

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: P318678

Luminaire Tested: **GAN-SA4B-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318678
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-SA4B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 21120 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

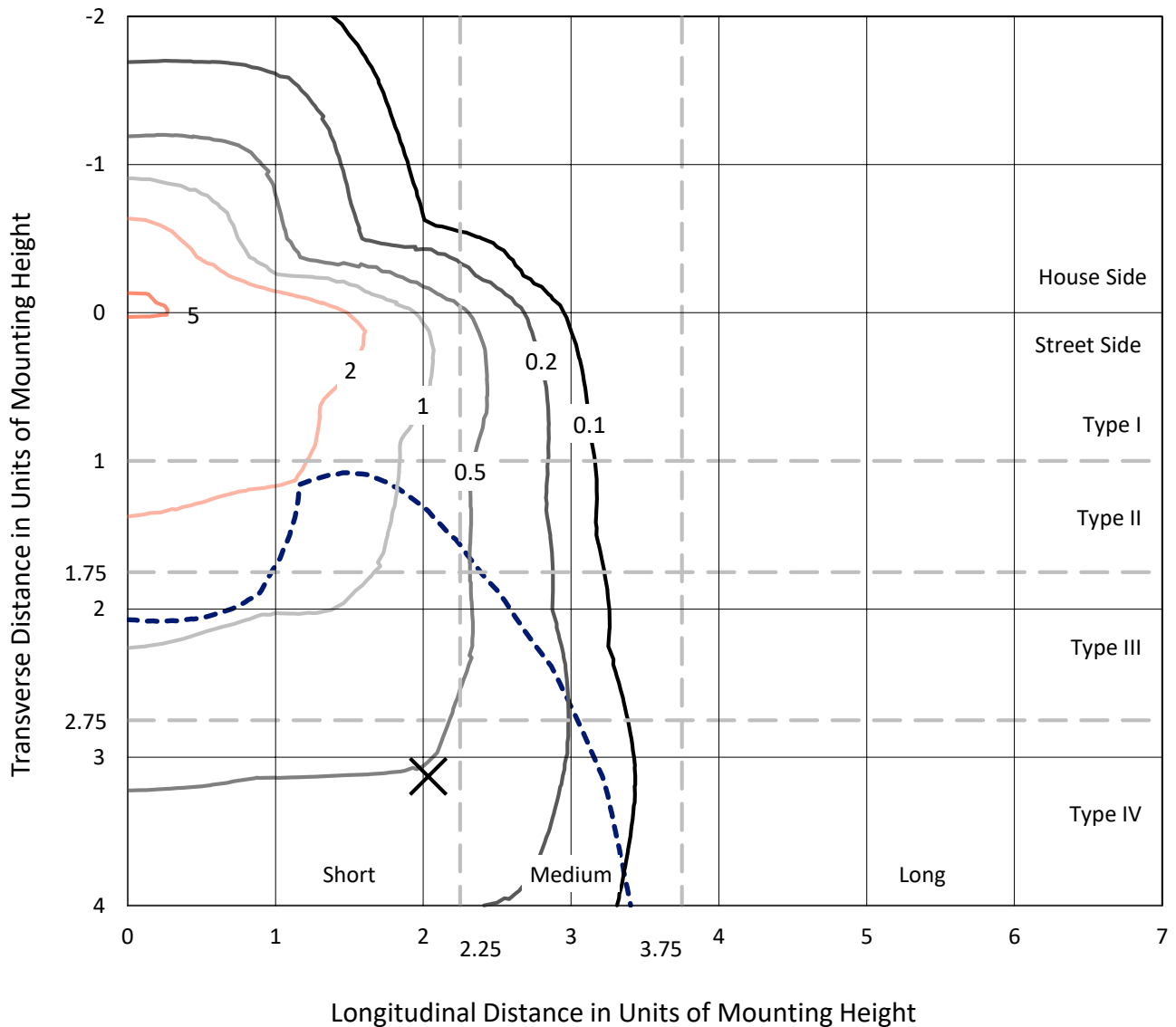
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

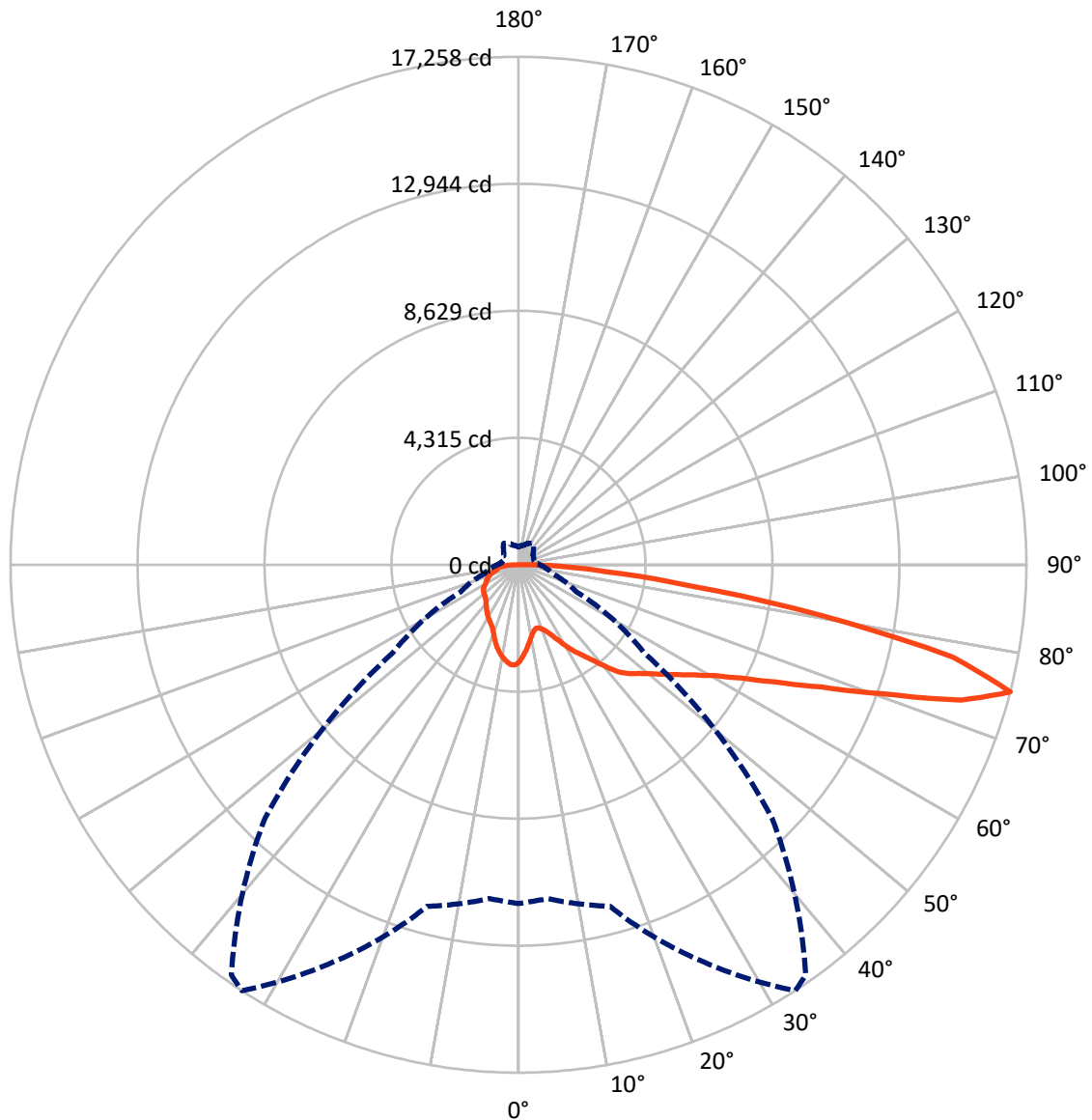
✕ Max cd
 - - - 1/2 Max cd



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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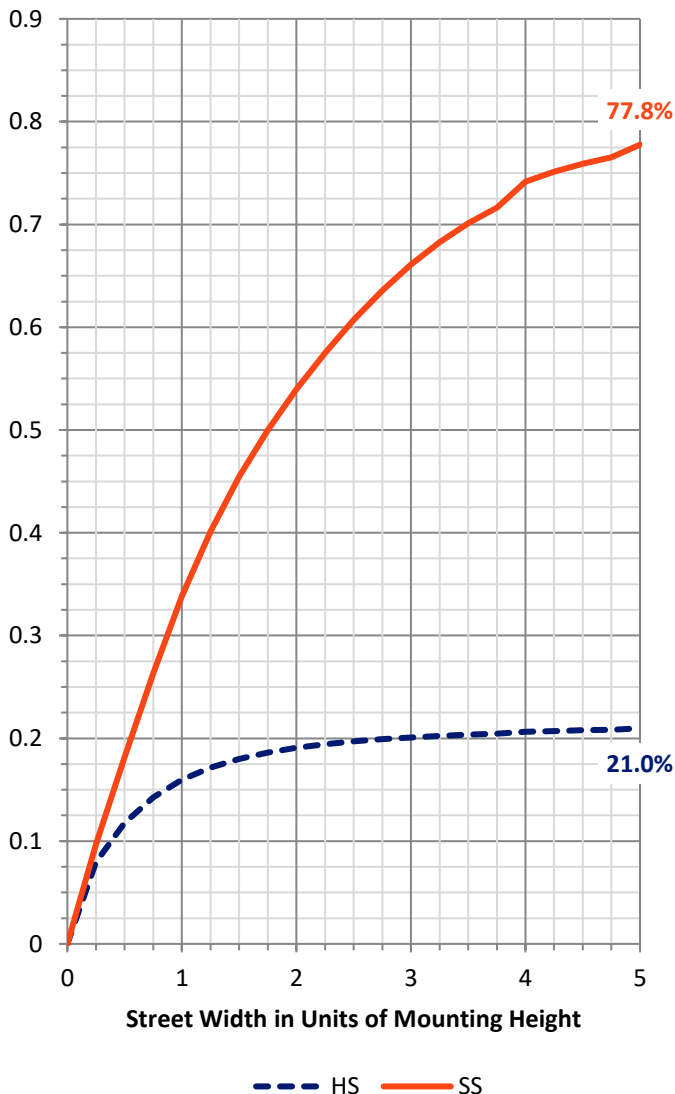
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4535.0	0.0	4535.0
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	16585.0	0.0	16585.0
	% Fixture	78.5	0.0	78.5
Total	Lumens	21120.0	0.0	21120.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.5	1.4
10°-20°	808.6	3.8
20°-30°	1320.6	6.3
30°-40°	1966.6	9.3
40°-50°	2820.7	13.4
50°-60°	3872.3	18.3
60°-70°	4848.0	23.0
70°-80°	4385.8	20.8
80°-90°	798.9	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°	21120.0	100.0
0°-180°	21120.0	100.0

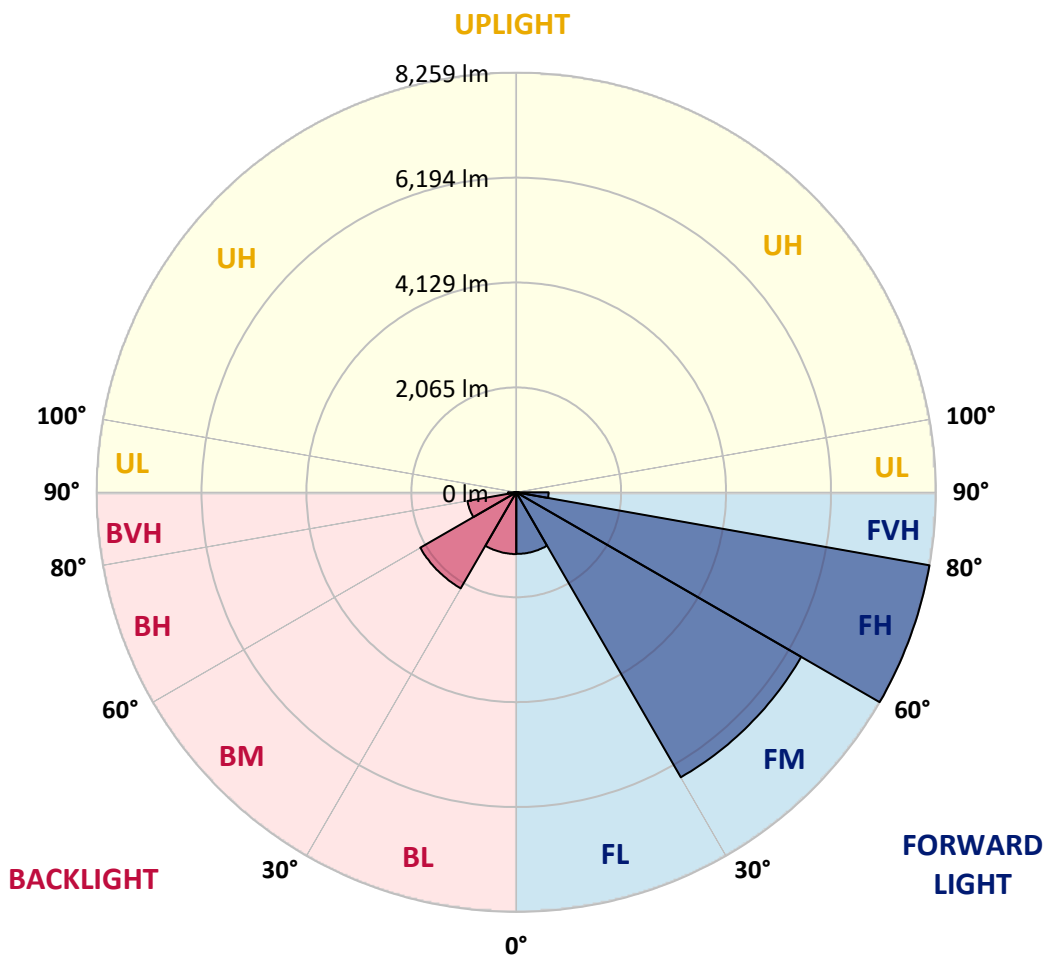


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1213.0	5.7			
FM (30°-60°)	6477.1	30.7			
FH (60°-80°)	8258.7	39.1			G4/12000
FVH (80°-90°)	636.2	3.0			G4/750
BL (0°-30°)	1214.7	5.8	B3/2500		
BM (30°-60°)	2182.6	10.3	B2/2500		
BH (60°-80°)	975.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	162.6	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°	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2
2.5°	3065.5	3053.9	3075.7	3078.7	3097.6	3104.9	3131.2	3172.0	3205.6	3244.3	3279.3
5°	2787.6	2779.6	2810.2	2832.1	2873.7	2891.2	2953.2	3040.0	3117.3	3204.9	3284.4
7.5°	2523.5	2519.1	2553.4	2603.0	2651.2	2675.2	2782.5	2908.7	3037.8	3179.3	3301.2
10°	2301.0	2299.5	2332.3	2381.2	2452.0	2479.0	2617.6	2783.9	2964.9	3159.6	3329.6
12.5°	2176.2	2181.3	2196.6	2237.5	2303.2	2330.2	2484.1	2679.6	2903.6	3153.1	3371.2
15°	2206.9	2214.9	2188.6	2187.2	2233.9	2255.0	2399.5	2605.2	2859.8	3164.0	3431.8
17.5°	2337.5	2338.9	2269.6	2225.8	2254.3	2265.2	2373.2	2562.9	2834.3	3188.8	3507.6
20°	2521.3	2517.6	2395.1	2322.1	2337.5	2340.4	2410.4	2563.6	2832.1	3231.9	3606.1
22.5°	2765.0	2738.0	2573.1	2473.9	2470.2	2465.8	2506.0	2617.6	2864.2	3301.9	3723.6
25°	3083.0	3057.5	2830.6	2694.9	2665.7	2654.8	2660.6	2732.9	2927.6	3377.0	3854.9
27.5°	3436.9	3392.4	3173.5	2981.6	2921.1	2905.8	2870.7	2895.5	2997.0	3449.3	4011.0
30°	3733.1	3709.0	3517.8	3290.2	3218.7	3196.9	3104.9	3077.9	3096.9	3547.8	4208.0
32.5°	3898.7	3882.6	3766.6	3582.8	3516.4	3485.7	3355.9	3301.9	3257.4	3703.2	4475.0
35°	4099.3	4089.1	4019.0	3885.5	3787.0	3754.9	3654.3	3598.1	3483.6	3916.9	4820.1
37.5°	4354.6	4343.7	4345.1	4237.2	4119.7	4089.8	4023.4	3964.3	3776.8	4197.8	5195.1
40°	4643.5	4622.4	4614.3	4609.2	4534.8	4518.0	4483.0	4402.8	4144.5	4533.4	5564.9
42.5°	5078.3	5003.2	4842.7	4903.2	4976.9	4968.2	4996.6	4881.4	4553.1	4930.2	5926.1
45°	5497.8	5374.5	5097.3	5110.4	5271.7	5320.5	5533.6	5451.9	4995.9	5365.0	6299.6
47.5°	5689.0	5595.6	5359.9	5360.7	5520.4	5621.8	6088.8	6030.4	5461.3	5858.9	6755.6
50°	5902.7	5809.3	5597.8	5677.3	5816.6	5924.6	6625.0	6595.1	5904.2	6399.5	7302.0
52.5°	6136.2	5977.9	5843.6	5985.9	6181.4	6306.9	7161.9	7080.2	6310.5	6943.8	7930.1
55°	6139.1	6096.0	6198.2	6302.5	6595.1	6749.0	7724.4	7508.4	6641.7	7478.5	8441.5
57.5°	6488.5	6418.5	6635.2	6683.3	7065.6	7239.2	8283.9	7881.2	6978.8	7888.5	8717.3
60°	6951.1	6891.2	7068.5	7195.5	7647.8	7879.8	8881.4	8264.2	7243.6	8197.9	8704.2
62.5°	7749.9	7682.1	7679.9	7857.9	8467.1	8737.0	9551.9	8640.0	7348.7	8259.1	8332.8
65°	8919.4	8811.4	8607.9	8692.5	9598.6	9867.8	10301.1	8912.1	7210.1	7930.8	7376.4
67.5°	10057.5	10053.8	9803.6	9977.2	11092.7	11308.6	11154.7	8939.1	6777.4	6787.7	5679.5
70°	11191.9	11206.5	11164.2	11768.2	13111.3	13336.0	12063.7	8576.5	5805.0	4901.8	3402.6
72.5°	12090.7	12087.0	12300.1	13857.6	15731.1	15680.8	12829.7	7477.8	4167.9	2646.0	1626.1
75°	11508.5	11381.6	12016.3	14892.1	17258.0	17012.2	12178.2	5216.2	2163.1	1204.5	875.4
77.5°	7506.3	7626.6	8558.2	12302.3	15095.7	14796.6	8934.7	2433.7	1019.2	790.1	634.7
80°	2718.3	2845.2	4007.4	6968.6	10400.3	10351.5	4399.9	1000.2	689.4	596.8	462.5
82.5°	935.3	982.0	1580.9	3094.7	5872.1	6090.9	1655.3	568.3	501.2	423.1	316.6
85°	367.0	420.2	723.0	1489.0	2961.9	2983.8	670.4	340.0	348.7	277.2	173.6
87.5°	139.3	169.3	345.8	691.6	1352.6	1242.4	240.0	162.0	198.4	164.9	82.4
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°	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2	3301.2
2.5°	3306.3	3321.6	3353.7	3375.6	3398.9	3405.5	3408.4	3414.3	3420.1	3417.9	3418.6
5°	3326.7	3356.6	3408.4	3430.3	3440.5	3428.8	3406.2	3388.0	3374.9	3367.6	3365.4
7.5°	3360.3	3402.6	3458.0	3454.4	3431.0	3379.2	3320.9	3277.1	3240.6	3227.5	3220.2
10°	3404.8	3454.4	3493.0	3451.5	3383.6	3293.9	3206.3	3138.5	3083.8	3062.6	3059.0
12.5°	3461.7	3512.0	3519.3	3431.0	3318.7	3196.1	3077.2	2987.5	2905.8	2879.5	2873.7
15°	3535.4	3582.8	3537.5	3395.3	3238.4	3073.6	2919.6	2797.8	2711.7	2679.6	2667.9
17.5°	3612.7	3657.9	3541.2	3336.2	3133.4	2928.4	2735.1	2610.3	2511.8	2474.6	2470.2
20°	3705.3	3725.8	3525.9	3251.6	2988.9	2740.2	2536.6	2419.2	2366.6	2340.4	2337.5
22.5°	3819.9	3798.0	3490.9	3137.0	2805.8	2522.8	2357.1	2302.4	2289.3	2283.5	2285.7
25°	3941.0	3873.9	3439.1	2987.5	2574.6	2305.4	2225.8	2241.2	2258.7	2256.5	2256.5
27.5°	4074.5	3951.2	3359.5	2789.0	2318.5	2127.3	2136.8	2193.0	2219.3	2218.5	2217.8
30°	4245.9	4038.7	3258.1	2550.5	2079.2	2001.9	2059.5	2128.1	2163.8	2162.4	2163.1
32.5°	4456.8	4135.0	3120.2	2284.2	1906.3	1909.2	1975.6	2043.4	2085.0	2081.4	2082.1
35°	4703.4	4243.0	2933.5	2021.6	1791.8	1835.5	1888.1	1935.5	1974.9	1969.8	1964.7
37.5°	4971.8	4348.8	2685.4	1786.6	1698.4	1766.9	1810.7	1818.7	1837.0	1823.9	1814.4
40°	5227.2	4429.8	2365.9	1594.0	1604.3	1708.6	1737.0	1704.9	1672.1	1667.7	1654.6
42.5°	5449.7	4456.8	2042.7	1440.1	1505.0	1647.3	1664.8	1597.7	1538.6	1510.9	1499.2
45°	5684.6	4466.3	1741.4	1311.0	1409.5	1592.6	1611.6	1521.8	1438.7	1378.8	1359.1
47.5°	5991.7	4534.8	1507.2	1215.4	1336.5	1556.1	1583.1	1461.3	1353.3	1267.9	1249.7
50°	6393.7	4670.5	1316.8	1142.5	1289.1	1532.0	1562.7	1402.2	1283.3	1180.4	1162.2
52.5°	6840.2	4795.3	1162.9	1083.4	1243.1	1489.7	1536.4	1359.9	1217.6	1099.4	1079.7
55°	7152.4	4699.7	1038.9	1022.1	1183.3	1429.2	1499.9	1324.1	1123.5	1020.6	1003.1
57.5°	7212.2	4372.9	944.8	958.6	1111.1	1353.3	1443.8	1244.6	1072.4	986.3	968.1
60°	7048.8	3917.6	874.7	900.3	1033.8	1257.7	1338.7	1188.4	1023.5	949.9	934.5
62.5°	6638.1	3451.5	822.9	847.7	961.5	1160.7	1273.0	1129.3	973.9	908.3	893.0
65°	5808.6	2897.7	773.3	801.0	894.4	1076.8	1214.0	1074.6	925.1	874.7	860.1
67.5°	4384.5	2170.4	726.6	751.4	834.6	1003.8	1149.8	1020.6	877.6	845.5	828.0
70°	2581.8	1359.1	673.4	699.6	771.9	928.0	1081.2	961.5	818.5	804.0	781.3
72.5°	1201.6	817.8	612.8	638.3	693.1	826.6	992.9	884.2	748.5	716.4	685.8
75°	717.1	598.2	541.3	563.9	602.6	718.6	882.0	805.4	682.1	639.8	607.7
77.5°	536.2	457.4	462.5	486.6	518.0	628.9	781.3	743.4	631.1	598.2	576.3
80°	385.9	347.3	377.2	403.4	436.3	572.0	748.5	687.2	570.5	526.7	506.3
82.5°	257.5	249.5	283.8	310.8	342.9	500.5	703.3	601.9	487.3	431.9	386.7
85°	142.3	150.3	191.1	202.8	230.5	352.4	576.3	483.7	367.0	295.5	282.3
87.5°	59.1	69.3	102.9	99.2	122.6	210.1	379.4	291.8	233.5	174.4	135.7
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)