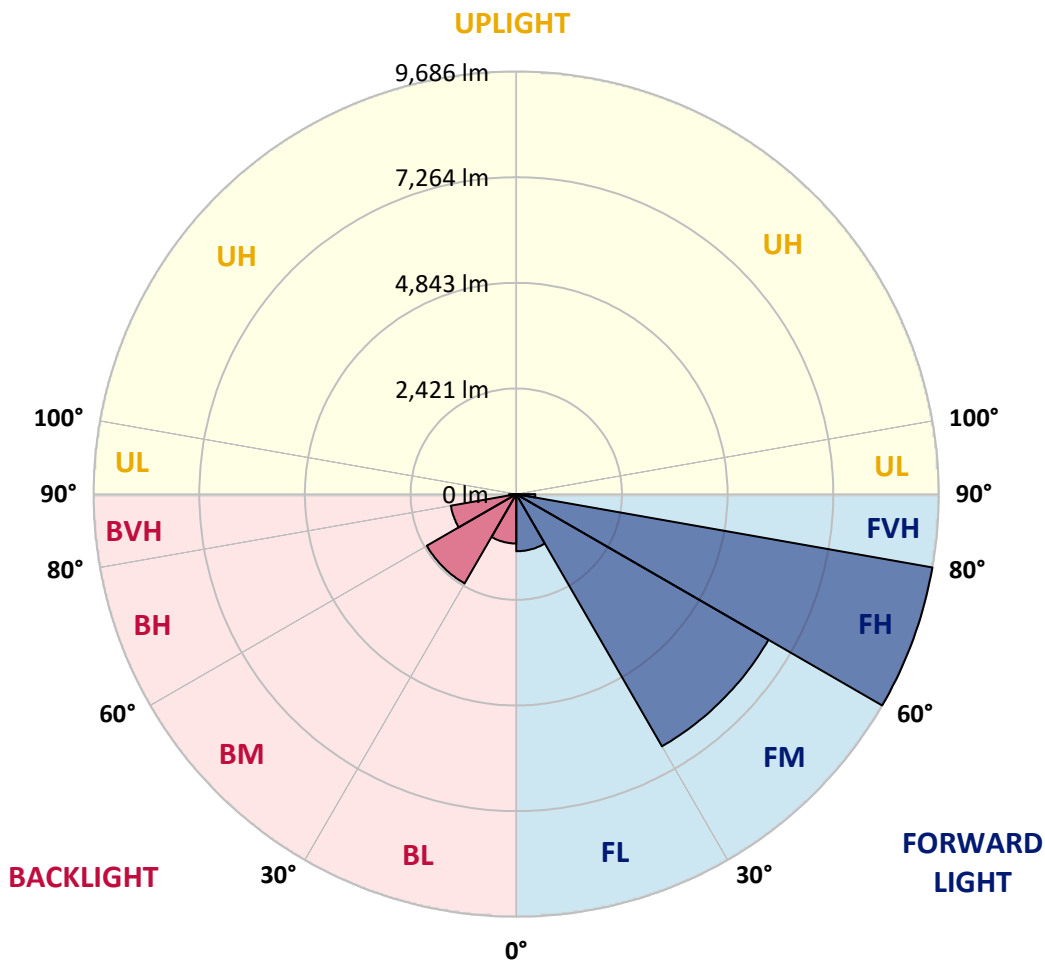
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.0	5.6			
FM (30°-60°)	6674.7	28.7			
FH (60°-80°)	9685.9	41.6			G4/12000
FVH (80°-90°)	437.5	1.9			G3/500
BL (0°-30°)	1132.1	4.9	B3/2500		
BM (30°-60°)	2366.3	10.2	B2/2500		
BH (60°-80°)	1523.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	163.6	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°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2526.8	2541.8	2526.8	2524.3	2499.1	2481.6	2496.6	2474.0	2448.9	2438.9	2416.3
5°	2757.8	2760.4	2732.7	2735.2	2682.5	2627.2	2637.3	2569.5	2496.6	2469.0	2423.8
7.5°	2993.9	2966.3	2926.1	2913.6	2830.7	2770.4	2762.9	2702.6	2589.6	2526.8	2464.0
10°	3147.2	3157.2	3091.9	3036.6	2966.3	2893.5	2891.0	2777.9	2712.6	2619.7	2539.3
12.5°	3282.8	3285.3	3230.0	3142.1	3054.2	2963.8	2976.4	2926.1	2815.6	2727.7	2647.3
15°	3388.3	3373.2	3312.9	3232.6	3139.6	3069.3	3061.8	3019.1	2926.1	2853.3	2720.2
17.5°	3418.4	3410.9	3350.6	3265.2	3174.8	3122.0	3142.1	3071.8	3034.1	2968.8	2840.7
20°	3360.6	3343.1	3333.0	3237.6	3172.3	3167.2	3149.7	3164.7	3101.9	3041.7	2948.7
22.5°	3255.2	3247.6	3242.6	3167.2	3137.1	3159.7	3189.9	3212.5	3202.4	3144.6	3039.2
25°	3147.2	3182.3	3149.7	3114.5	3157.2	3215.0	3207.4	3280.3	3280.3	3262.7	3174.8
27.5°	3222.5	3199.9	3174.8	3157.2	3172.3	3262.7	3257.7	3345.6	3378.2	3345.6	3245.1
30°	3410.9	3388.3	3315.4	3237.6	3217.5	3315.4	3340.6	3418.4	3433.5	3353.1	3267.7
32.5°	3765.0	3752.5	3636.9	3408.4	3285.3	3340.6	3353.1	3441.0	3428.5	3378.2	3343.1
35°	4290.0	4247.3	4086.5	3699.7	3428.5	3373.2	3340.6	3410.9	3458.6	3433.5	3400.8
37.5°	4865.2	4817.4	4619.0	4129.2	3687.2	3461.1	3436.0	3493.8	3549.0	3536.5	3468.7
40°	5415.2	5415.2	5236.9	4666.7	4071.5	3674.6	3679.6	3614.3	3664.6	3642.0	3654.5
42.5°	5957.7	5937.6	5864.8	5297.2	4483.4	4031.3	3950.9	3787.6	3878.1	3870.5	3888.1
45°	6507.8	6492.7	6472.6	5884.9	5073.6	4513.5	4470.8	4177.0	4259.8	4224.7	4300.0
47.5°	6947.4	6964.9	6964.9	6540.5	5704.1	5156.5	5093.7	4629.1	4787.3	4804.9	4822.5
50°	7321.6	7329.1	7321.6	7165.9	6407.3	5892.4	5764.3	5292.1	5450.4	5588.5	5749.3
52.5°	7839.0	7849.0	7813.9	7753.6	7361.8	6666.0	6522.9	5997.9	6321.9	6467.6	6756.5
55°	8477.0	8401.6	8336.3	8381.5	8278.5	7517.5	7369.3	6726.3	7213.6	7407.0	7984.7
57.5°	8595.0	8660.3	8826.1	9185.3	9333.5	8346.4	8261.0	7620.5	8220.8	8389.1	9353.6
60°	9012.0	8904.0	9310.9	10089.5	10255.3	9426.4	9338.5	8600.0	9222.9	9398.8	10616.9
62.5°	9285.7	9280.7	9883.5	10807.8	11184.6	10546.6	10368.3	9873.5	10305.5	10476.3	11993.3
65°	9205.4	9278.2	10348.2	11229.8	11960.7	11820.0	11717.1	10968.6	11538.7	11523.7	12890.0
67.5°	8472.0	8677.9	10054.3	11533.7	13116.1	13372.3	13339.6	12508.2	12540.9	12221.9	13289.4
70°	7454.7	7384.4	8811.0	11217.2	13693.8	15213.3	15205.8	13653.6	13442.6	12375.1	12144.0
72°	5726.7	5648.8	6821.8	9632.4	13389.9	15949.3	16175.3	14447.3	13432.5	11739.7	10031.7
72.5°	5199.2	5131.4	6299.3	9067.2	13053.3	16140.2	16034.7	14477.4	13327.1	11440.8	9371.1
75°	2393.6	2315.8	3147.2	5550.8	10182.4	14301.6	14660.8	13548.1	11639.2	9107.4	5613.6
77.5°	713.3	690.7	1012.2	2240.4	5917.6	10536.6	10674.7	10222.6	8125.3	4988.2	2082.2
80°	396.8	399.4	522.4	838.9	2602.1	6090.9	6588.2	6314.4	3986.1	1647.7	693.2
82.5°	221.0	233.6	326.5	497.3	1195.6	2795.5	3009.0	2901.0	1441.7	773.6	379.3
85°	115.5	120.6	170.8	266.2	678.2	884.1	909.2	974.5	748.5	527.5	203.4
87.5°	45.2	45.2	62.8	110.5	251.2	273.8	246.1	298.9	429.5	341.6	100.5
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°	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7	2398.7
2.5°	2436.3	2416.3	2413.7	2381.1	2391.1	2363.5	2366.0	2361.0	2363.5	2358.5	2345.9
5°	2423.8	2408.7	2366.0	2393.6	2368.5	2403.7	2431.3	2421.3	2428.8	2426.3	2428.8
7.5°	2441.4	2421.3	2416.3	2401.2	2423.8	2438.9	2461.5	2524.3	2519.2	2526.8	2541.8
10°	2494.1	2471.5	2456.4	2479.0	2466.5	2514.2	2539.3	2572.0	2629.7	2632.3	2602.1
12.5°	2597.1	2582.0	2551.9	2556.9	2599.6	2614.7	2629.7	2649.8	2687.5	2680.0	2707.6
15°	2715.1	2682.5	2664.9	2659.9	2669.9	2687.5	2685.0	2705.1	2725.2	2742.8	2735.2
17.5°	2800.5	2757.8	2762.9	2788.0	2785.5	2780.4	2747.8	2737.7	2747.8	2757.8	2752.8
20°	2888.5	2893.5	2855.8	2833.2	2823.1	2772.9	2747.8	2717.7	2687.5	2702.6	2725.2
22.5°	2999.0	2976.4	2921.1	2853.3	2803.1	2772.9	2695.0	2642.3	2642.3	2657.4	2649.8
25°	3124.5	3076.8	2981.4	2858.3	2795.5	2667.4	2612.2	2604.6	2584.5	2607.1	2617.2
27.5°	3222.5	3179.8	3049.2	2840.7	2667.4	2564.4	2531.8	2521.7	2554.4	2556.9	2597.1
30°	3262.7	3250.1	3059.2	2795.5	2536.8	2371.0	2350.9	2396.2	2431.3	2484.1	2486.6
32.5°	3315.4	3320.5	3074.3	2690.0	2366.0	2200.2	2170.1	2225.4	2325.8	2368.5	2401.2
35°	3403.3	3428.5	3061.8	2559.4	2185.2	2026.9	2021.9	2037.0	2134.9	2210.3	2253.0
37.5°	3556.6	3551.5	3059.2	2403.7	2042.0	1876.2	1836.0	1841.1	1906.4	1969.2	1961.6
40°	3762.5	3742.4	3051.7	2200.2	1856.1	1748.1	1680.3	1655.2	1650.2	1632.6	1637.6
42.5°	4043.8	4003.6	3049.2	1994.3	1687.9	1572.3	1524.6	1459.3	1411.6	1321.2	1326.2
45°	4435.7	4365.3	2983.9	1800.9	1522.1	1426.6	1353.8	1306.1	1203.1	1090.1	1090.1
47.5°	5041.0	4812.4	2986.4	1587.4	1361.3	1283.5	1233.2	1150.4	1039.8	949.4	939.4
50°	5932.6	5410.2	2901.0	1419.1	1230.7	1178.0	1125.2	1029.8	924.3	861.5	869.0
52.5°	7083.0	6301.8	2898.5	1268.4	1127.8	1090.1	1032.3	946.9	869.0	828.9	813.8
55°	8454.4	7482.3	2988.9	1145.3	1022.3	1002.2	977.0	906.7	831.4	796.2	793.7
57.5°	9858.4	8635.2	3134.6	1057.4	931.8	946.9	929.3	874.1	813.8	773.6	768.6
60°	11106.7	9549.5	2840.7	951.9	851.5	884.1	909.2	861.5	828.9	826.3	808.8
62.5°	12048.6	9941.3	2160.1	871.6	808.8	869.0	936.9	967.0	951.9	972.0	974.5
65°	12392.7	9705.2	1486.9	828.9	776.1	904.2	1054.9	1044.9	957.0	919.3	939.4
67.5°	11910.5	8748.2	1102.6	778.6	753.5	977.0	1122.7	997.1	864.0	859.0	843.9
70°	10242.7	7414.5	899.2	725.9	715.8	936.9	1092.6	924.3	813.8	781.1	766.1
72°	8160.5	5774.4	788.7	688.2	655.6	836.4	1022.3	866.5	771.1	730.9	713.3
72.5°	7449.7	5352.4	773.6	670.6	643.0	813.8	987.1	849.0	761.0	725.9	698.3
75°	4086.5	2740.3	680.7	615.4	542.5	703.3	914.3	796.2	718.3	668.1	663.1
77.5°	1519.6	1062.4	587.7	545.0	469.7	607.8	831.4	756.0	653.0	590.2	577.7
80°	582.7	560.1	479.7	459.6	394.3	532.5	766.1	678.2	555.1	492.3	472.2
82.5°	354.1	326.5	364.2	359.2	301.4	484.8	720.9	635.5	492.3	399.4	386.8
85°	193.4	193.4	253.7	243.6	211.0	386.8	545.0	422.0	311.5	256.2	261.2
87.5°	85.4	100.5	135.6	128.1	115.5	218.5	266.2	223.5	155.7	105.5	113.0
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)