

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: P318693

Luminaire Tested: **GAN-SA9C-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318693
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-SA9C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA 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: 57931 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

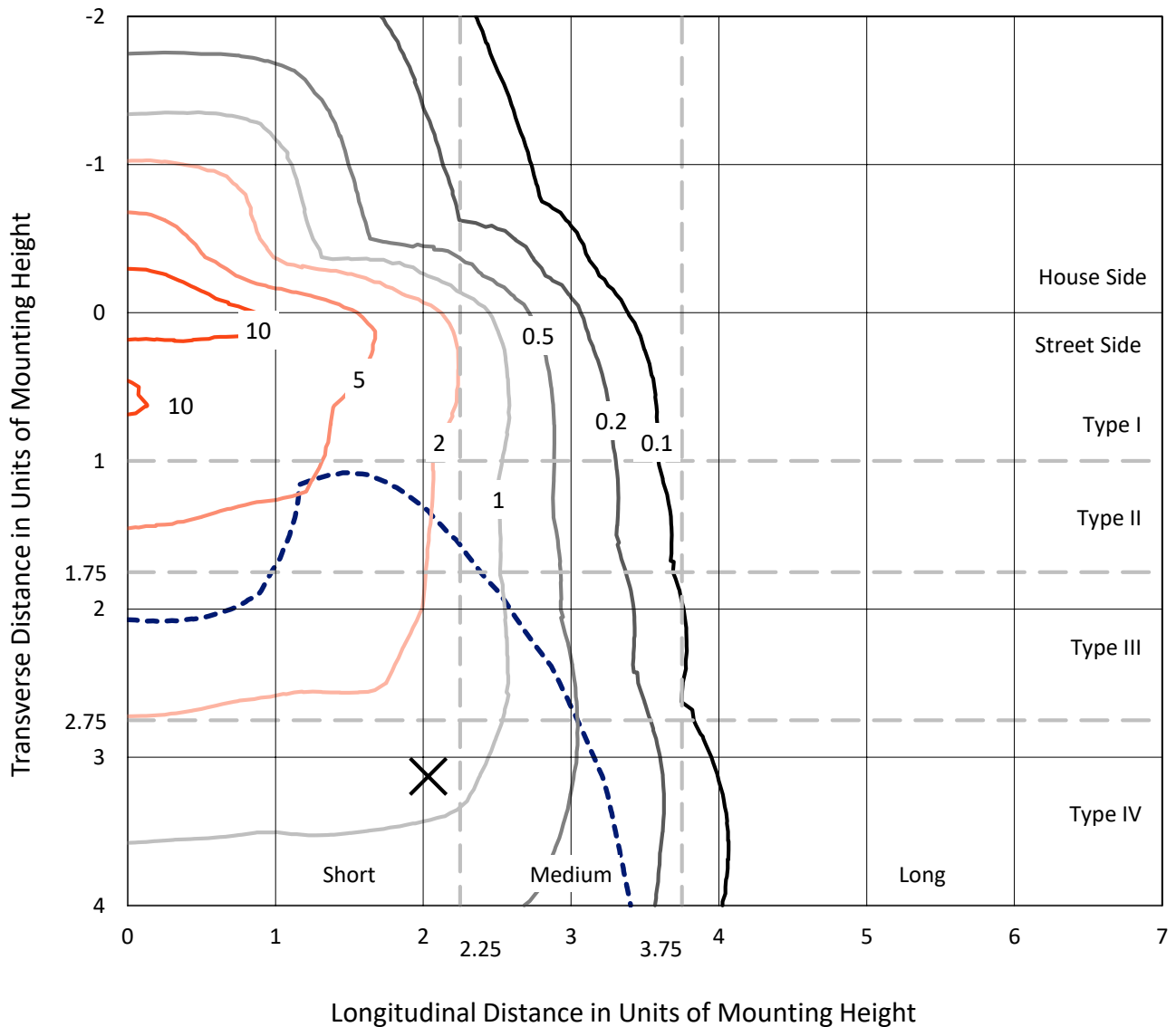
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

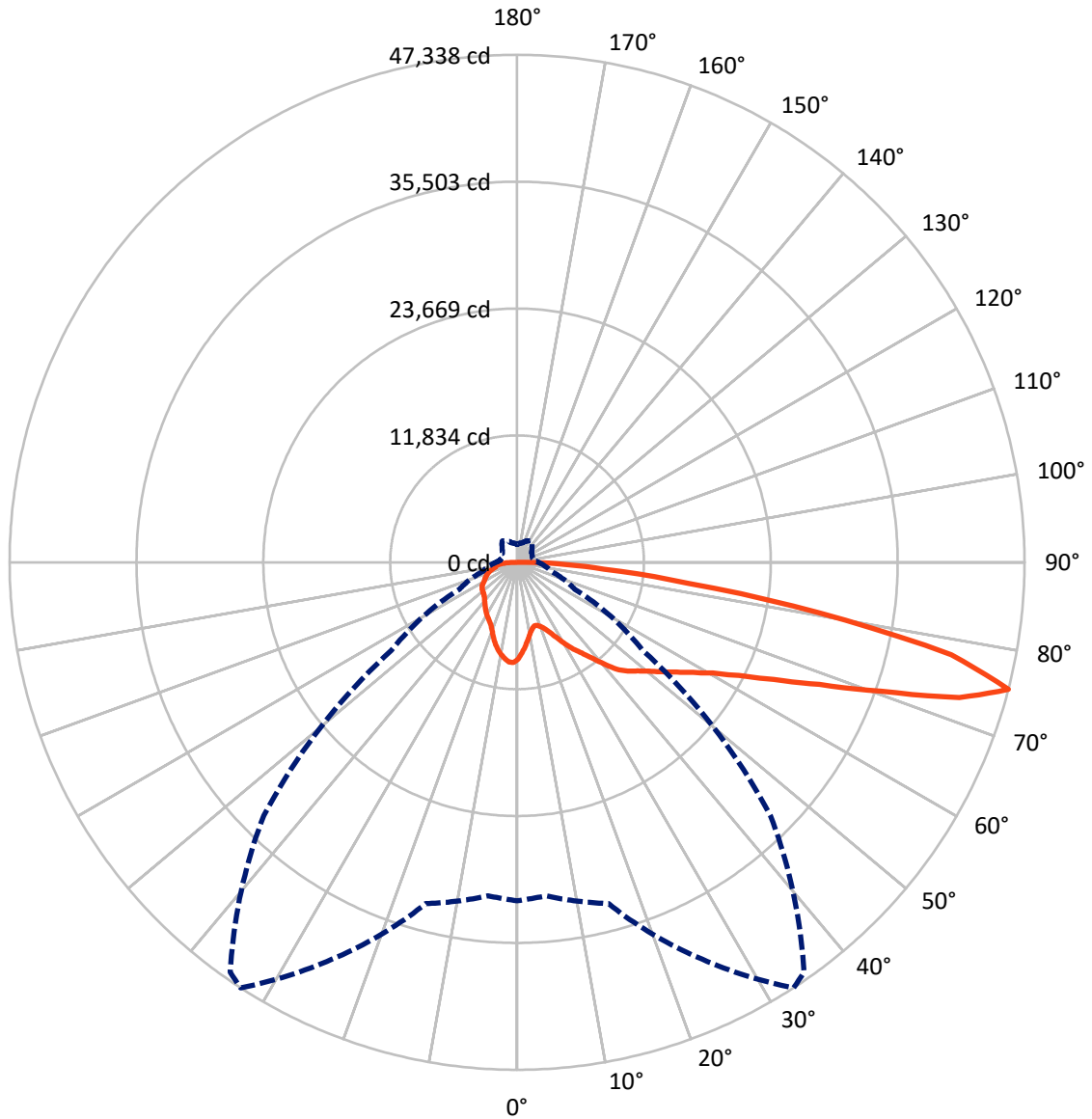
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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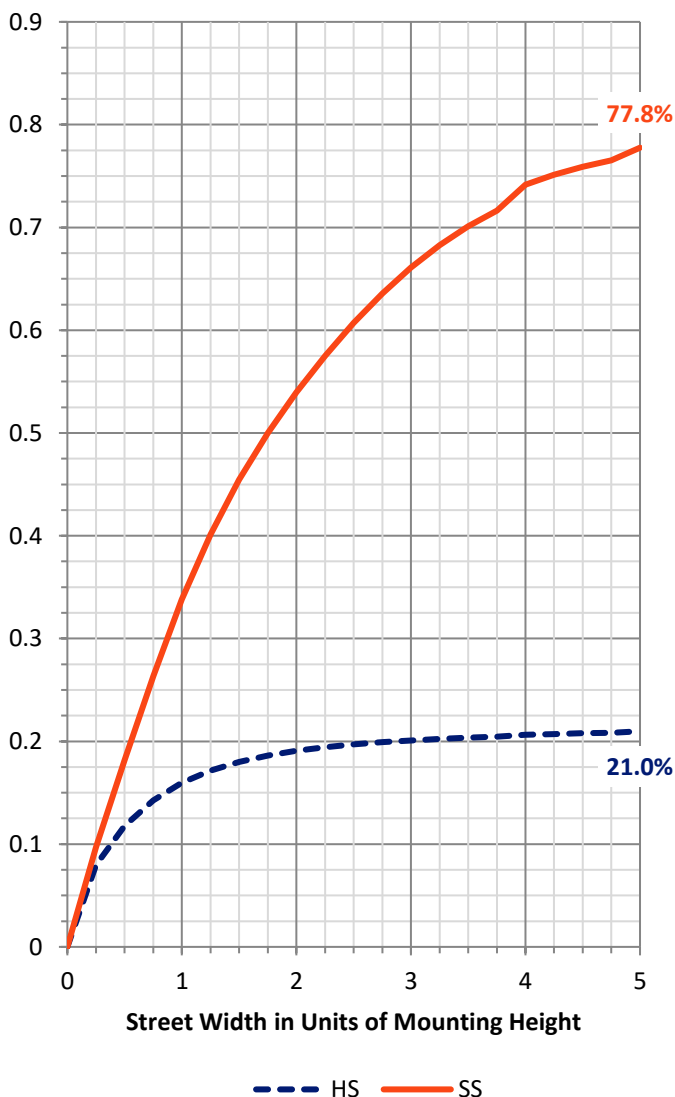
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12439.3	0.0	12439.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	45491.7	0.0	45491.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	57931.0	0.0	57931.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.9	1.4
10°-20°	2217.9	3.8
20°-30°	3622.2	6.3
30°-40°	5394.3	9.3
40°-50°	7736.9	13.4
50°-60°	10621.6	18.3
60°-70°	13297.8	23.0
70°-80°	12029.9	20.8
80°-90°	2191.3	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°	57931.0	100.0
0°-180°	57931.0	100.0

Coefficient of Utilization

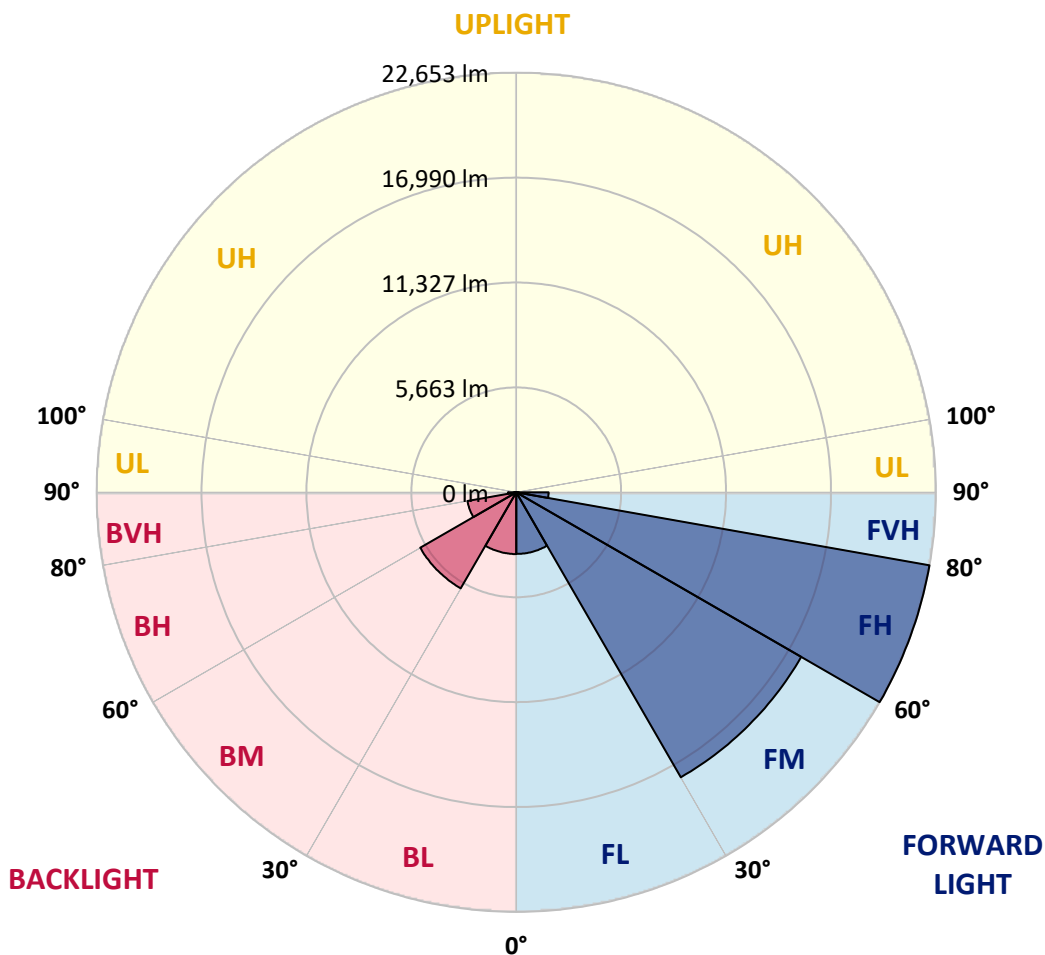


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.2	5.7			
FM (30°-60°)	17766.2	30.7			
FH (60°-80°)	22653.0	39.1			G5
FVH (80°-90°)	1745.2	3.0			G5
BL (0°-30°)	3331.8	5.8	B4/5000		
BM (30°-60°)	5986.7	10.3	B4/8500		
BH (60°-80°)	2674.7	4.6	B4/5000		G4/5000
BVH (80°-90°)	446.1	0.8			G3/500
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°	33°	35°	45°	55°	65°	75°	85°
0°	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9
2.5°	8408.6	8376.6	8436.6	8444.6	8496.6	8516.6	8588.7	8700.7	8792.8	8898.9	8994.9
5°	7646.2	7624.2	7708.2	7768.2	7882.3	7930.3	8100.4	8338.5	8550.7	8790.8	9008.9
7.5°	6921.8	6909.8	7003.8	7139.9	7272.0	7338.0	7632.2	7978.4	8332.5	8720.8	9054.9
10°	6311.4	6307.4	6397.5	6531.6	6725.7	6799.7	7179.9	7636.2	8132.4	8666.7	9133.0
12.5°	5969.3	5983.3	6025.3	6137.3	6317.4	6391.5	6813.7	7350.0	7964.3	8648.7	9247.0
15°	6053.3	6075.3	6003.3	5999.3	6127.3	6185.4	6581.6	7145.9	7844.3	8678.7	9413.1
17.5°	6411.5	6415.5	6225.4	6105.3	6183.4	6213.4	6509.6	7029.8	7774.2	8746.8	9621.2
20°	6915.8	6905.8	6569.6	6369.5	6411.5	6419.5	6611.6	7031.8	7768.2	8864.8	9891.4
22.5°	7584.1	7510.1	7057.9	6785.7	6775.7	6763.7	6873.8	7179.9	7856.3	9056.9	10213.6
25°	8456.6	8386.6	7764.2	7392.0	7312.0	7282.0	7298.0	7496.1	8030.4	9263.1	10573.8
27.5°	9427.1	9305.1	8704.7	8178.5	8012.4	7970.3	7874.3	7942.3	8220.5	9461.2	11002.0
30°	10239.6	10173.6	9649.3	9024.9	8828.8	8768.8	8516.6	8442.6	8494.6	9731.3	11542.3
32.5°	10693.8	10649.8	10331.6	9827.4	9645.3	9561.2	9205.0	9056.9	8934.9	10157.5	12274.7
35°	11244.1	11216.1	11024.0	10657.8	10387.7	10299.6	10023.5	9869.4	9555.2	10743.9	13221.2
37.5°	11944.5	11914.5	11918.5	11622.3	11300.2	11218.1	11036.0	10873.9	10359.7	11514.3	14249.8
40°	12736.9	12678.9	12656.9	12642.9	12438.8	12392.8	12296.7	12076.6	11368.2	12434.8	15264.3
42.5°	13929.6	13723.5	13283.2	13449.3	13651.4	13627.4	13705.5	13389.3	12488.8	13523.4	16254.9
45°	15080.2	14742.0	13981.6	14017.6	14459.9	14594.0	15178.3	14954.2	13703.5	14716.0	17279.4
47.5°	15604.5	15348.4	14702.0	14704.0	15142.3	15420.4	16701.1	16541.0	14980.2	16070.8	18530.1
50°	16190.8	15934.7	15354.4	15572.5	15954.7	16250.9	18171.9	18089.9	16194.8	17553.6	20028.9
52.5°	16831.2	16396.9	16028.7	16419.0	16955.3	17299.4	19644.7	19420.6	17309.4	19046.4	21751.9
55°	16839.2	16721.1	17001.3	17287.4	18089.9	18512.1	21187.6	20595.2	18217.9	20513.2	23154.6
57.5°	17797.7	17605.6	18199.9	18332.0	19380.6	19856.8	22722.4	21617.8	19142.4	21637.8	23911.0
60°	19066.4	18902.3	19388.6	19736.8	20977.4	21613.8	24361.3	22668.4	19868.8	22486.3	23875.0
62.5°	21257.6	21071.5	21065.5	21553.8	23224.7	23965.1	26200.3	23698.9	20157.0	22654.4	22856.5
65°	24465.3	24169.2	23610.9	23843.0	26328.4	27066.8	28255.4	24445.3	19776.8	21753.9	20233.0
67.5°	27587.1	27577.0	26890.7	27366.9	30426.6	31018.9	30596.7	24519.4	18590.1	18618.2	15578.5
70°	30698.7	30738.8	30622.7	32279.6	35963.6	36580.0	33090.1	23524.8	15922.7	13445.3	9333.1
72.5°	33164.1	33154.1	33738.4	38010.7	43149.5	43011.5	35191.2	20511.2	11432.2	7258.0	4460.4
75°	31567.2	31219.0	32960.0	40848.3	47337.8	46663.5	33404.2	14307.8	5933.2	3303.8	2401.3
77.5°	20589.2	20919.4	23474.8	33744.4	41406.6	40586.1	24507.4	6675.6	2795.5	2167.2	1740.9
80°	7456.1	7804.3	10992.0	19114.4	28527.6	28393.5	12068.6	2743.5	1891.0	1636.9	1268.7
82.5°	2565.4	2693.5	4336.4	8488.6	16106.8	16707.1	4540.5	1558.9	1374.8	1160.6	868.5
85°	1006.5	1152.6	1983.1	4084.2	8124.4	8184.5	1839.0	932.5	956.5	760.4	476.3
87.5°	382.2	464.3	948.5	1897.0	3710.0	3407.9	658.4	444.2	544.3	452.2	226.1
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°	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9	9054.9
2.5°	9068.9	9111.0	9199.0	9259.1	9323.1	9341.1	9349.1	9365.1	9381.1	9375.1	9377.1
5°	9125.0	9207.0	9349.1	9409.1	9437.1	9405.1	9343.1	9293.1	9257.1	9237.0	9231.0
7.5°	9217.0	9333.1	9485.2	9475.2	9411.1	9269.1	9109.0	8988.9	8888.8	8852.8	8832.8
10°	9339.1	9475.2	9581.2	9467.2	9281.1	9034.9	8794.8	8608.7	8458.6	8400.6	8390.6
12.5°	9495.2	9633.3	9653.3	9411.1	9103.0	8766.8	8440.6	8194.5	7970.3	7898.3	7882.3
15°	9697.3	9827.4	9703.3	9313.1	8882.8	8430.6	8008.4	7674.2	7438.1	7350.0	7318.0
17.5°	9909.4	10033.5	9713.3	9151.0	8594.7	8032.4	7502.1	7159.9	6889.8	6787.7	6775.7
20°	10163.5	10219.6	9671.3	8918.9	8198.5	7516.1	6957.8	6635.6	6491.5	6419.5	6411.5
22.5°	10477.7	10417.7	9575.2	8604.7	7696.2	6919.8	6465.5	6315.4	6279.4	6263.4	6269.4
25°	10809.9	10625.8	9433.1	8194.5	7061.9	6323.4	6105.3	6147.4	6195.4	6189.4	6189.4
27.5°	11176.1	10837.9	9215.0	7650.2	6359.5	5835.2	5861.2	6015.3	6087.3	6085.3	6083.3
30°	11646.4	11078.0	8936.9	6995.8	5703.1	5491.0	5649.1	5837.2	5935.2	5931.2	5933.2
32.5°	12224.7	11342.2	8558.7	6265.4	5228.9	5236.9	5419.0	5605.1	5719.1	5709.1	5711.1
35°	12901.0	11638.3	8046.4	5545.0	4914.7	5034.7	5178.8	5308.9	5417.0	5402.9	5388.9
37.5°	13637.4	11928.5	7366.0	4900.7	4658.5	4846.6	4966.7	4988.7	5038.7	5002.7	4976.7
40°	14337.8	12150.6	6489.5	4372.4	4400.4	4686.6	4764.6	4676.6	4586.5	4574.5	4538.5
42.5°	14948.2	12224.7	5603.1	3950.2	4128.3	4518.5	4566.5	4382.4	4220.3	4144.3	4112.2
45°	15592.5	12250.7	4776.6	3596.0	3866.1	4368.4	4420.4	4174.3	3946.2	3782.1	3728.0
47.5°	16435.0	12438.8	4134.3	3333.8	3666.0	4268.3	4342.4	4008.2	3712.0	3477.9	3427.9
50°	17537.6	12811.0	3612.0	3133.7	3535.9	4202.3	4286.3	3846.1	3519.9	3237.8	3187.7
52.5°	18762.2	13153.2	3189.7	2971.6	3409.9	4086.2	4214.3	3730.0	3339.8	3015.6	2961.6
55°	19618.7	12891.0	2849.6	2803.5	3245.8	3920.1	4114.2	3632.0	3081.7	2799.5	2751.5
57.5°	19782.8	11994.5	2591.4	2629.4	3047.7	3712.0	3960.2	3413.9	2941.6	2705.5	2655.4
60°	19334.5	10745.9	2399.3	2469.3	2835.5	3449.9	3672.0	3259.8	2807.5	2605.4	2563.4
62.5°	18207.9	9467.2	2257.2	2325.3	2637.4	3183.7	3491.9	3097.7	2671.5	2491.4	2449.3
65°	15932.7	7948.3	2121.2	2197.2	2453.3	2953.6	3329.8	2947.6	2537.4	2399.3	2359.3
67.5°	12026.6	5953.2	1993.1	2061.1	2289.2	2753.5	3153.7	2799.5	2407.3	2319.3	2271.2
70°	7081.9	3728.0	1847.0	1919.0	2117.2	2545.4	2965.6	2637.4	2245.2	2205.2	2143.2
72.5°	3295.8	2243.2	1680.9	1751.0	1901.0	2267.2	2723.5	2425.3	2053.1	1965.1	1881.0
75°	1967.1	1640.9	1484.8	1546.8	1652.9	1971.1	2419.3	2209.2	1871.0	1755.0	1666.9
77.5°	1470.8	1254.7	1268.7	1334.7	1420.8	1724.9	2143.2	2039.1	1730.9	1640.9	1580.9
80°	1058.6	952.5	1034.6	1106.6	1196.7	1568.9	2053.1	1885.0	1564.9	1444.8	1388.8
82.5°	706.4	684.4	778.4	852.5	940.5	1372.7	1929.1	1650.9	1336.7	1184.6	1060.6
85°	390.2	412.2	524.3	556.3	632.3	966.5	1580.9	1326.7	1006.5	810.4	774.4
87.5°	162.1	190.1	282.2	272.1	336.2	576.3	1040.6	800.4	640.3	478.3	372.2
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)