

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: P319093

Luminaire Tested: **GAN-SA9C-750-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319093
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-SA9C-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62791 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

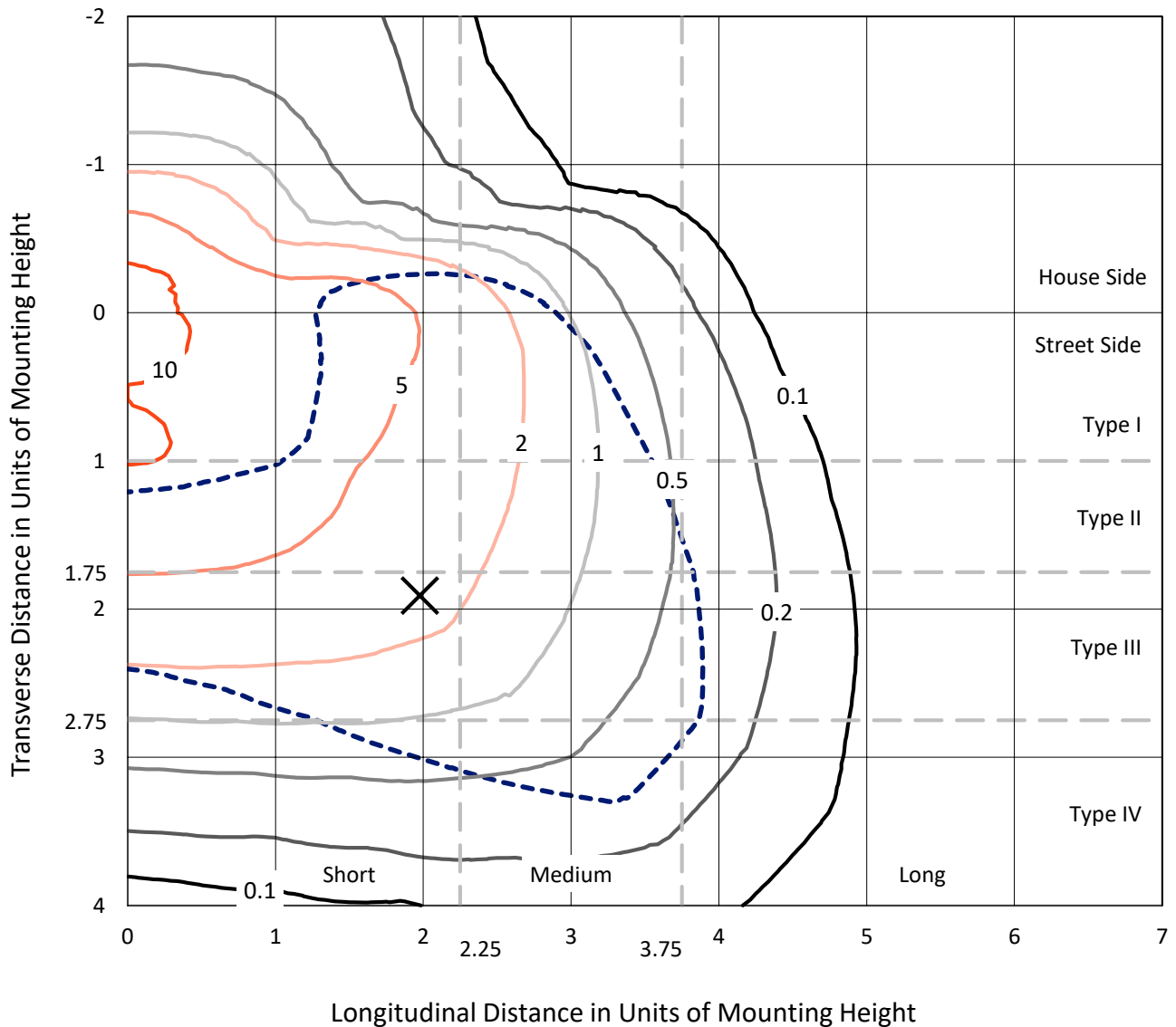
Input Watts (W): 501
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

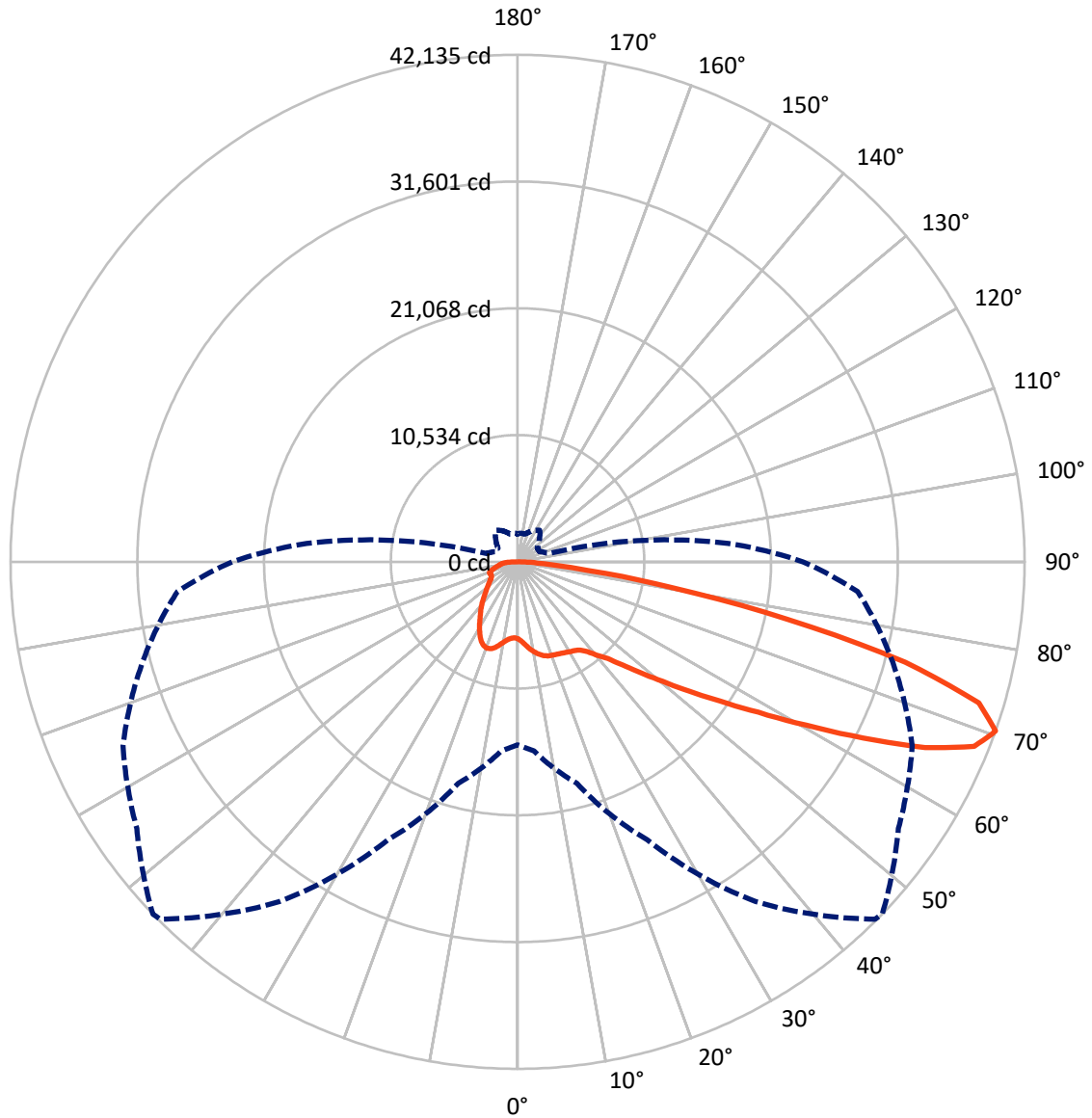
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 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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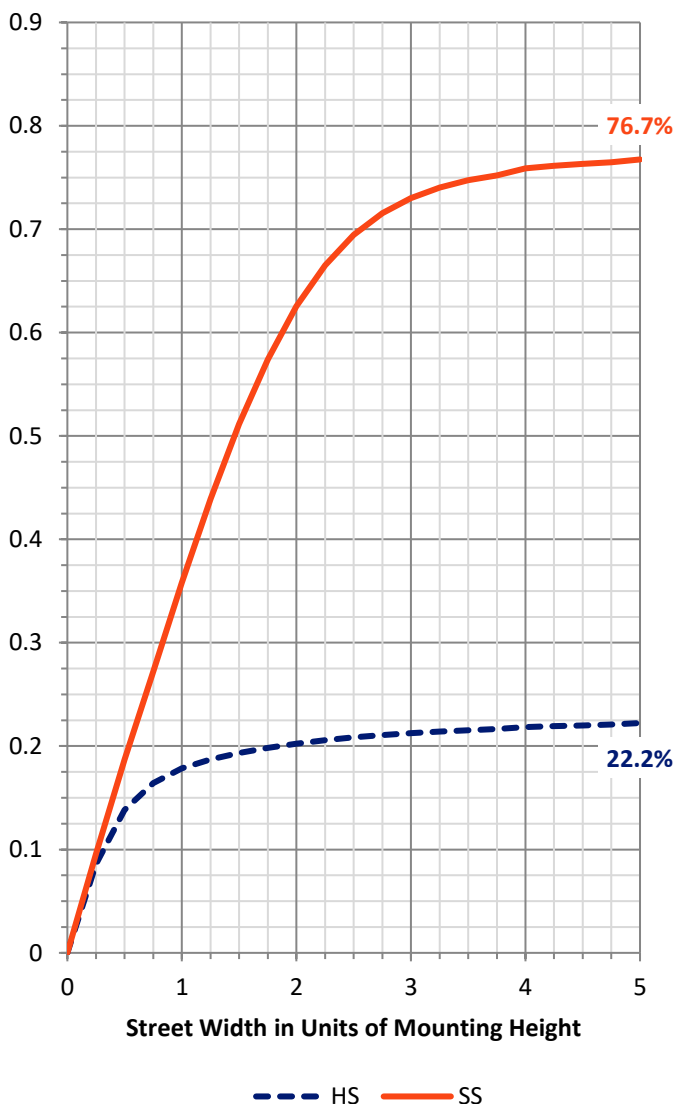
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14391.5	0.0	14391.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	48399.5	0.0	48399.5
	% Fixture	77.1	0.0	77.1
Total	Lumens	62791.0	0.0	62791.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	652.1	1.0
10°-20°	2172.8	3.5
20°-30°	3622.8	5.8
30°-40°	5141.0	8.2
40°-50°	7562.1	12.0
50°-60°	12806.4	20.4
60°-70°	18178.5	29.0
70°-80°	11043.6	17.6
80°-90°	1611.7	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°	62791.0	100.0
0°-180°	62791.0	100.0

Coefficient of Utilization

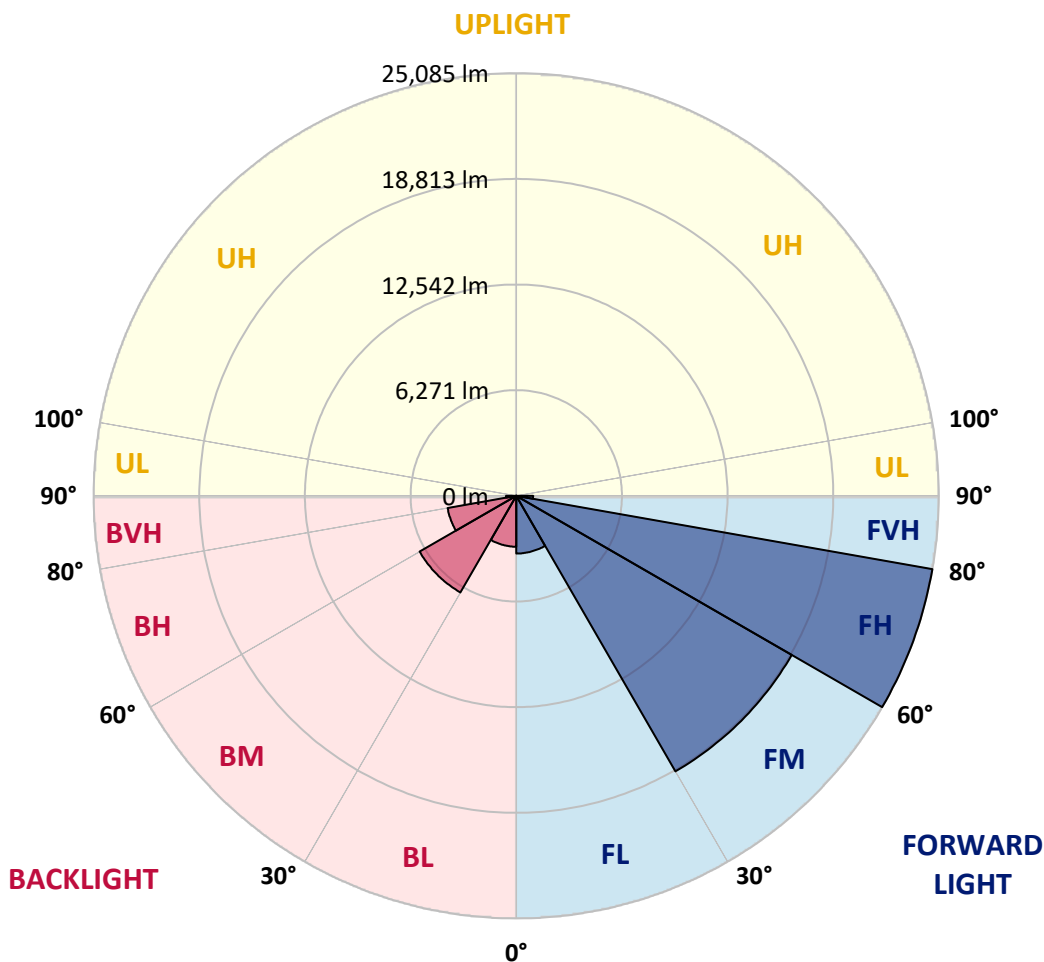


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3426.2	5.5			
FM (30°-60°)	18884.7	30.1			
FH (60°-80°)	25084.6	39.9			G5
FVH (80°-90°)	1003.9	1.6			G5
BL (0°-30°)	3021.5	4.8	B4/5000		
BM (30°-60°)	6624.8	10.6	B4/8500		
BH (60°-80°)	4137.4	6.6	B4/5000		G4/5000
BVH (80°-90°)	607.7	1.0			G4/750
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2
2.5°	6717.4	6721.7	6730.2	6708.8	6648.6	6631.4	6625.0	6562.6	6521.8	6461.6	6410.1
5°	7254.6	7258.9	7246.0	7185.8	7052.6	6953.7	6945.1	6803.3	6674.4	6536.9	6433.7
7.5°	7815.4	7821.9	7781.0	7667.2	7480.2	7308.3	7297.5	7104.2	6908.6	6700.2	6545.4
10°	8311.8	8286.0	8219.4	8060.4	7839.1	7628.5	7619.9	7417.9	7192.3	6940.8	6734.5
12.5°	8642.7	8621.3	8535.3	8341.9	8099.1	7905.7	7888.5	7701.5	7482.4	7207.3	6960.2
15°	8825.4	8840.4	8724.4	8505.2	8268.8	8105.5	8090.5	7957.3	7761.7	7484.5	7200.8
17.5°	8849.0	8861.9	8750.2	8533.1	8339.7	8228.0	8221.6	8133.5	7991.6	7725.2	7428.6
20°	8711.5	8720.1	8627.7	8449.3	8322.6	8288.2	8286.0	8247.3	8142.1	7905.7	7617.7
22.5°	8511.7	8518.1	8451.5	8322.6	8279.6	8333.3	8348.3	8333.3	8258.1	8036.8	7766.0
25°	8462.2	8457.9	8389.2	8258.1	8294.6	8408.5	8427.9	8434.3	8382.7	8189.3	7955.1
27.5°	8700.8	8685.7	8554.6	8344.0	8367.7	8505.2	8531.0	8593.3	8561.1	8391.3	8170.0
30°	9390.5	9364.8	9096.1	8670.7	8554.6	8625.5	8657.8	8756.6	8763.1	8621.3	8455.8
32.5°	10555.2	10523.0	10041.7	9281.0	8870.5	8748.0	8778.1	8926.4	9005.9	8896.3	8717.9
35°	12027.2	11990.7	11358.9	10318.9	9399.1	8982.3	9003.7	9121.9	9281.0	9126.2	8889.9
37.5°	13561.5	13473.4	12865.3	11539.4	10239.3	9482.9	9482.9	9498.0	9573.2	9250.9	9091.9
40°	15087.2	14999.1	14449.0	12974.9	11326.7	10271.6	10222.2	9889.1	9828.9	9551.7	9498.0
42.5°	16505.4	16479.7	16155.2	14597.2	12603.1	11047.3	10978.6	10413.4	10426.3	10254.4	10256.5
45°	18013.9	18013.9	17749.6	16234.7	14090.1	12293.7	12224.9	11393.3	11522.2	11442.7	11634.0
47.5°	19245.2	19283.9	19247.4	17940.9	15820.0	13877.4	13752.7	12751.4	13112.4	13385.3	13941.8
50°	20502.3	20562.5	20568.9	19812.5	17910.8	15759.8	15618.0	14554.3	15360.1	16142.3	17236.1
52.5°	22326.7	22462.1	21922.7	21679.9	20472.2	17994.6	17854.9	16872.9	18218.1	19316.2	21200.7
55°	24017.9	23899.7	23515.0	23665.5	23214.2	20538.9	20433.6	19571.9	21402.7	22829.6	25277.1
57.5°	24933.3	24924.7	25311.5	25956.2	26171.0	23676.2	23588.1	22750.0	24993.5	26065.7	29104.2
60°	26007.7	26022.8	26981.2	28444.5	29329.9	27582.8	27544.2	26908.1	28481.1	29087.0	32106.2
62.5°	26158.1	26428.9	28079.2	30597.7	32286.7	32147.0	32233.0	30653.6	31601.2	31498.1	34347.5
65°	24428.3	24785.0	27771.9	31248.8	35226.4	37138.8	37218.4	34420.5	34061.7	33558.8	35149.0
67.5°	20882.7	21411.3	24656.1	29832.7	36195.5	40828.5	40940.2	37340.8	36103.1	34257.2	33219.3
70°	15196.8	15783.4	19049.7	25479.1	34467.8	42008.2	42135.0	38632.3	36180.5	32269.5	28358.6
72.5°	9180.0	9639.8	12332.3	18757.5	29091.3	39859.3	40084.9	36994.9	33032.4	27333.6	20940.7
75°	4031.3	4332.1	5963.1	10808.8	20826.8	32978.6	33260.1	31665.7	26839.3	19864.1	12377.5
77.5°	1716.9	1802.9	2445.4	4695.3	11773.6	22535.2	22922.0	23136.8	18209.5	10808.8	5230.3
80°	1070.1	1104.5	1383.9	2125.2	5509.7	12656.8	13073.7	13613.1	9042.4	3973.3	1826.5
82.5°	651.1	689.8	919.7	1285.0	2868.7	5737.5	5937.3	6317.7	3509.1	1716.9	945.5
85°	391.1	419.0	563.0	812.3	1633.1	2256.3	2254.2	2492.7	1652.5	1104.5	498.5
87.5°	187.0	208.4	300.8	421.2	823.0	846.7	792.9	898.2	1003.5	724.2	251.4
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°	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2	6397.2
2.5°	6392.9	6384.3	6356.3	6334.9	6330.6	6317.7	6306.9	6313.4	6322.0	6324.1	6324.1
5°	6390.7	6367.1	6330.6	6315.5	6334.9	6360.6	6392.9	6435.9	6461.6	6481.0	6493.9
7.5°	6493.9	6448.7	6407.9	6399.3	6438.0	6506.8	6579.8	6670.1	6732.4	6775.4	6784.0
10°	6665.8	6609.9	6569.1	6577.7	6646.4	6745.3	6848.4	6964.5	7059.0	7117.0	7121.3
12.5°	6863.5	6809.8	6771.1	6807.6	6921.5	7041.8	7149.3	7250.3	7336.2	7394.2	7394.2
15°	7091.3	7052.6	7007.5	7091.3	7246.0	7353.4	7398.5	7448.0	7495.2	7538.2	7529.6
17.5°	7310.4	7273.9	7250.3	7349.1	7510.3	7559.7	7529.6	7493.1	7493.1	7516.7	7521.0
20°	7499.5	7467.3	7482.4	7579.1	7662.9	7611.3	7499.5	7383.5	7336.2	7349.1	7362.0
22.5°	7665.0	7650.0	7695.1	7740.2	7680.0	7499.5	7293.3	7136.4	7078.4	7074.1	7078.4
25°	7858.4	7856.3	7912.1	7830.5	7564.0	7230.9	6953.7	6801.2	6768.9	6794.7	6837.7
27.5°	8099.1	8122.7	8150.6	7852.0	7327.6	6824.8	6543.3	6438.0	6470.2	6532.6	6573.4
30°	8406.4	8470.8	8410.7	7798.2	6988.1	6360.6	6092.0	6062.0	6150.1	6238.2	6281.1
32.5°	8705.1	8806.1	8659.9	7658.6	6549.7	5868.6	5660.1	5651.5	5759.0	5844.9	5905.1
35°	8945.7	9145.6	8846.9	7381.4	6042.6	5415.1	5262.6	5204.6	5243.2	5344.2	5413.0
37.5°	9259.5	9592.5	8975.8	6958.0	5492.5	5041.2	4862.9	4729.7	4695.3	4736.1	4770.5
40°	9833.2	10273.7	9036.0	6367.1	4955.3	4667.3	4486.8	4291.3	4155.9	4057.1	4059.2
42.5°	10770.1	11161.2	8997.3	5649.4	4458.9	4302.0	4097.9	3872.3	3653.1	3429.6	3412.4
45°	12291.5	12480.6	8881.3	4888.7	4022.7	3919.5	3728.3	3502.7	3210.4	2956.8	2933.2
47.5°	14726.2	14307.1	8700.8	4224.7	3638.0	3595.1	3418.8	3158.8	2849.4	2645.3	2628.1
50°	18046.2	16943.8	8612.7	3696.0	3298.5	3311.4	3167.4	2892.4	2600.1	2449.7	2432.5
52.5°	22017.3	20014.5	8782.4	3287.8	3025.6	3070.7	2963.3	2705.4	2460.5	2342.3	2325.1
55°	26136.7	23194.9	8965.1	2991.2	2767.7	2855.8	2819.3	2606.6	2385.2	2275.6	2260.6
57.5°	29662.9	25569.4	8599.8	2750.5	2537.8	2675.3	2707.6	2544.3	2346.6	2247.7	2230.5
60°	31882.7	26525.6	7641.4	2524.9	2355.2	2531.4	2643.1	2527.1	2361.6	2353.0	2340.1
62.5°	32935.7	26441.8	6203.8	2346.6	2241.3	2469.0	2690.4	2623.8	2533.5	2610.9	2617.3
65°	32462.9	25178.3	4620.1	2228.4	2159.6	2492.7	2832.2	2806.4	2582.9	2660.3	2671.0
67.5°	29351.4	22163.4	3421.0	2125.2	2069.4	2559.3	3090.1	2866.6	2486.2	2542.1	2507.7
70°	23723.5	17571.3	2638.8	2009.2	1977.0	2550.7	3206.1	2830.1	2380.9	2393.8	2301.4
72.5°	16359.3	11982.1	2146.7	1901.7	1843.7	2325.1	3124.5	2739.8	2292.8	2194.0	2071.5
75°	8896.3	6431.6	1824.4	1790.0	1609.5	2041.4	2974.0	2675.3	2213.3	2082.3	2013.5
77.5°	3500.5	2668.9	1583.7	1637.4	1407.5	1802.9	2806.4	2552.9	2103.7	1931.8	1897.4
80°	1429.0	1362.4	1313.0	1416.1	1209.8	1577.3	2604.4	2408.9	1972.7	1792.2	1723.4
82.5°	810.1	846.7	1020.7	1117.4	982.0	1452.6	2507.7	2292.8	1815.8	1605.2	1523.5
85°	414.7	496.4	711.3	801.5	722.0	1235.6	2310.0	2007.0	1456.9	1229.2	1235.6
87.5°	199.8	277.2	449.1	502.8	468.5	893.9	1725.5	1454.8	1134.6	898.2	870.3
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)