

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: P318999

Luminaire Tested: **GAN-SA5B-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318999
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-SA5B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25830 lumens
Efficiency: N/A
Efficacy: 123.0 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): 210
Input Voltage (V): NR
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

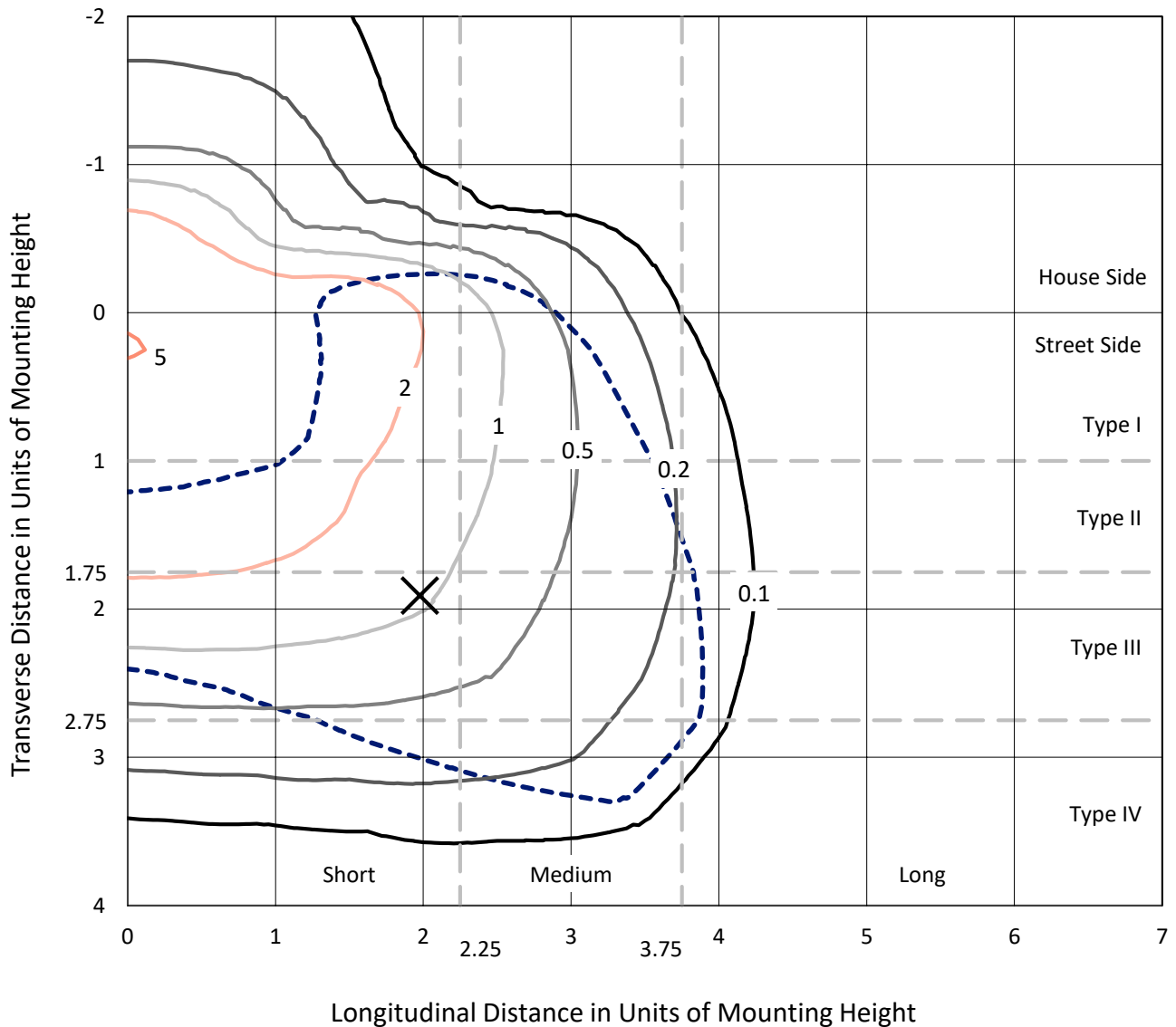




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Iso-Footcandle Lines of Horizontal Illumination

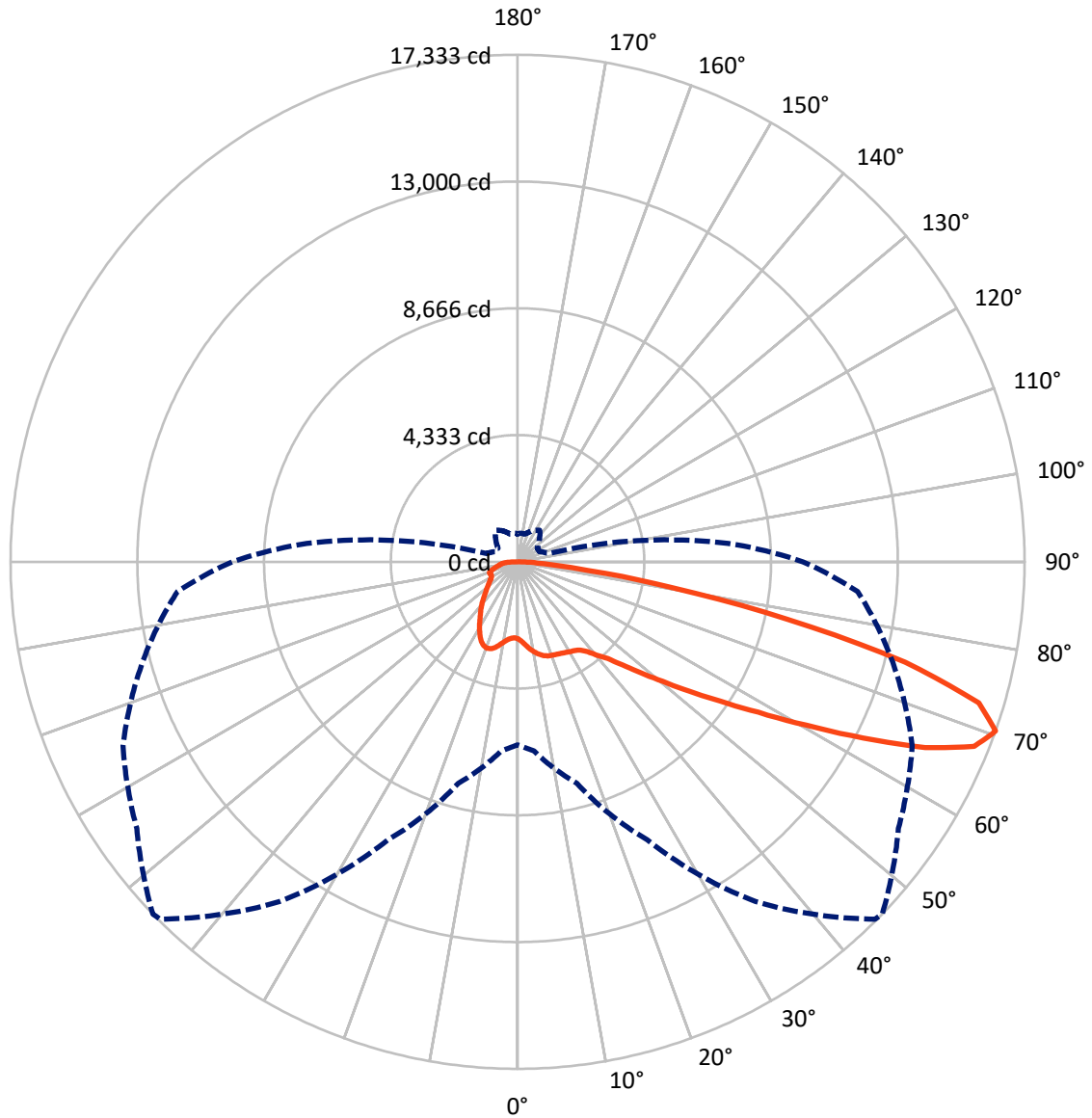
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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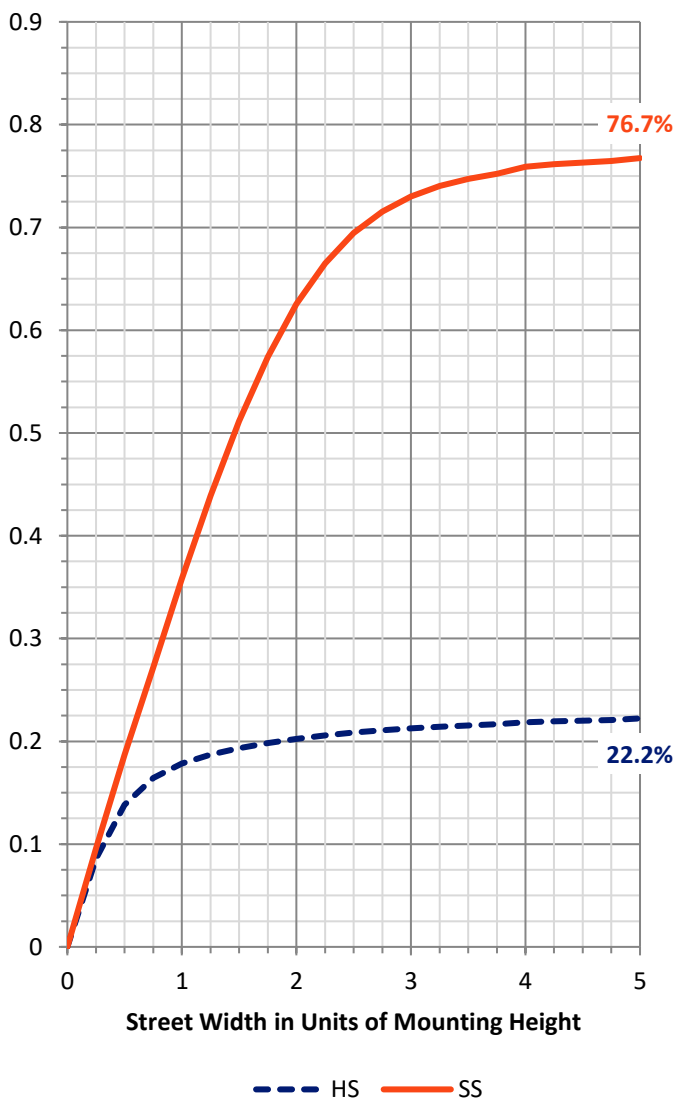
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5920.2	0.0	5920.2
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	19909.8	0.0	19909.8
	% Fixture	77.1	0.0	77.1
Total	Lumens	25830.0	0.0	25830.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	1.0
10°-20°	893.8	3.5
20°-30°	1490.3	5.8
30°-40°	2114.8	8.2
40°-50°	3110.8	12.0
50°-60°	5268.1	20.4
60°-70°	7478.0	29.0
70°-80°	4543.0	17.6
80°-90°	663.0	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°	25830.0	100.0
0°-180°	25830.0	100.0

Coefficient of Utilization



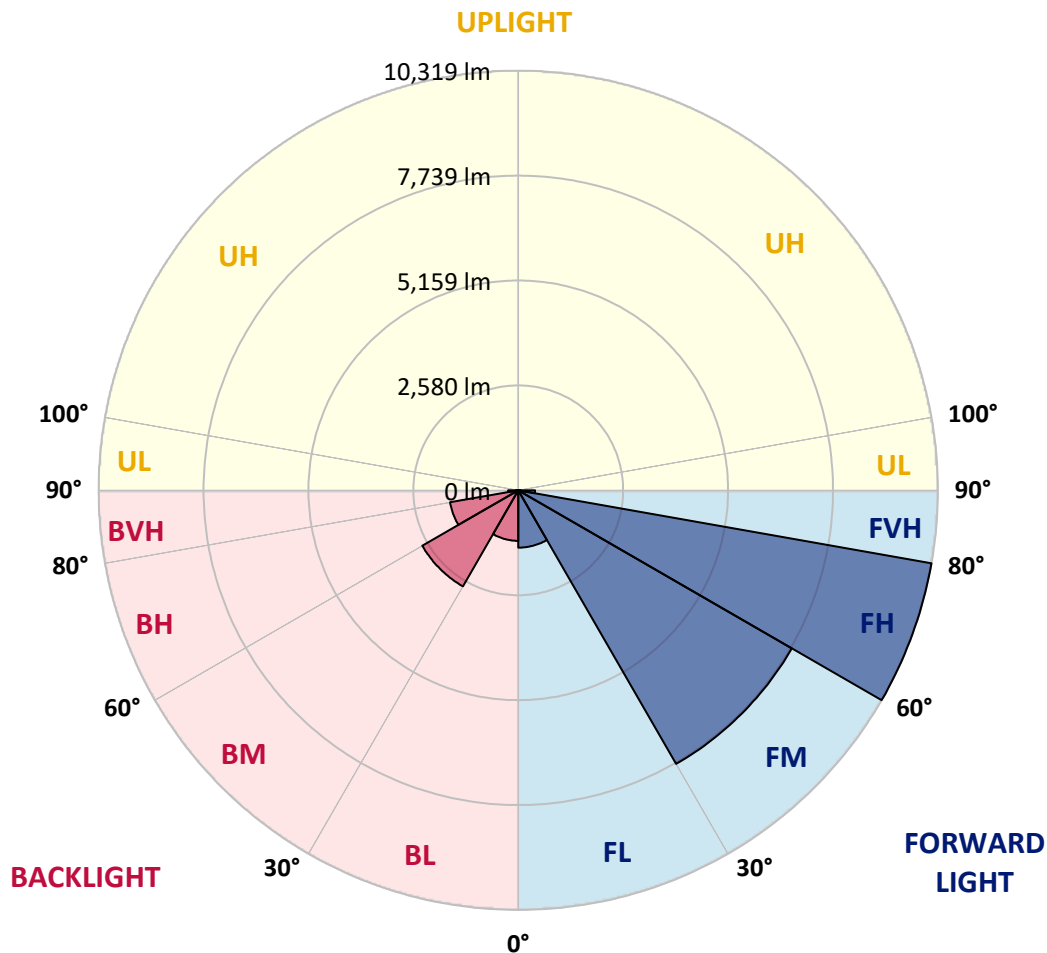
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1409.4	5.5			
FM (30°-60°)	7768.5	30.1			
FH (60°-80°)	10318.9	39.9			G4/12000
FVH (80°-90°)	413.0	1.6			G3/500
BL (0°-30°)	1243.0	4.8	B3/2500		
BM (30°-60°)	2725.2	10.6	B3/5000		
BH (60°-80°)	1702.0	6.6	B3/2500		G3/2500
BVH (80°-90°)	250.0	1.0			G3/500
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°	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6
2.5°	2763.3	2765.1	2768.6	2759.7	2735.0	2727.9	2725.3	2699.6	2682.8	2658.1	2636.9
5°	2984.3	2986.0	2980.7	2956.0	2901.2	2860.5	2857.0	2798.6	2745.6	2689.0	2646.6
7.5°	3215.0	3217.6	3200.8	3154.0	3077.1	3006.4	3002.0	2922.4	2842.0	2756.2	2692.6
10°	3419.2	3408.6	3381.2	3315.8	3224.7	3138.1	3134.5	3051.5	2958.6	2855.2	2770.4
12.5°	3555.3	3546.5	3511.1	3431.6	3331.7	3252.1	3245.0	3168.1	3078.0	2964.8	2863.2
15°	3630.5	3636.6	3588.9	3498.7	3401.5	3334.3	3328.1	3273.3	3192.9	3078.9	2962.2
17.5°	3640.2	3645.5	3599.5	3510.2	3430.7	3384.7	3382.1	3345.8	3287.5	3177.9	3055.9
20°	3583.6	3587.1	3549.1	3475.8	3423.6	3409.5	3408.6	3392.7	3349.4	3252.1	3133.7
22.5°	3501.4	3504.0	3476.6	3423.6	3405.9	3428.0	3434.2	3428.0	3397.1	3306.0	3194.7
25°	3481.1	3479.3	3451.0	3397.1	3412.1	3459.0	3466.9	3469.6	3448.4	3368.8	3272.4
27.5°	3579.2	3573.0	3519.1	3432.4	3442.2	3498.7	3509.4	3535.0	3521.7	3451.9	3360.8
30°	3862.9	3852.3	3741.8	3566.8	3519.1	3548.2	3561.5	3602.2	3604.8	3546.5	3478.4
32.5°	4342.0	4328.8	4130.8	3817.9	3649.0	3598.6	3611.0	3672.0	3704.7	3659.6	3586.3
35°	4947.6	4932.5	4672.7	4244.8	3866.5	3695.0	3703.8	3752.4	3817.9	3754.2	3657.0
37.5°	5578.7	5542.5	5292.3	4746.9	4212.1	3900.9	3900.9	3907.1	3938.1	3805.5	3740.1
40°	6206.3	6170.1	5943.8	5337.4	4659.4	4225.4	4205.0	4068.0	4043.3	3929.2	3907.1
42.5°	6789.8	6779.1	6645.7	6004.8	5184.5	4544.5	4516.2	4283.7	4289.0	4218.3	4219.2
45°	7410.3	7410.3	7301.6	6678.4	5796.2	5057.2	5028.9	4686.8	4739.8	4707.1	4785.8
47.5°	7916.8	7932.7	7917.7	7380.2	6507.8	5708.7	5657.4	5245.5	5394.0	5506.2	5735.2
50°	8433.9	8458.7	8461.3	8150.2	7367.9	6483.0	6424.7	5987.1	6318.6	6640.4	7090.3
52.5°	9184.4	9240.1	9018.2	8918.3	8421.6	7402.3	7344.9	6940.9	7494.3	7946.0	8721.2
55°	9880.1	9831.5	9673.3	9735.1	9549.5	8449.0	8405.6	8051.2	8804.3	9391.3	10398.1
57.5°	10256.7	10253.1	10412.3	10677.4	10765.8	9739.6	9703.3	9358.6	10281.4	10722.5	11972.5
60°	10698.7	10704.8	11099.1	11701.1	12065.3	11346.6	11330.7	11069.0	11716.1	11965.4	13207.4
62.5°	10760.5	10871.9	11550.8	12586.8	13281.6	13224.2	13259.5	12609.8	12999.6	12957.2	14129.3
65°	10048.9	10195.7	11424.4	12854.7	14490.9	15277.6	15310.3	14159.4	14011.8	13804.9	14459.1
67.5°	8590.4	8807.9	10142.6	12272.1	14889.5	16795.4	16841.3	15360.7	14851.5	14092.2	13665.3
70°	6251.4	6492.7	7836.4	10481.2	14178.8	17280.7	17332.8	15892.0	14883.4	13274.5	11665.7
72.5°	3776.3	3965.5	5073.1	7716.2	11967.2	16396.7	16489.5	15218.4	13588.3	11244.1	8614.3
75°	1658.3	1782.1	2453.0	4446.4	8567.4	13566.3	13682.0	13026.1	11040.8	8171.4	5091.7
77.5°	706.3	741.6	1006.0	1931.5	4843.3	9270.2	9429.3	9517.7	7490.7	4446.4	2151.6
80°	440.2	454.4	569.3	874.2	2266.5	5206.6	5378.1	5599.9	3719.7	1634.5	751.4
82.5°	267.8	283.8	378.3	528.6	1180.1	2360.2	2442.4	2598.9	1443.5	706.3	388.9
85°	160.9	172.4	231.6	334.1	671.8	928.2	927.3	1025.4	679.8	454.4	205.1
87.5°	76.9	85.7	123.8	173.3	338.6	348.3	326.2	369.5	412.8	297.9	103.4
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°	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6	2631.6
2.5°	2629.8	2626.3	2614.8	2605.9	2604.2	2598.9	2594.4	2597.1	2600.6	2601.5	2601.5
5°	2628.9	2619.2	2604.2	2598.0	2605.9	2616.5	2629.8	2647.5	2658.1	2666.0	2671.3
7.5°	2671.3	2652.8	2636.0	2632.5	2648.4	2676.7	2706.7	2743.8	2769.5	2787.1	2790.7
10°	2742.1	2719.1	2702.3	2705.8	2734.1	2774.8	2817.2	2864.9	2903.8	2927.7	2929.5
12.5°	2823.4	2801.3	2785.4	2800.4	2847.3	2896.8	2941.0	2982.5	3017.9	3041.7	3041.7
15°	2917.1	2901.2	2882.6	2917.1	2980.7	3024.9	3043.5	3063.8	3083.3	3101.0	3097.4
17.5°	3007.3	2992.2	2982.5	3023.2	3089.5	3109.8	3097.4	3082.4	3082.4	3092.1	3093.9
20°	3085.0	3071.8	3078.0	3117.8	3152.2	3131.0	3085.0	3037.3	3017.9	3023.2	3028.5
22.5°	3153.1	3146.9	3165.5	3184.1	3159.3	3085.0	3000.2	2935.7	2911.8	2910.0	2911.8
25°	3232.7	3231.8	3254.8	3221.2	3111.6	2974.6	2860.5	2797.8	2784.5	2795.1	2812.8
27.5°	3331.7	3341.4	3352.9	3230.0	3014.3	2807.5	2691.7	2648.4	2661.6	2687.3	2704.1
30°	3458.1	3484.6	3459.8	3207.9	2874.7	2616.5	2506.0	2493.7	2529.9	2566.2	2583.8
32.5°	3581.0	3622.5	3562.4	3150.5	2694.3	2414.1	2328.4	2324.8	2369.0	2404.4	2429.1
35°	3680.0	3762.2	3639.3	3036.4	2485.7	2227.6	2164.8	2141.0	2156.9	2198.4	2226.7
37.5°	3809.0	3946.0	3692.3	2862.3	2259.4	2073.8	2000.4	1945.6	1931.5	1948.3	1962.4
40°	4045.0	4226.2	3717.1	2619.2	2038.4	1920.0	1845.7	1765.3	1709.6	1668.9	1669.8
42.5°	4430.4	4591.3	3701.2	2324.0	1834.2	1769.7	1685.7	1592.9	1502.7	1410.8	1403.7
45°	5056.3	5134.1	3653.4	2011.0	1654.8	1612.4	1533.7	1440.9	1320.6	1216.3	1206.6
47.5°	6057.8	5885.5	3579.2	1737.9	1496.6	1478.9	1406.4	1299.4	1172.1	1088.2	1081.1
50°	7423.6	6970.1	3542.9	1520.4	1356.9	1362.2	1303.0	1189.8	1069.6	1007.7	1000.7
52.5°	9057.1	8233.3	3612.8	1352.5	1244.6	1263.2	1219.0	1112.9	1012.1	963.5	956.5
55°	10751.7	9541.5	3687.9	1230.5	1138.6	1174.8	1159.8	1072.3	981.2	936.1	929.9
57.5°	12202.3	10518.3	3537.6	1131.5	1044.0	1100.5	1113.8	1046.6	965.3	924.6	917.6
60°	13115.4	10911.7	3143.4	1038.7	968.8	1041.3	1087.3	1039.5	971.5	967.9	962.6
62.5°	13548.6	10877.2	2552.0	965.3	922.0	1015.7	1106.7	1079.3	1042.2	1074.0	1076.7
65°	13354.1	10357.4	1900.5	916.7	888.4	1025.4	1165.1	1154.5	1062.5	1094.4	1098.8
67.5°	12074.1	9117.2	1407.3	874.2	851.3	1052.8	1271.1	1179.2	1022.8	1045.7	1031.6
70°	9759.0	7228.2	1085.5	826.5	813.3	1049.3	1318.9	1164.2	979.4	984.7	946.7
72.5°	6729.6	4929.0	883.1	782.3	758.4	956.5	1285.3	1127.1	943.2	902.5	852.1
75°	3659.6	2645.7	750.5	736.3	662.1	839.8	1223.4	1100.5	910.5	856.6	828.3
77.5°	1440.0	1097.9	651.5	673.6	579.0	741.6	1154.5	1050.2	865.4	794.7	780.5
80°	587.8	560.4	540.1	582.5	497.7	648.8	1071.4	990.9	811.5	737.2	708.9
82.5°	333.3	348.3	419.9	459.7	404.0	597.6	1031.6	943.2	747.0	660.3	626.7
85°	170.6	204.2	292.6	329.7	297.0	508.3	950.3	825.6	599.3	505.6	508.3
87.5°	82.2	114.0	184.7	206.8	192.7	367.7	709.8	598.4	466.7	369.5	358.0
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)