

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: P318669

Luminaire Tested: **GAN-SA5A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21338 lumens
Efficiency: N/A
Efficacy: 131.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

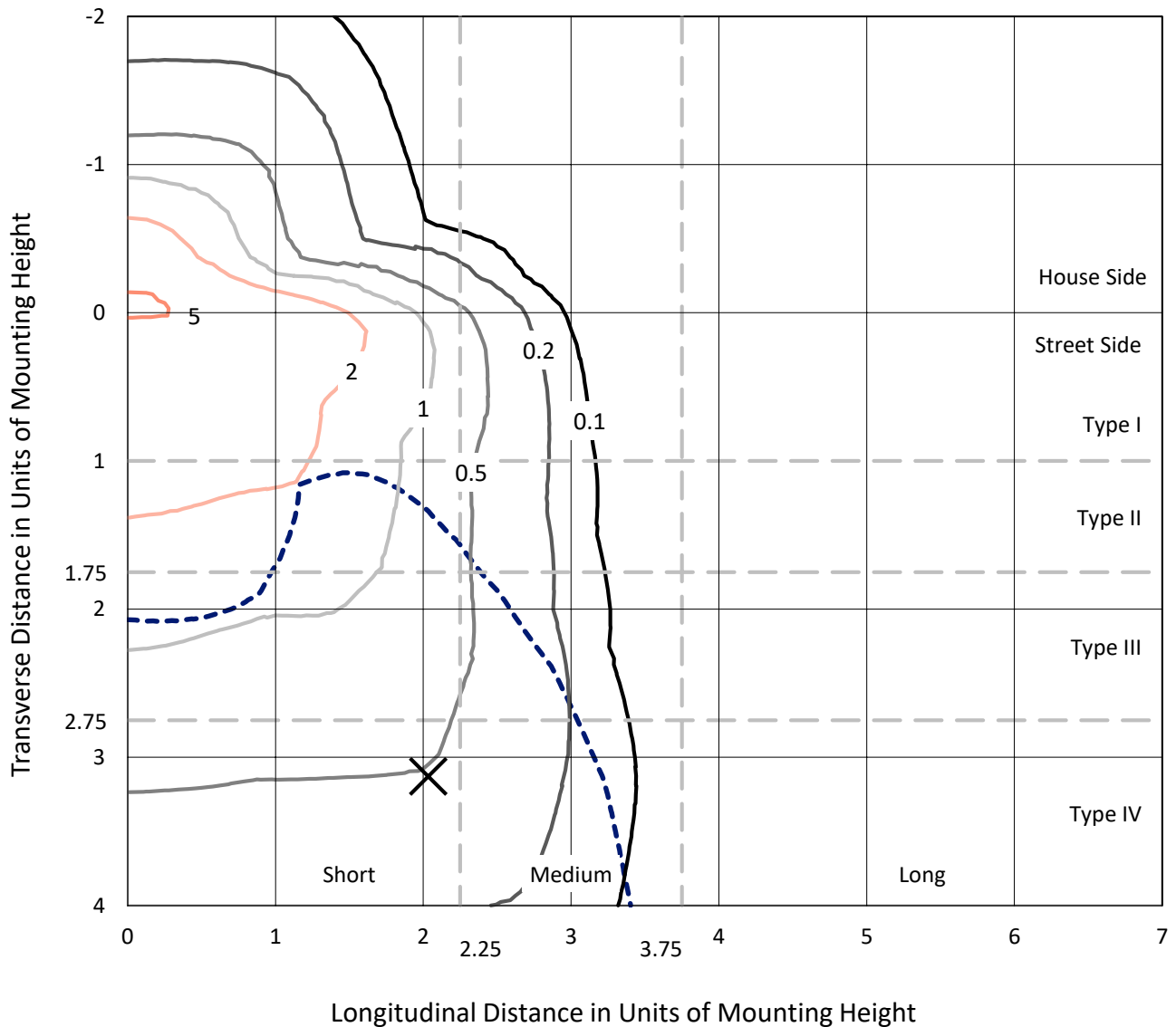
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

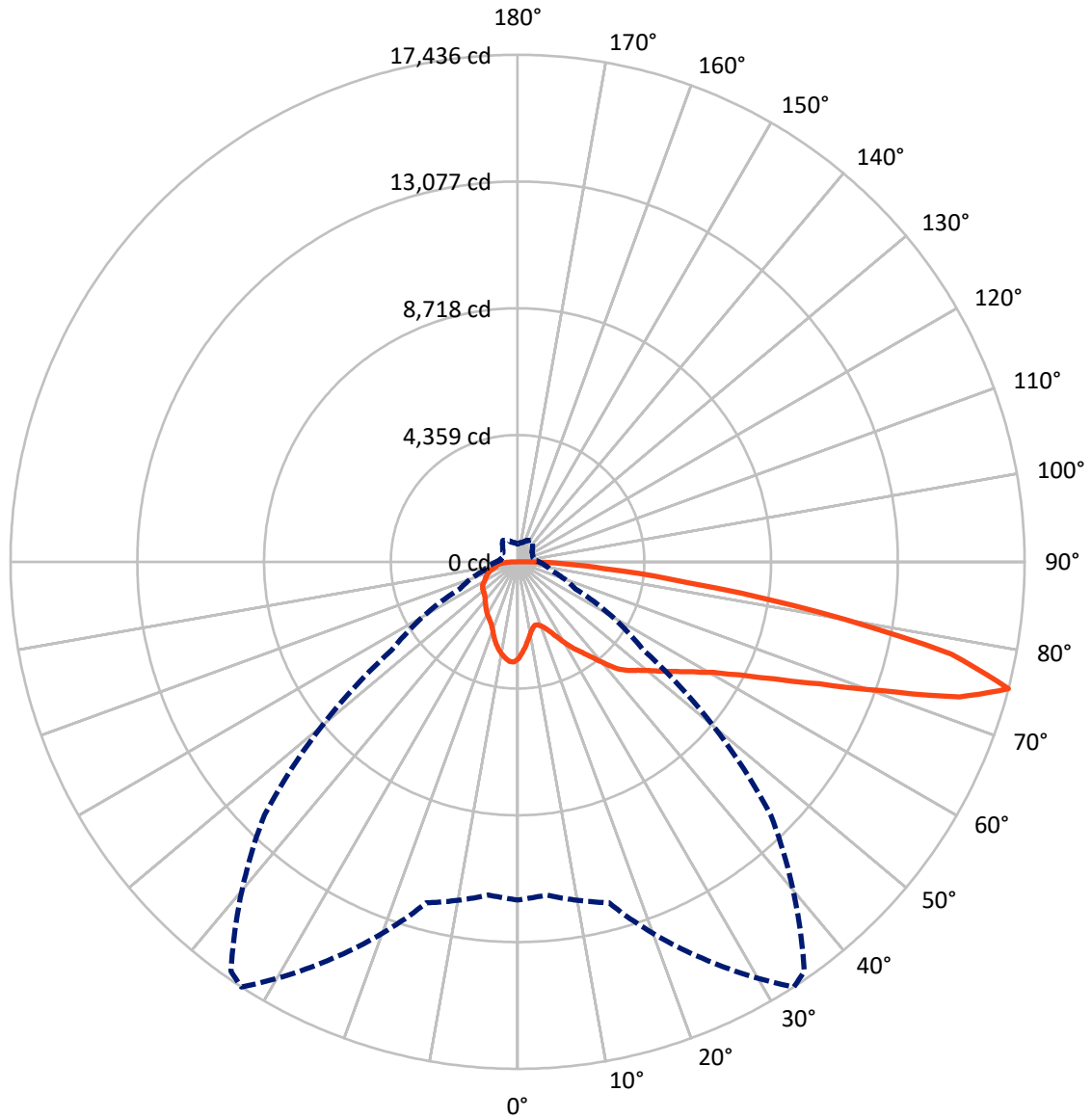
✕ Max cd
 - - - 1/2 Max cd



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 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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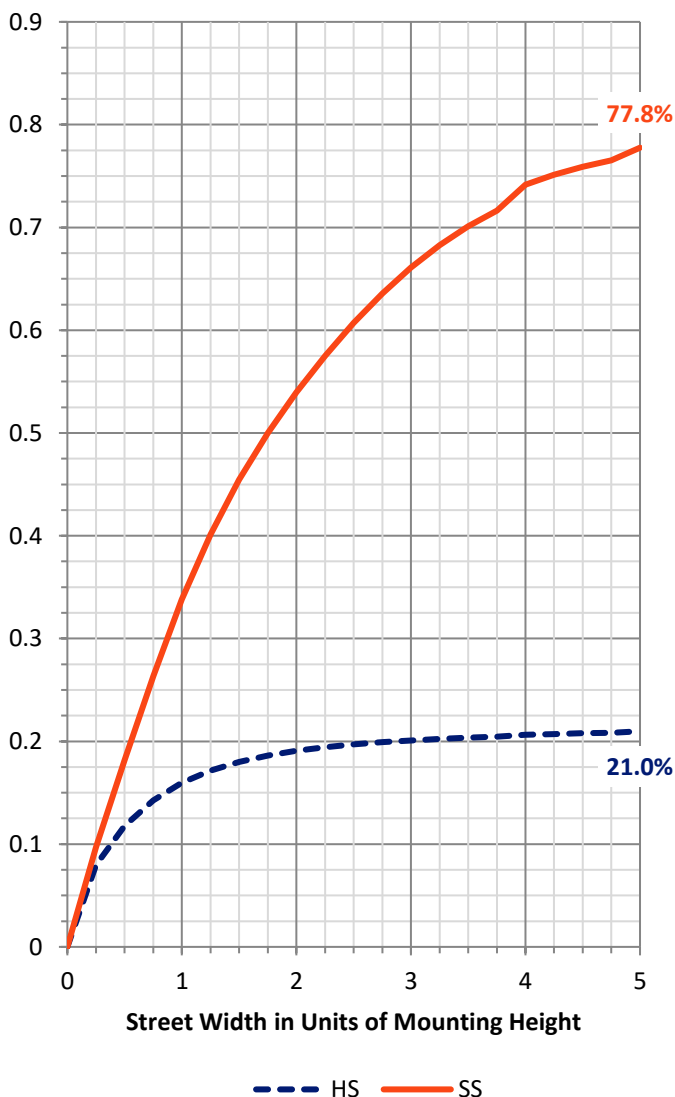
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4581.8	0.0	4581.8
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16756.2	0.0	16756.2
	% Fixture	78.5	0.0	78.5
Total	Lumens	21338.0	0.0	21338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.6	1.4
10°-20°	816.9	3.8
20°-30°	1334.2	6.3
30°-40°	1986.9	9.3
40°-50°	2849.8	13.4
50°-60°	3912.3	18.3
60°-70°	4898.1	23.0
70°-80°	4431.0	20.8
80°-90°	807.1	3.8
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°	21338.0	100.0
0°-180°	21338.0	100.0

Coefficient of Utilization

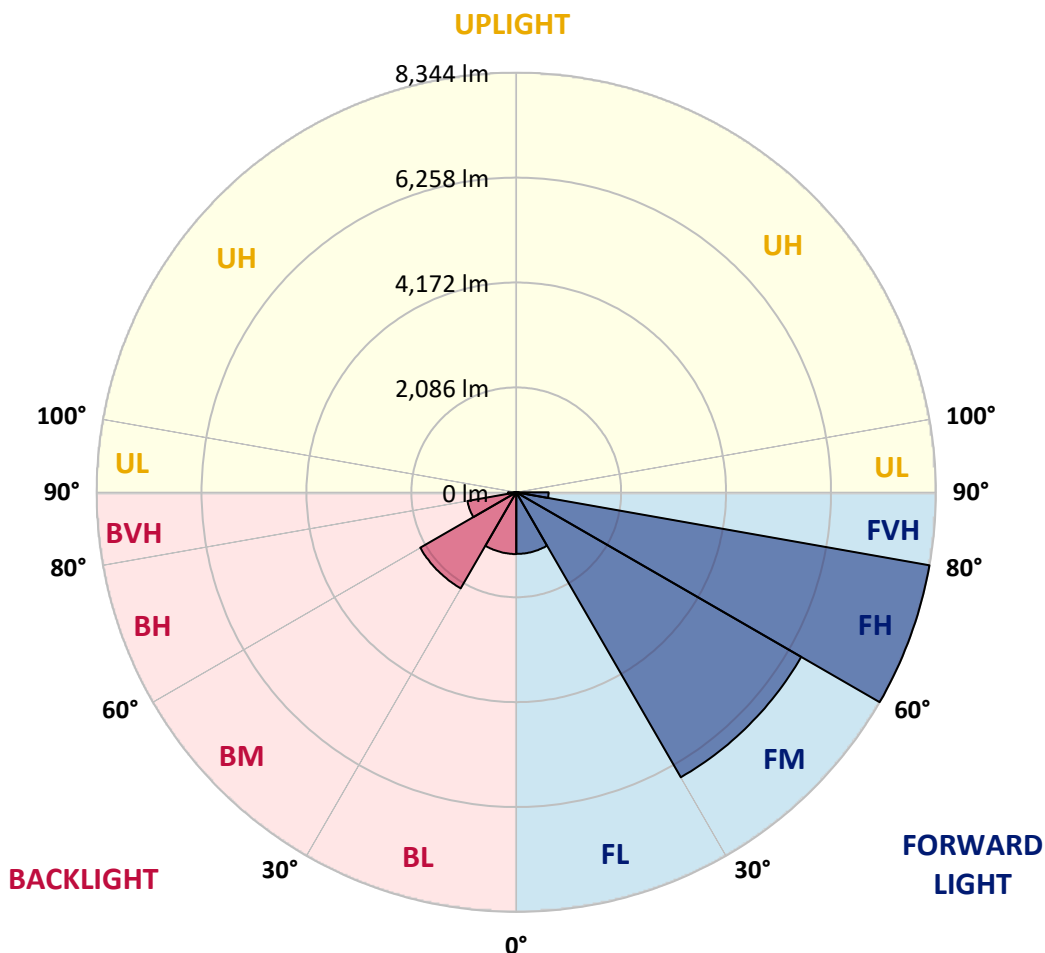


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1225.5	5.7			
FM (30°-60°)	6543.9	30.7			
FH (60°-80°)	8343.9	39.1			G4/12000
FVH (80°-90°)	642.8	3.0			G4/750
BL (0°-30°)	1227.2	5.8	B3/2500		
BM (30°-60°)	2205.1	10.3	B2/2500		
BH (60°-80°)	985.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	164.3	0.8			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°	33°	35°	45°	55°	65°	75°	85°
0°	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3097.2	3085.4	3107.5	3110.4	3129.6	3137.0	3163.5	3204.8	3238.7	3277.8	3313.1
5°	2816.4	2808.2	2839.2	2861.3	2903.3	2921.0	2983.7	3071.4	3149.5	3238.0	3318.3
7.5°	2549.5	2545.1	2579.8	2629.9	2678.5	2702.8	2811.2	2938.7	3069.2	3212.2	3335.2
10°	2324.7	2323.2	2356.4	2405.8	2477.3	2504.6	2644.6	2812.7	2995.5	3192.3	3364.0
12.5°	2198.7	2203.8	2219.3	2260.6	2326.9	2354.2	2509.7	2707.3	2933.5	3185.6	3406.0
15°	2229.6	2237.7	2211.2	2209.7	2256.9	2278.3	2424.2	2632.1	2889.3	3196.7	3467.2
17.5°	2361.6	2363.1	2293.0	2248.8	2277.6	2288.6	2397.7	2589.3	2863.5	3221.7	3543.8
20°	2547.3	2543.6	2419.8	2346.1	2361.6	2364.5	2435.3	2590.1	2861.3	3265.2	3643.3
22.5°	2793.5	2766.2	2599.7	2499.4	2495.7	2491.3	2531.8	2644.6	2893.7	3336.0	3762.0
25°	3114.9	3089.1	2859.8	2722.7	2693.3	2682.2	2688.1	2761.1	2957.9	3411.9	3894.7
27.5°	3472.3	3427.4	3206.3	3012.4	2951.2	2935.8	2900.4	2925.4	3027.9	3484.9	4052.4
30°	3771.6	3747.3	3554.2	3324.2	3252.0	3229.8	3137.0	3109.7	3128.9	3584.4	4251.4
32.5°	3938.9	3922.7	3805.5	3619.8	3552.7	3521.7	3390.5	3336.0	3291.0	3741.4	4521.2
35°	4141.6	4131.3	4060.5	3925.6	3826.1	3793.7	3692.0	3635.2	3519.5	3957.3	4869.8
37.5°	4399.6	4388.5	4390.0	4280.9	4162.2	4132.0	4064.9	4005.2	3815.8	4241.1	5248.7
40°	4691.5	4670.1	4662.0	4656.8	4581.6	4564.7	4529.3	4448.2	4187.3	4580.2	5622.4
42.5°	5130.8	5054.8	4892.7	4953.9	5028.3	5019.5	5048.2	4931.7	4600.1	4981.1	5987.2
45°	5554.6	5430.0	5149.9	5163.2	5326.1	5375.5	5590.7	5508.1	5047.5	5420.4	6364.6
47.5°	5747.7	5653.3	5415.3	5416.0	5577.4	5679.9	6151.6	6092.6	5517.7	5919.4	6825.3
50°	5963.6	5869.3	5655.6	5735.9	5876.7	5985.8	6693.3	6663.1	5965.1	6465.6	7377.3
52.5°	6199.5	6039.6	5903.9	6047.7	6245.2	6372.0	7235.8	7153.3	6375.7	7015.4	8012.0
55°	6202.5	6159.0	6262.2	6367.6	6663.1	6818.6	7804.1	7585.9	6710.3	7555.7	8528.7
57.5°	6555.5	6484.8	6703.7	6752.3	7138.5	7314.0	8369.4	7962.6	7050.8	7970.0	8807.3
60°	7022.8	6962.4	7141.5	7269.7	7726.7	7961.1	8973.1	8349.5	7318.4	8282.5	8794.0
62.5°	7829.9	7761.4	7759.2	7939.0	8554.5	8827.2	9650.5	8729.1	7424.5	8344.4	8418.8
65°	9011.4	8902.4	8696.7	8782.2	9697.7	9969.6	10407.5	9004.1	7284.5	8012.7	7452.5
67.5°	10161.3	10157.6	9904.8	10080.2	11207.2	11425.3	11269.8	9031.3	6847.4	6857.7	5738.1
70°	11307.4	11322.2	11279.4	11889.7	13246.7	13473.7	12188.2	8665.0	5864.9	4952.4	3437.7
72.5°	12215.5	12211.8	12427.0	14000.7	15893.5	15842.6	12962.1	7555.0	4210.9	2673.4	1642.9
75°	11627.3	11499.1	12140.3	15045.8	17436.2	17187.8	12303.9	5270.1	2185.4	1216.9	884.5
77.5°	7583.7	7705.3	8646.6	12429.2	15251.5	14949.3	9026.9	2458.9	1029.7	798.2	641.3
80°	2746.3	2874.6	4048.7	7040.5	10507.7	10458.3	4445.3	1010.5	696.5	602.9	467.3
82.5°	944.9	992.1	1597.2	3126.7	5932.7	6153.8	1672.4	574.2	506.4	427.5	319.9
85°	370.7	424.6	730.4	1504.4	2992.5	3014.6	677.4	343.5	352.3	280.1	175.4
87.5°	140.8	171.0	349.4	698.7	1366.5	1255.2	242.5	163.6	200.5	166.6	83.3
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°	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2	3335.2
2.5°	3340.4	3355.9	3388.3	3410.4	3434.0	3440.7	3443.6	3449.5	3455.4	3453.2	3453.9
5°	3361.0	3391.3	3443.6	3465.7	3476.0	3464.2	3441.4	3423.0	3409.7	3402.3	3400.1
7.5°	3395.0	3437.7	3493.7	3490.0	3466.4	3414.1	3355.1	3310.9	3274.1	3260.8	3253.4
10°	3439.9	3490.0	3529.1	3487.1	3418.5	3327.9	3239.4	3170.9	3115.6	3094.2	3090.5
12.5°	3497.4	3548.3	3555.6	3466.4	3352.9	3229.1	3109.0	3018.3	2935.8	2909.2	2903.3
15°	3571.8	3619.8	3574.1	3430.3	3271.9	3105.3	2949.8	2826.7	2739.7	2707.3	2695.5
17.5°	3650.0	3695.7	3577.7	3370.6	3165.7	2958.6	2763.3	2637.2	2537.7	2500.1	2495.7
20°	3743.6	3764.2	3562.3	3285.1	3019.8	2768.4	2562.8	2444.1	2391.1	2364.5	2361.6
22.5°	3859.3	3837.2	3526.9	3169.4	2834.8	2548.8	2381.5	2326.2	2312.9	2307.0	2309.2
25°	3981.7	3913.9	3474.6	3018.3	2601.1	2329.1	2248.8	2264.3	2282.0	2279.8	2279.8
27.5°	4116.5	3992.0	3394.2	2817.8	2342.4	2149.3	2158.9	2215.6	2242.2	2241.4	2240.7
30°	4289.8	4080.4	3291.8	2576.8	2100.7	2022.5	2080.8	2150.0	2186.2	2184.7	2185.4
32.5°	4502.8	4177.7	3152.5	2307.8	1926.0	1928.9	1996.0	2064.5	2106.6	2102.9	2103.6
35°	4751.9	4286.8	2963.8	2042.4	1810.2	1854.5	1907.5	1955.5	1995.3	1990.1	1984.9
37.5°	5023.1	4393.7	2713.2	1805.1	1715.9	1785.2	1829.4	1837.5	1855.9	1842.7	1833.1
40°	5281.1	4475.5	2390.3	1610.5	1620.8	1726.2	1755.0	1722.5	1689.4	1684.9	1671.7
42.5°	5505.9	4502.8	2063.8	1455.0	1520.6	1664.3	1682.0	1614.2	1554.5	1526.5	1514.7
45°	5743.3	4512.4	1759.4	1324.5	1424.0	1609.0	1628.2	1537.5	1453.5	1393.1	1373.2
47.5°	6053.6	4581.6	1522.8	1228.0	1350.3	1572.2	1599.4	1476.4	1367.3	1281.0	1262.6
50°	6459.7	4718.7	1330.4	1154.3	1302.4	1547.9	1578.8	1416.7	1296.5	1192.6	1174.2
52.5°	6910.8	4844.8	1174.9	1094.6	1256.0	1505.1	1552.3	1373.9	1230.2	1110.8	1090.9
55°	7226.3	4748.2	1049.6	1032.6	1195.5	1443.9	1515.4	1337.8	1135.1	1031.2	1013.5
57.5°	7286.7	4418.0	954.5	968.5	1122.6	1367.3	1458.7	1257.4	1083.5	996.5	978.1
60°	7121.6	3958.1	883.7	909.5	1044.4	1270.7	1352.5	1200.7	1034.1	959.7	944.2
62.5°	6706.6	3487.1	831.4	856.5	971.5	1172.7	1286.2	1141.0	984.0	917.7	902.2
65°	5868.6	2927.6	781.3	809.3	903.6	1087.9	1226.5	1085.7	934.6	883.7	869.0
67.5°	4429.8	2192.8	734.1	759.2	843.2	1014.2	1161.6	1031.2	886.7	854.3	836.6
70°	2608.5	1373.2	680.3	706.9	779.8	937.6	1092.3	971.5	827.0	812.3	789.4
72.5°	1214.0	826.3	619.1	644.9	700.2	835.1	1003.2	893.3	756.2	723.8	692.8
75°	724.5	604.4	546.9	569.8	608.8	726.0	891.1	813.7	689.2	646.4	614.0
77.5°	541.7	462.1	467.3	491.6	523.3	635.4	789.4	751.1	637.6	604.4	582.3
80°	389.9	350.8	381.1	407.6	440.8	577.9	756.2	694.3	576.4	532.2	511.5
82.5°	260.2	252.1	286.7	314.0	346.4	505.6	710.5	608.1	492.4	436.3	390.6
85°	143.7	151.8	193.1	204.9	232.9	356.0	582.3	488.7	370.7	298.5	285.2
87.5°	59.7	70.0	103.9	100.2	123.8	212.3	383.3	294.8	235.9	176.2	137.1
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)