

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: P319029

Luminaire Tested: **GAN-SA5A-740-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319029
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23130 lumens
Efficiency: N/A
Efficacy: 142.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

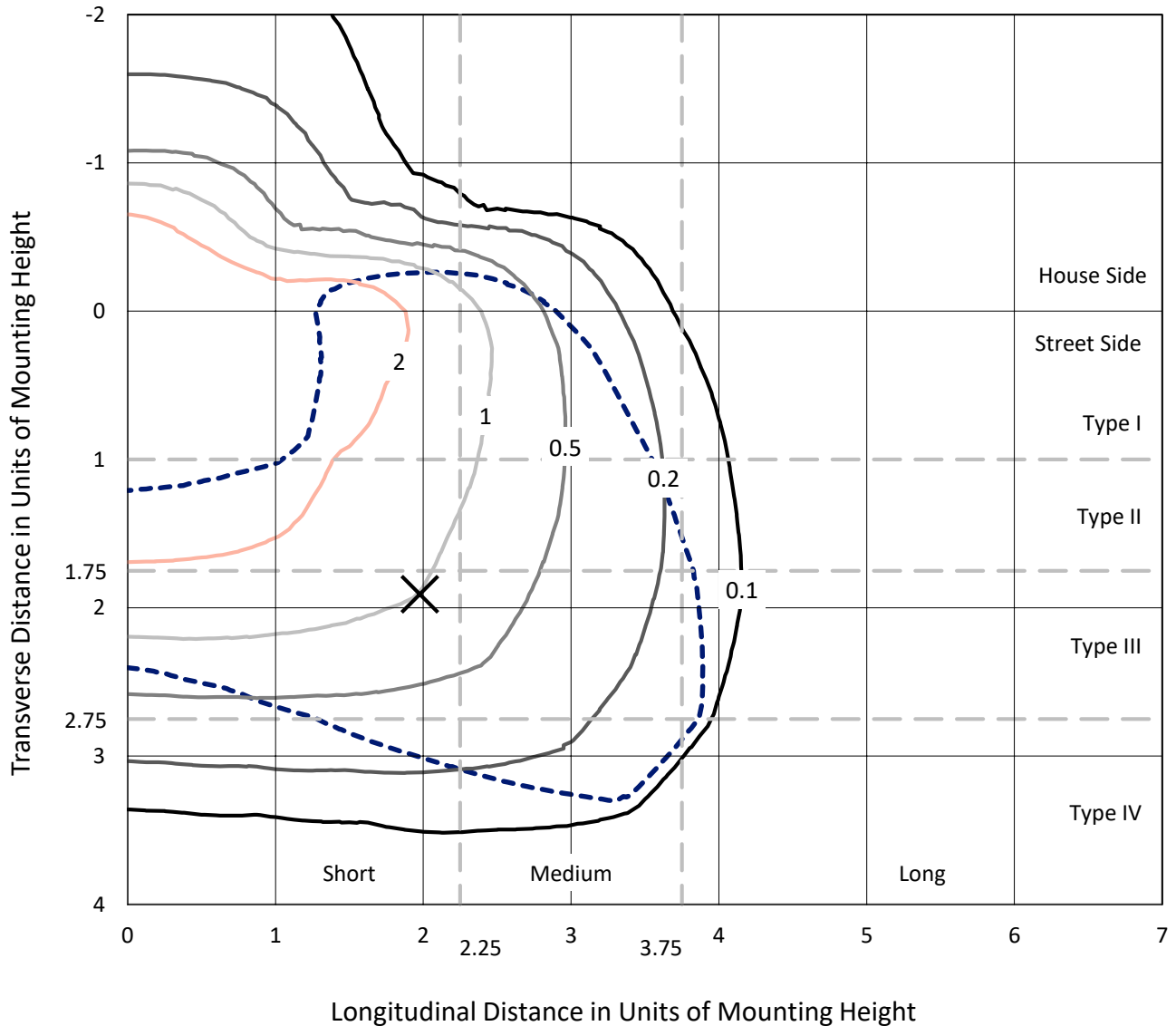
Input Watts (W): 162
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

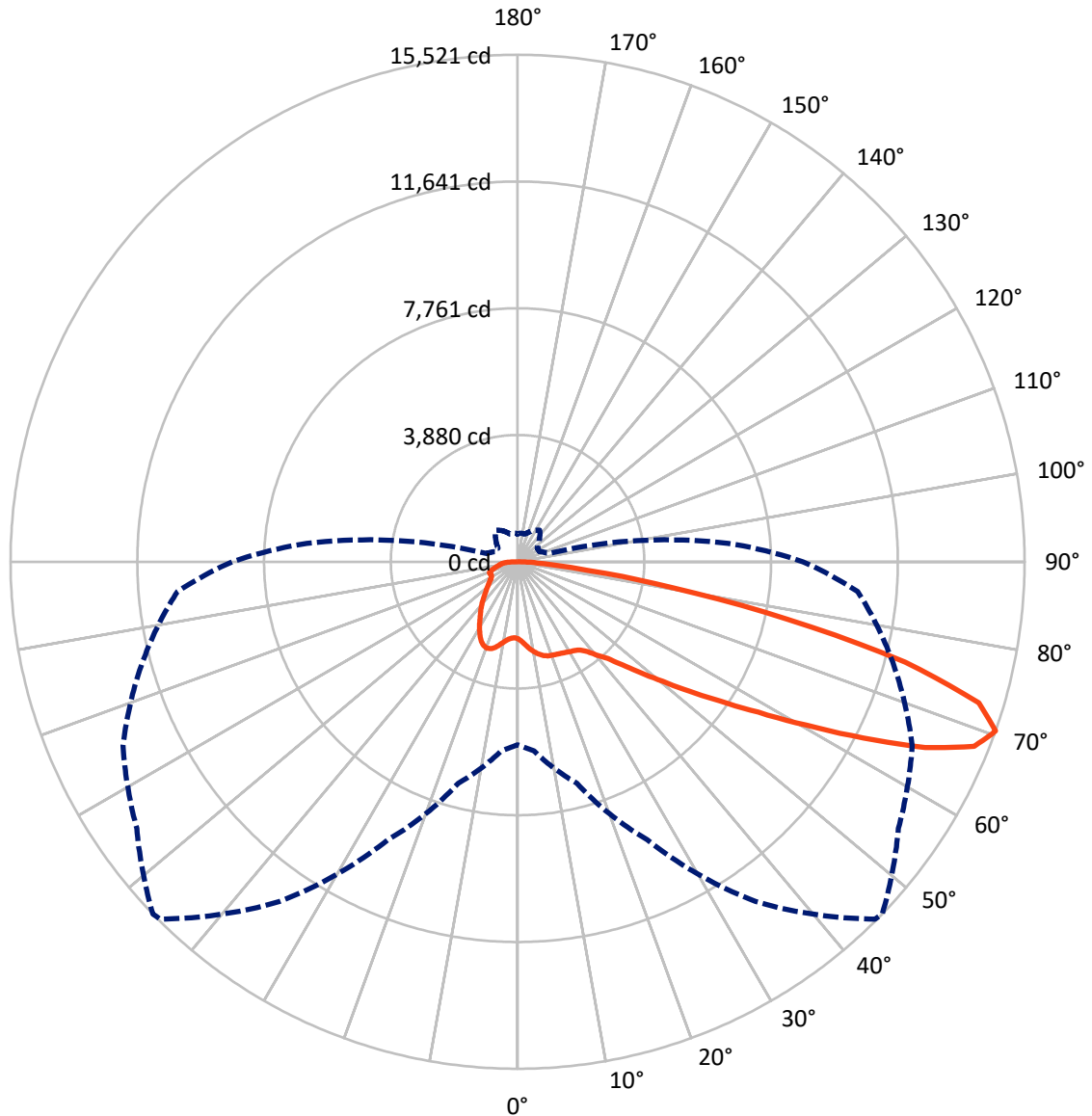
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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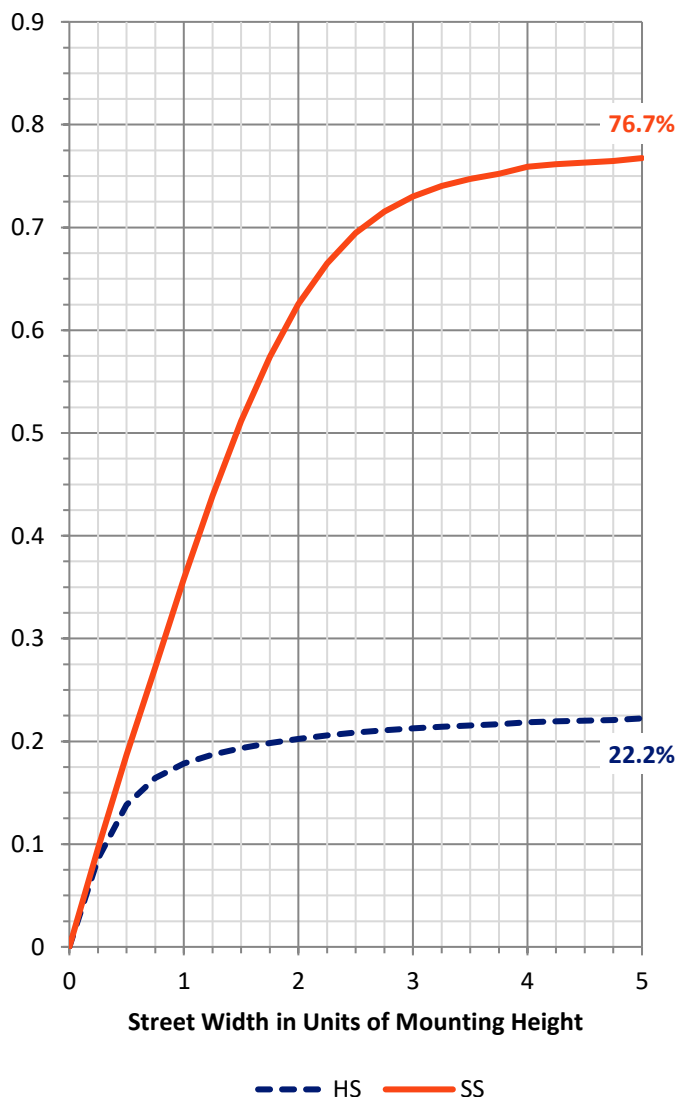
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5301.3	0.0	5301.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17828.7	0.0	17828.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	23130.0	0.0	23130.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.2	1.0
10°-20°	800.4	3.5
20°-30°	1334.5	5.8
30°-40°	1893.8	8.2
40°-50°	2785.6	12.0
50°-60°	4717.4	20.4
60°-70°	6696.3	29.0
70°-80°	4068.1	17.6
80°-90°	593.7	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°	23130.0	100.0
0°-180°	23130.0	100.0

Coefficient of Utilization

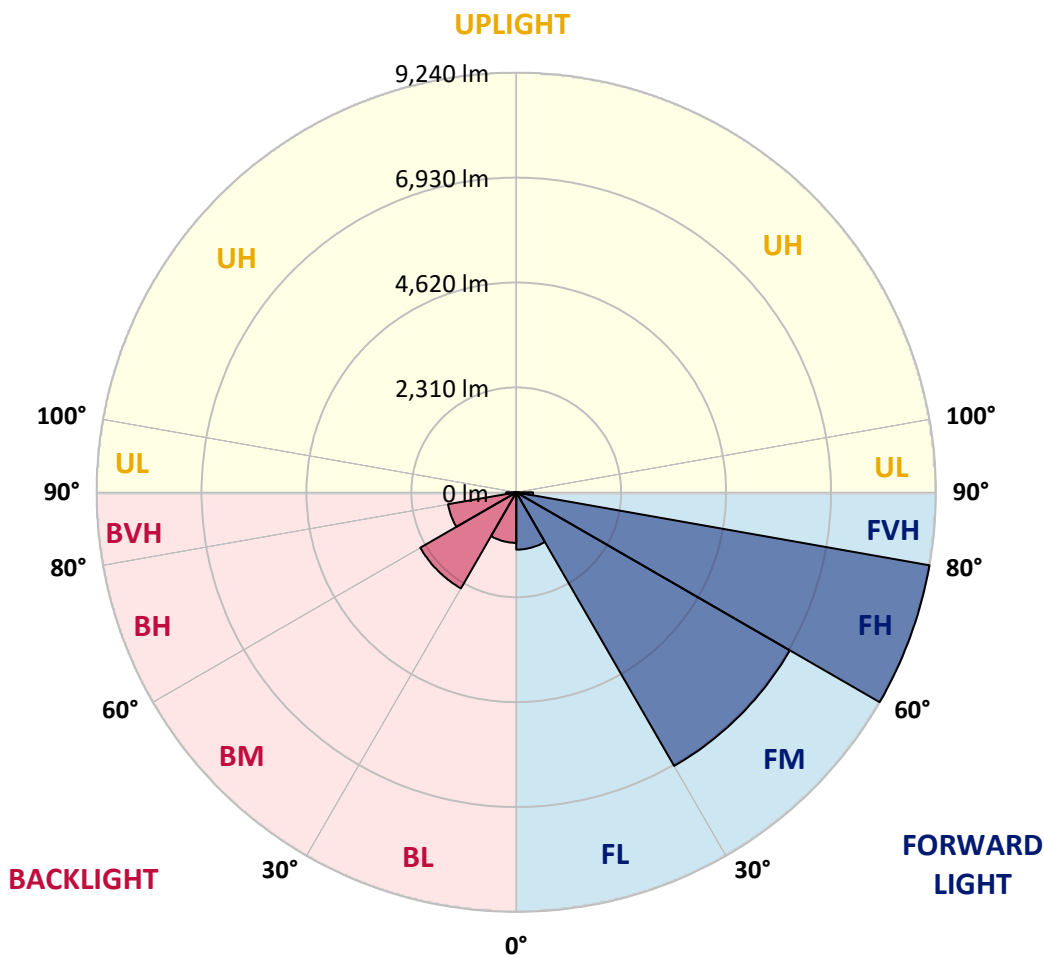


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1262.1	5.5			
FM (30°-60°)	6956.5	30.1			
FH (60°-80°)	9240.3	39.9			G4/12000
FVH (80°-90°)	369.8	1.6			G3/500
BL (0°-30°)	1113.0	4.8	B3/2500		
BM (30°-60°)	2440.3	10.6	B2/2500		
BH (60°-80°)	1524.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	223.9	1.0			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°	45°	46°	55°	65°	75°	85°
0°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2474.4	2476.0	2479.2	2471.3	2449.1	2442.8	2440.4	2417.4	2402.4	2380.2	2361.2
5°	2672.3	2673.9	2669.2	2647.0	2597.9	2561.5	2558.3	2506.1	2458.6	2407.9	2370.0
7.5°	2878.9	2881.3	2866.3	2824.3	2755.4	2692.1	2688.2	2616.9	2544.9	2468.1	2411.1
10°	3061.8	3052.3	3027.7	2969.2	2887.6	2810.1	2806.9	2732.5	2649.4	2556.8	2480.8
12.5°	3183.7	3175.8	3144.1	3072.9	2983.4	2912.2	2905.8	2837.0	2756.2	2654.9	2563.9
15°	3251.0	3256.5	3213.8	3133.0	3045.9	2985.8	2980.2	2931.2	2859.1	2757.0	2652.5
17.5°	3259.7	3264.4	3223.3	3143.3	3072.1	3030.9	3028.5	2996.1	2943.8	2845.7	2736.4
20°	3209.0	3212.2	3178.1	3112.4	3065.7	3053.1	3052.3	3038.0	2999.2	2912.2	2806.1
22.5°	3135.4	3137.8	3113.2	3065.7	3049.9	3069.7	3075.2	3069.7	3042.0	2960.5	2860.7
25°	3117.2	3115.6	3090.3	3042.0	3055.4	3097.4	3104.5	3106.9	3087.9	3016.7	2930.4
27.5°	3205.1	3199.5	3151.2	3073.7	3082.4	3133.0	3142.5	3165.5	3153.6	3091.1	3009.5
30°	3459.1	3449.6	3350.7	3194.0	3151.2	3177.3	3189.2	3225.6	3228.0	3175.8	3114.8
32.5°	3888.2	3876.3	3699.0	3418.8	3267.6	3222.5	3233.6	3288.2	3317.5	3277.1	3211.4
35°	4430.4	4416.9	4184.2	3801.1	3462.3	3308.7	3316.7	3360.2	3418.8	3361.8	3274.7
37.5°	4995.6	4963.1	4739.1	4250.7	3771.8	3493.2	3493.2	3498.7	3526.4	3407.7	3349.1
40°	5557.6	5525.1	5322.5	4779.5	4172.3	3783.7	3765.5	3642.8	3620.6	3518.5	3498.7
42.5°	6080.0	6070.5	5951.0	5377.1	4642.5	4069.4	4044.1	3835.9	3840.7	3777.4	3778.1
45°	6635.7	6635.7	6538.3	5980.3	5190.3	4528.6	4503.2	4196.9	4244.4	4215.1	4285.5
47.5°	7089.3	7103.5	7090.1	6608.8	5827.5	5111.9	5066.0	4697.2	4830.1	4930.7	5135.7
50°	7552.3	7574.5	7576.9	7298.2	6597.7	5805.4	5753.1	5361.3	5658.1	5946.2	6349.2
52.5°	8224.4	8274.2	8075.6	7986.1	7541.3	6628.6	6577.1	6215.4	6710.9	7115.4	7809.6
55°	8847.3	8803.8	8662.1	8717.5	8551.3	7565.8	7527.0	7209.6	7884.0	8409.6	9311.2
57.5°	9184.5	9181.4	9323.9	9561.3	9640.5	8721.5	8689.0	8380.3	9206.7	9601.7	10721.0
60°	9580.3	9585.9	9938.9	10478.0	10804.1	10160.6	10146.3	9912.0	10491.4	10714.6	11826.8
62.5°	9635.7	9735.5	10343.4	11271.1	11893.3	11841.8	11873.5	11291.7	11640.8	11602.8	12652.4
65°	8998.5	9129.9	10230.2	11511.0	12976.2	13680.6	13709.9	12679.3	12547.1	12361.9	12947.7
67.5°	7692.4	7887.2	9082.4	10989.3	13333.2	15039.8	15080.9	13755.1	13299.1	12619.2	12236.8
70°	5598.0	5814.1	7017.2	9385.6	12696.7	15474.3	15521.0	14230.8	13327.6	11887.0	10446.3
72.5°	3381.6	3551.0	4542.8	6909.6	10716.2	14682.8	14765.9	13627.6	12168.0	10068.7	7713.8
75°	1485.0	1595.8	2196.6	3981.6	7671.9	12148.2	12251.9	11664.5	9886.7	7317.2	4559.4
77.5°	632.5	664.1	900.8	1729.6	4337.0	8301.2	8443.6	8522.8	6707.7	3981.6	1926.7
80°	394.2	406.9	509.8	782.9	2029.6	4662.3	4815.9	5014.6	3330.9	1463.6	672.8
82.5°	239.8	254.1	338.8	473.4	1056.7	2113.5	2187.1	2327.2	1292.6	632.5	348.3
85°	144.1	154.4	207.4	299.2	601.6	831.1	830.4	918.2	608.7	406.9	183.6
87.5°	68.9	76.8	110.8	155.1	303.2	311.9	292.1	330.9	369.7	266.8	92.6
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°	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5	2356.5
2.5°	2354.9	2351.7	2341.5	2333.5	2332.0	2327.2	2323.2	2325.6	2328.8	2329.6	2329.6
5°	2354.1	2345.4	2332.0	2326.4	2333.5	2343.0	2354.9	2370.7	2380.2	2387.4	2392.1
7.5°	2392.1	2375.5	2360.5	2357.3	2371.5	2396.9	2423.8	2457.0	2480.0	2495.8	2499.0
10°	2455.4	2434.9	2419.8	2423.0	2448.3	2484.7	2522.7	2565.5	2600.3	2621.7	2623.3
12.5°	2528.3	2508.5	2494.2	2507.7	2549.6	2594.0	2633.5	2670.7	2702.4	2723.8	2723.8
15°	2612.2	2597.9	2581.3	2612.2	2669.2	2708.7	2725.4	2743.6	2761.0	2776.8	2773.6
17.5°	2692.9	2679.5	2670.7	2707.2	2766.5	2784.7	2773.6	2760.2	2760.2	2768.9	2770.5
20°	2762.6	2750.7	2756.2	2791.9	2822.7	2803.7	2762.6	2719.8	2702.4	2707.2	2711.9
22.5°	2823.5	2818.0	2834.6	2851.2	2829.1	2762.6	2686.6	2628.8	2607.4	2605.8	2607.4
25°	2894.8	2894.0	2914.5	2884.5	2786.3	2663.6	2561.5	2505.3	2493.4	2502.9	2518.8
27.5°	2983.4	2992.1	3002.4	2892.4	2699.2	2514.0	2410.3	2371.5	2383.4	2406.4	2421.4
30°	3096.6	3120.4	3098.2	2872.6	2574.2	2343.0	2244.1	2233.0	2265.5	2297.9	2313.7
32.5°	3206.6	3243.8	3190.0	2821.1	2412.7	2161.8	2085.0	2081.8	2121.4	2153.1	2175.2
35°	3295.3	3368.9	3258.9	2719.0	2225.9	1994.7	1938.5	1917.2	1931.4	1968.6	1994.0
37.5°	3410.9	3533.6	3306.4	2563.1	2023.2	1857.0	1791.3	1742.2	1729.6	1744.6	1757.3
40°	3622.2	3784.5	3328.5	2345.4	1825.4	1719.3	1652.8	1580.8	1530.9	1494.5	1495.3
42.5°	3967.3	4111.4	3314.3	2081.0	1642.5	1584.7	1509.5	1426.4	1345.7	1263.3	1257.0
45°	4527.8	4597.4	3271.5	1800.8	1481.8	1443.8	1373.4	1290.3	1182.6	1089.2	1080.5
47.5°	5424.6	5270.3	3205.1	1556.2	1340.1	1324.3	1259.4	1163.6	1049.6	974.4	968.1
50°	6647.6	6241.5	3172.6	1361.5	1215.1	1219.8	1166.8	1065.4	957.8	902.4	896.1
52.5°	8110.4	7372.7	3235.1	1211.1	1114.5	1131.1	1091.6	996.6	906.3	862.8	856.5
55°	9627.8	8544.2	3302.4	1101.9	1019.5	1052.0	1038.5	960.2	878.6	838.3	832.7
57.5°	10926.8	9418.9	3167.9	1013.2	934.8	985.5	997.4	937.2	864.4	828.0	821.6
60°	11744.5	9771.1	2814.8	930.1	867.6	932.5	973.6	930.9	869.9	866.8	862.0
62.5°	12132.3	9740.2	2285.3	864.4	825.6	909.5	991.0	966.5	933.3	961.8	964.1
65°	11958.2	9274.8	1701.9	820.9	795.5	918.2	1043.3	1033.8	951.5	980.0	983.9
67.5°	10812.0	8164.2	1260.2	782.9	762.3	942.8	1138.3	1056.0	915.8	936.4	923.8
70°	8738.9	6472.6	972.0	740.1	728.2	939.6	1181.0	1042.5	877.1	881.8	847.8
72.5°	6026.2	4413.8	790.8	700.5	679.2	856.5	1150.9	1009.2	844.6	808.2	763.1
75°	3277.1	2369.2	672.0	659.4	592.9	752.0	1095.5	985.5	815.3	767.0	741.7
77.5°	1289.5	983.1	583.4	603.2	518.5	664.1	1033.8	940.4	774.9	711.6	699.0
80°	526.4	501.9	483.6	521.6	445.7	581.0	959.4	887.3	726.7	660.2	634.8
82.5°	298.4	311.9	376.0	411.6	361.7	535.1	923.8	844.6	668.9	591.3	561.2
85°	152.8	182.9	262.0	295.3	266.0	455.2	850.9	739.3	536.7	452.8	455.2
87.5°	73.6	102.1	165.4	185.2	172.6	329.3	635.6	535.9	417.9	330.9	320.6
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)