

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: P318673

Luminaire Tested: **GAN-SA9A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318673
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-SA9A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 38170 lumens
Efficiency: N/A
Efficacy: 131.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

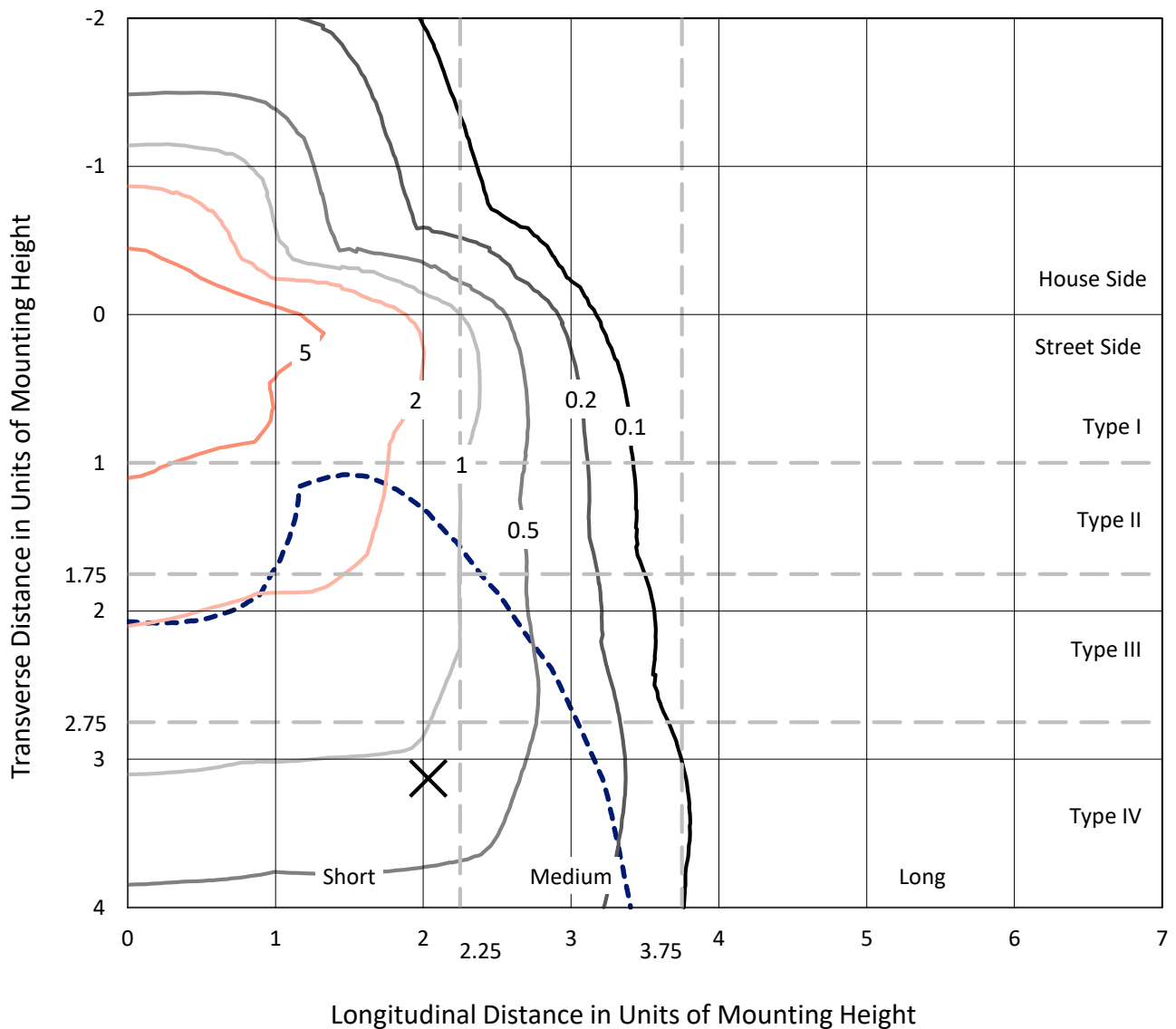
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

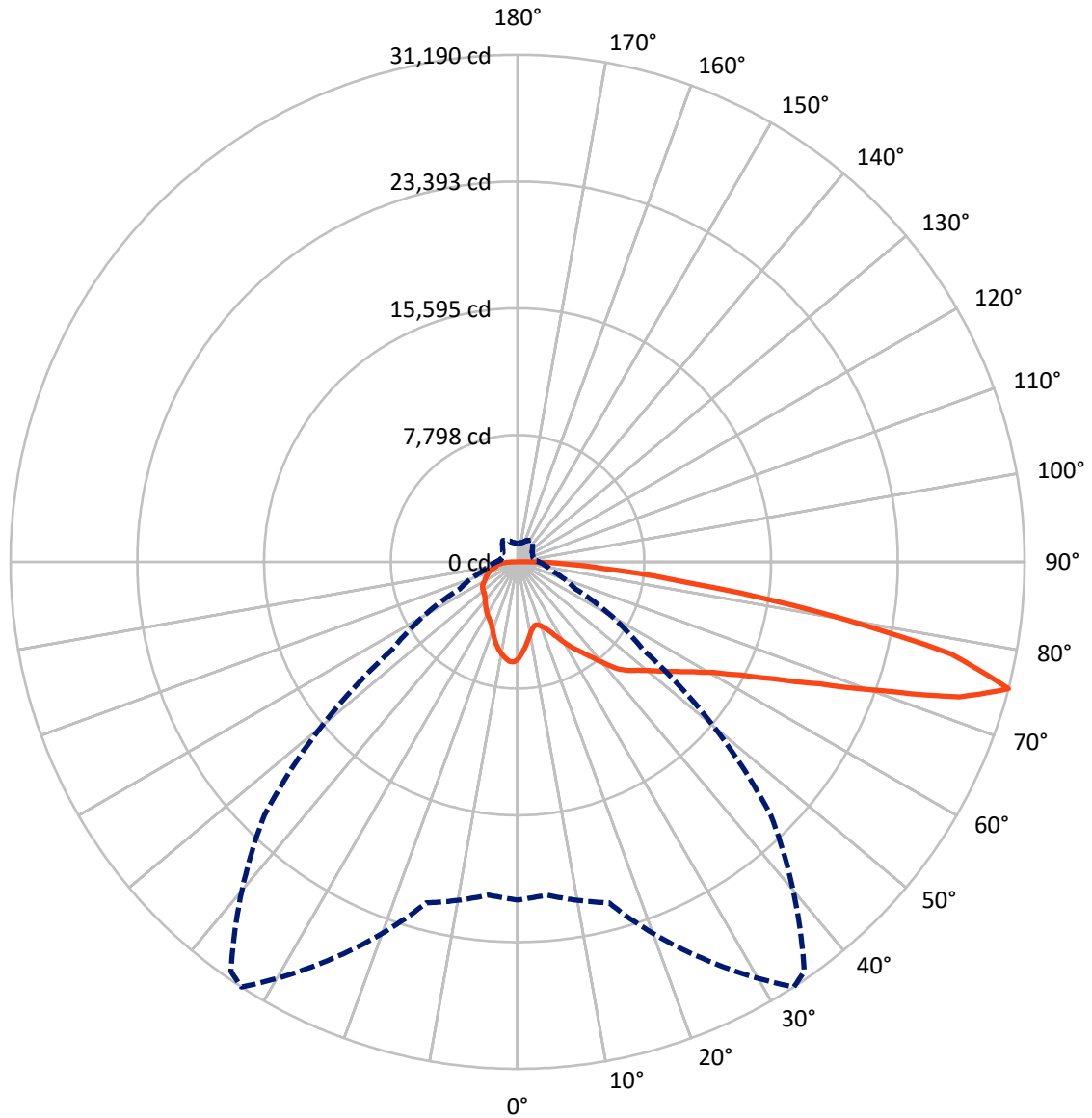
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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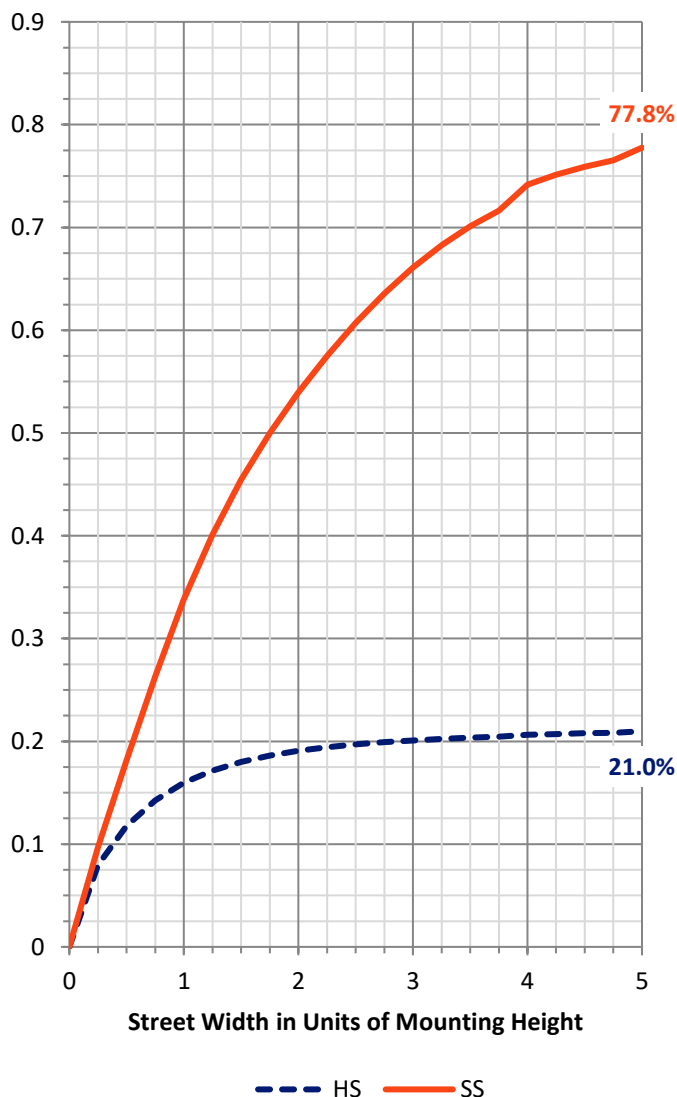
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8196.1	0.0	8196.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29973.9	0.0	29973.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	38170.0	0.0	38170.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.6	1.4
10°-20°	1461.4	3.8
20°-30°	2386.6	6.3
30°-40°	3554.3	9.3
40°-50°	5097.8	13.4
50°-60°	6998.5	18.3
60°-70°	8761.8	23.0
70°-80°	7926.3	20.8
80°-90°	1443.8	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°	38170.0	100.0
0°-180°	38170.0	100.0

Coefficient of Utilization

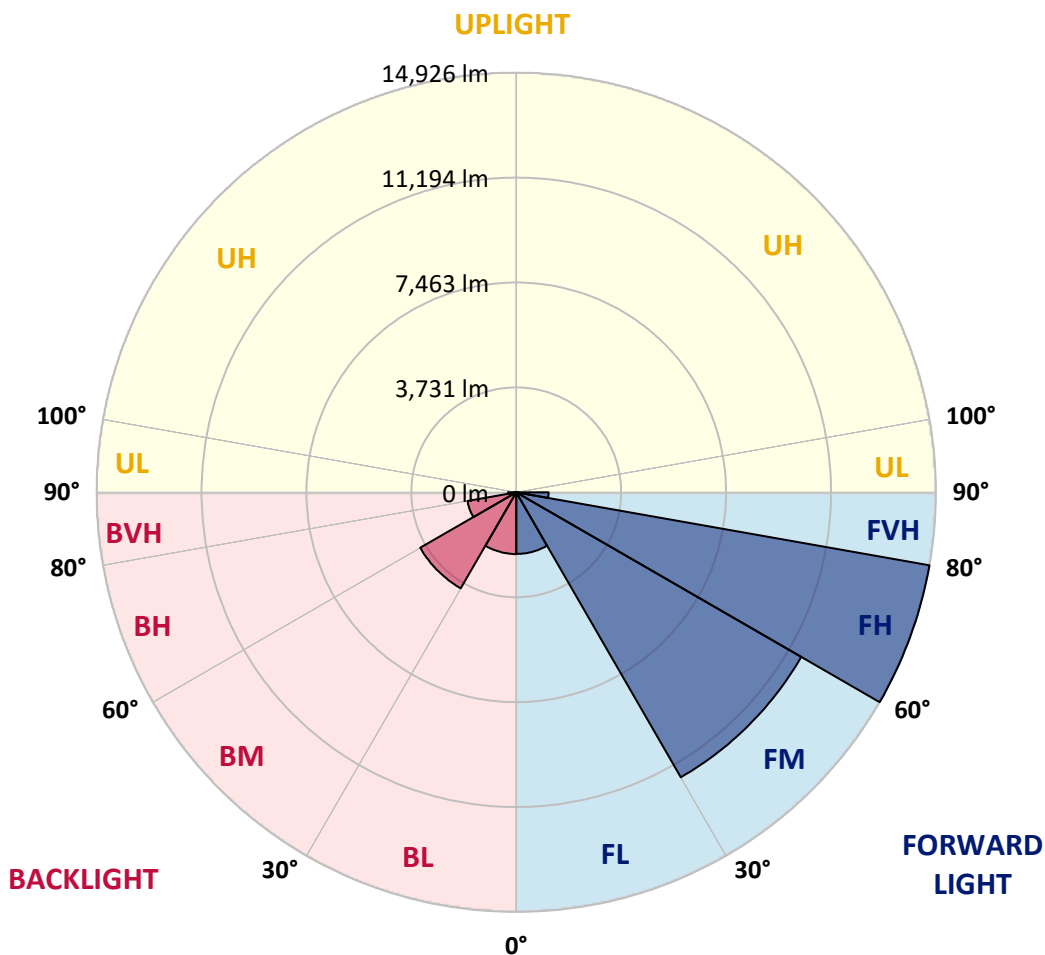


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2192.3	5.7			
FM (30°-60°)	11705.9	30.7			
FH (60°-80°)	14925.8	39.1			G5
FVH (80°-90°)	1149.9	3.0			G5
BL (0°-30°)	2195.3	5.8	B3/2500		
BM (30°-60°)	3944.6	10.3	B3/5000		
BH (60°-80°)	1762.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	293.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2
2.5°	5540.3	5519.2	5558.8	5564.0	5598.3	5611.5	5659.0	5732.8	5793.5	5863.3	5926.6
5°	5038.0	5023.5	5078.8	5118.4	5193.5	5225.2	5337.3	5494.2	5633.9	5792.1	5935.9
7.5°	4560.7	4552.8	4614.7	4704.4	4791.4	4834.9	5028.7	5256.8	5490.2	5746.0	5966.2
10°	4158.5	4155.9	4215.2	4303.6	4431.5	4480.2	4730.8	5031.4	5358.4	5710.4	6017.6
12.5°	3933.1	3942.3	3970.0	4043.8	4162.5	4211.3	4489.5	4842.8	5247.6	5698.5	6092.8
15°	3988.4	4002.9	3955.5	3952.8	4037.2	4075.5	4336.5	4708.3	5168.5	5718.3	6202.2
17.5°	4224.5	4227.1	4101.8	4022.7	4074.1	4093.9	4289.1	4631.9	5122.3	5763.1	6339.3
20°	4556.7	4550.1	4328.6	4196.8	4224.5	4229.7	4356.3	4633.2	5118.4	5840.9	6517.3
22.5°	4997.1	4948.3	4650.3	4471.0	4464.4	4456.5	4529.0	4730.8	5176.4	5967.5	6729.6
25°	5572.0	5525.8	5115.8	4870.5	4817.8	4798.0	4808.5	4939.1	5291.1	6103.3	6966.9
27.5°	6211.4	6131.0	5735.4	5388.7	5279.2	5251.6	5188.3	5233.1	5416.4	6233.8	7249.1
30°	6746.7	6703.2	6357.8	5946.4	5817.2	5777.6	5611.5	5562.7	5597.0	6411.8	7605.1
32.5°	7046.0	7017.0	6807.4	6475.1	6355.1	6299.8	6065.1	5967.5	5887.1	6692.7	8087.6
35°	7408.6	7390.2	7263.6	7022.3	6844.3	6786.3	6604.3	6502.8	6295.8	7079.0	8711.3
37.5°	7870.1	7850.3	7852.9	7657.8	7445.5	7391.5	7271.5	7164.7	6825.8	7586.6	9389.0
40°	8392.2	8354.0	8339.5	8330.2	8195.8	8165.4	8102.1	7957.1	7490.4	8193.1	10057.5
42.5°	9178.0	9042.2	8752.2	8861.6	8994.8	8978.9	9030.4	8822.0	8228.7	8910.4	10710.1
45°	9936.2	9713.3	9212.3	9236.0	9527.4	9615.8	10000.8	9853.1	9029.0	9696.2	11385.2
47.5°	10281.6	10112.8	9687.0	9688.3	9977.0	10160.3	11004.2	10898.7	9870.2	10588.8	12209.3
50°	10667.9	10499.2	10116.8	10260.5	10512.4	10707.5	11973.2	11919.2	10670.6	11565.8	13196.8
52.5°	11089.9	10803.7	10561.1	10818.2	11171.6	11398.4	12943.7	12796.0	11405.0	12549.4	14332.0
55°	11095.1	11017.3	11201.9	11390.5	11919.2	12197.4	13960.2	13569.9	12003.6	13515.9	15256.3
57.5°	11726.7	11600.1	11991.7	12078.7	12769.6	13083.4	14971.5	14243.7	12612.7	14256.9	15754.7
60°	12562.6	12454.5	12774.9	13004.3	13821.8	14241.1	16051.3	14935.9	13091.3	14815.9	15731.0
62.5°	14006.4	13883.7	13879.8	14201.5	15302.4	15790.3	17263.0	15614.9	13281.2	14926.7	15059.8
65°	16119.9	15924.8	15556.9	15709.9	17347.4	17833.9	18617.1	16106.7	13030.7	14333.3	13331.3
67.5°	18176.8	18170.2	17717.9	18031.7	20047.7	20438.0	20159.8	16155.5	12248.8	12267.3	10264.5
70°	20227.0	20253.4	20176.9	21268.6	23696.0	24102.1	21802.6	15500.2	10491.3	8859.0	6149.5
72.5°	21851.4	21844.8	22229.8	25044.8	28430.7	28339.7	23187.0	13514.6	7532.6	4782.2	2938.9
75°	20799.2	20569.8	21716.9	26914.4	31190.3	30746.0	22009.6	9427.2	3909.3	2176.8	1582.2
77.5°	13566.0	13783.5	15467.3	22233.8	27282.3	26741.7	16147.6	4398.5	1841.9	1427.9	1147.1
80°	4912.7	5142.1	7242.5	12594.3	18796.4	18708.1	7951.8	1807.7	1246.0	1078.5	835.9
82.5°	1690.3	1774.7	2857.2	5593.1	10612.6	11008.1	2991.7	1027.1	905.8	764.7	572.2
85°	663.2	759.5	1306.6	2691.0	5353.1	5392.6	1211.7	614.4	630.2	501.0	313.8
87.5°	251.8	305.9	625.0	1249.9	2444.5	2245.4	433.8	292.7	358.6	298.0	149.0
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°	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2	5966.2
2.5°	5975.4	6003.1	6061.1	6100.7	6142.9	6154.7	6160.0	6170.6	6181.1	6177.1	6178.5
5°	6012.3	6066.4	6160.0	6199.6	6218.0	6196.9	6156.0	6123.1	6099.4	6086.2	6082.2
7.5°	6073.0	6149.5	6249.7	6243.1	6200.9	6107.3	6001.8	5922.7	5856.8	5833.0	5819.8
10°	6153.4	6243.1	6312.9	6237.8	6115.2	5953.0	5794.8	5672.2	5573.3	5535.0	5528.4
12.5°	6256.3	6347.2	6360.4	6200.9	5997.8	5776.3	5561.4	5399.2	5251.6	5204.1	5193.5
15°	6389.4	6475.1	6393.4	6136.3	5852.8	5554.8	5276.6	5056.4	4900.8	4842.8	4821.7
17.5°	6529.2	6610.9	6400.0	6029.5	5662.9	5292.4	4943.0	4717.6	4539.6	4472.3	4464.4
20°	6696.6	6733.5	6372.3	5876.5	5401.9	4952.3	4584.4	4372.1	4277.2	4229.7	4224.5
22.5°	6903.6	6864.1	6309.0	5669.5	5070.9	4559.4	4260.1	4161.2	4137.4	4126.9	4130.8
25°	7122.5	7001.2	6215.4	5399.2	4653.0	4166.4	4022.7	4050.4	4082.1	4078.1	4078.1
27.5°	7363.8	7141.0	6071.7	5040.6	4190.2	3844.7	3861.9	3963.4	4010.9	4009.5	4008.2
30°	7673.6	7299.2	5888.4	4609.5	3757.7	3617.9	3722.1	3846.0	3910.7	3908.0	3909.3
32.5°	8054.7	7473.2	5639.2	4128.2	3445.2	3450.5	3570.5	3693.1	3768.3	3761.7	3763.0
35°	8500.3	7668.4	5301.7	3653.5	3238.2	3317.3	3412.3	3498.0	3569.2	3559.9	3550.7
37.5°	8985.5	7859.5	4853.4	3229.0	3069.5	3193.4	3272.5	3287.0	3320.0	3296.2	3279.1
40°	9447.0	8005.9	4275.9	2880.9	2899.4	3087.9	3139.3	3081.3	3022.0	3014.1	2990.3
42.5°	9849.1	8054.7	3691.8	2602.7	2720.1	2977.2	3008.8	2887.5	2780.7	2730.6	2709.5
45°	10273.7	8071.8	3147.2	2369.3	2547.3	2878.3	2912.6	2750.4	2600.1	2492.0	2456.4
47.5°	10828.8	8195.8	2724.0	2196.6	2415.5	2812.3	2861.1	2640.9	2445.8	2291.5	2258.6
50°	11555.3	8441.0	2379.9	2064.8	2329.8	2768.8	2824.2	2534.1	2319.2	2133.3	2100.4
52.5°	12362.2	8666.5	2101.7	1958.0	2246.7	2692.4	2776.7	2457.7	2200.6	1987.0	1951.4
55°	12926.5	8493.7	1877.5	1847.2	2138.6	2582.9	2710.8	2393.1	2030.5	1844.6	1812.9
57.5°	13034.6	7903.1	1707.4	1732.5	2008.1	2445.8	2609.3	2249.4	1938.2	1782.6	1749.6
60°	12739.3	7080.3	1580.9	1627.0	1868.3	2273.1	2419.4	2147.8	1849.8	1716.7	1689.0
62.5°	11997.0	6237.8	1487.3	1532.1	1737.8	2097.7	2300.8	2041.0	1760.2	1641.5	1613.8
65°	10497.8	5237.1	1397.6	1447.7	1616.5	1946.1	2194.0	1942.1	1671.9	1580.9	1554.5
67.5°	7924.1	3922.5	1313.2	1358.0	1508.4	1814.2	2077.9	1844.6	1586.1	1528.1	1496.5
70°	4666.1	2456.4	1217.0	1264.4	1395.0	1677.1	1954.0	1737.8	1479.4	1453.0	1412.1
72.5°	2171.6	1478.0	1107.5	1153.7	1252.6	1493.9	1794.5	1598.0	1352.8	1294.8	1239.4
75°	1296.1	1081.2	978.3	1019.2	1089.1	1298.7	1594.1	1455.6	1232.8	1156.3	1098.3
77.5°	969.1	826.7	835.9	879.4	936.1	1136.5	1412.1	1343.5	1140.5	1081.2	1041.6
80°	697.5	627.6	681.7	729.1	788.5	1033.7	1352.8	1242.0	1031.1	952.0	915.0
82.5°	465.4	450.9	512.9	561.7	619.7	904.5	1271.0	1087.8	880.8	780.5	698.8
85°	257.1	271.6	345.4	366.5	416.6	636.8	1041.6	874.2	663.2	534.0	510.3
87.5°	106.8	125.3	185.9	179.3	221.5	379.7	685.6	527.4	421.9	315.1	245.2
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)