

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: P318671

Luminaire Tested: **GAN-SA7A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318671
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-SA7A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 30199 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

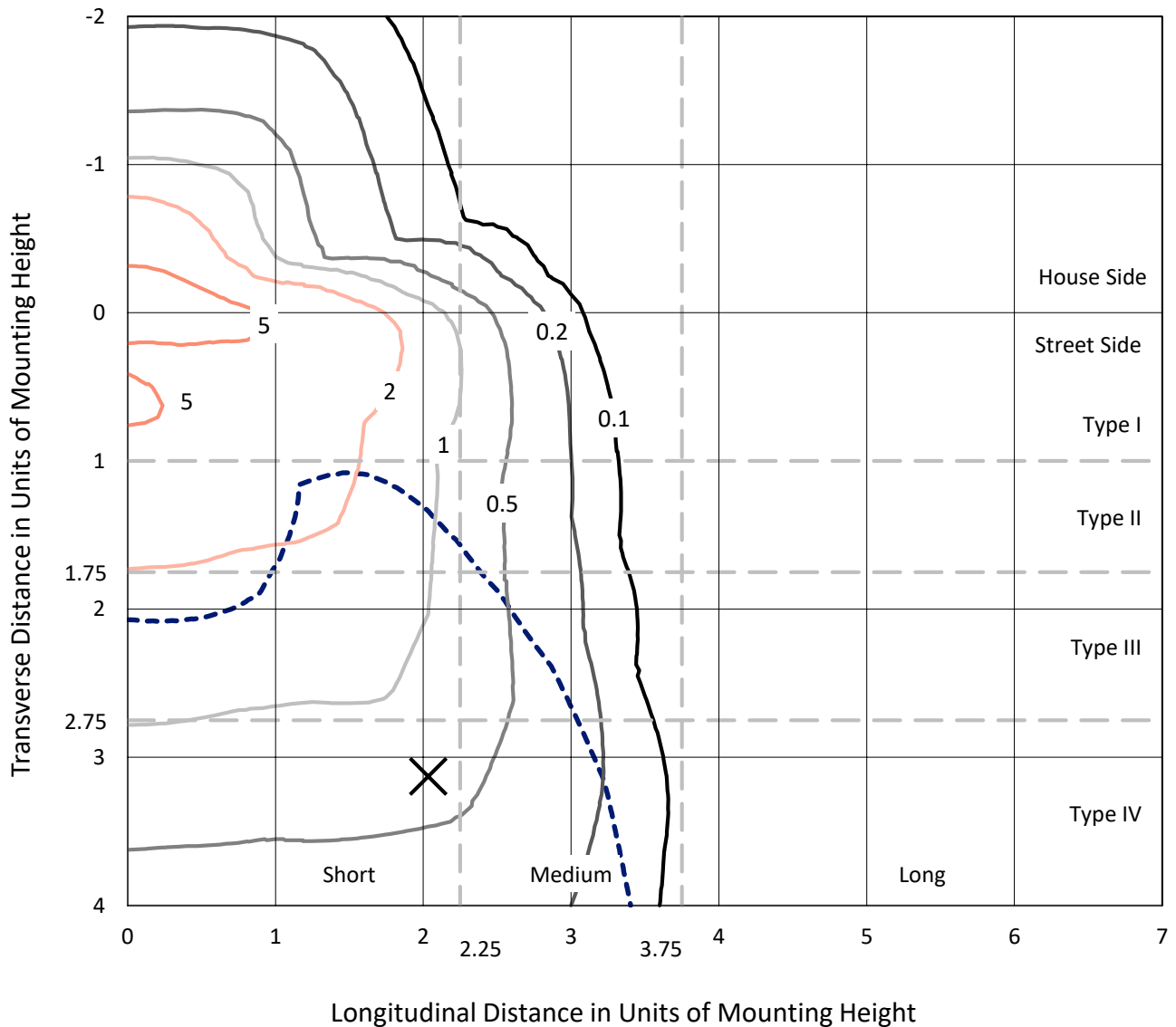
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318671
 CATALOG NUMBER: GAN-SA7A-730-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

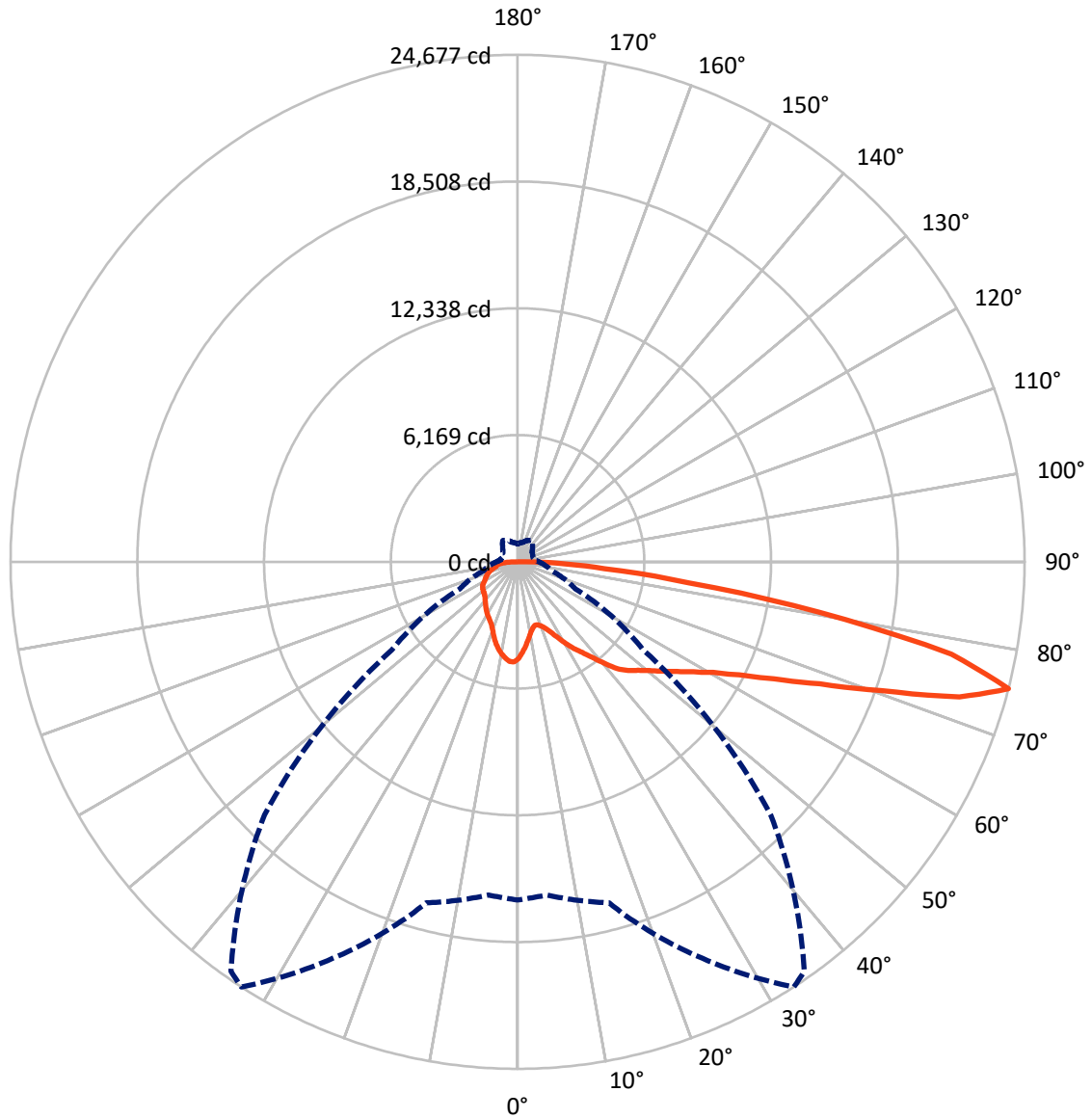
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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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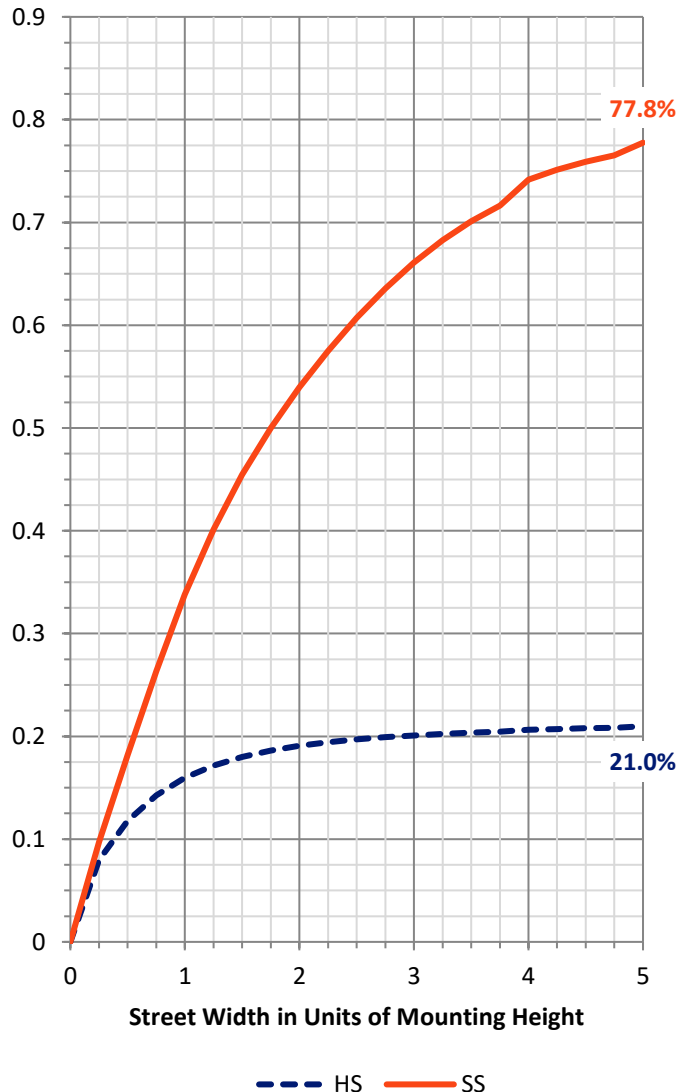
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6484.5	0.0	6484.5
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	23714.5	0.0	23714.5
	% Fixture	78.5	0.0	78.5
Total	Lumens	30199.0	0.0	30199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.9	1.4
10°-20°	1156.2	3.8
20°-30°	1888.2	6.3
30°-40°	2812.0	9.3
40°-50°	4033.2	13.4
50°-60°	5537.0	18.3
60°-70°	6932.1	23.0
70°-80°	6271.1	20.8
80°-90°	1142.3	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°	30199.0	100.0
0°-180°	30199.0	100.0

Coefficient of Utilization

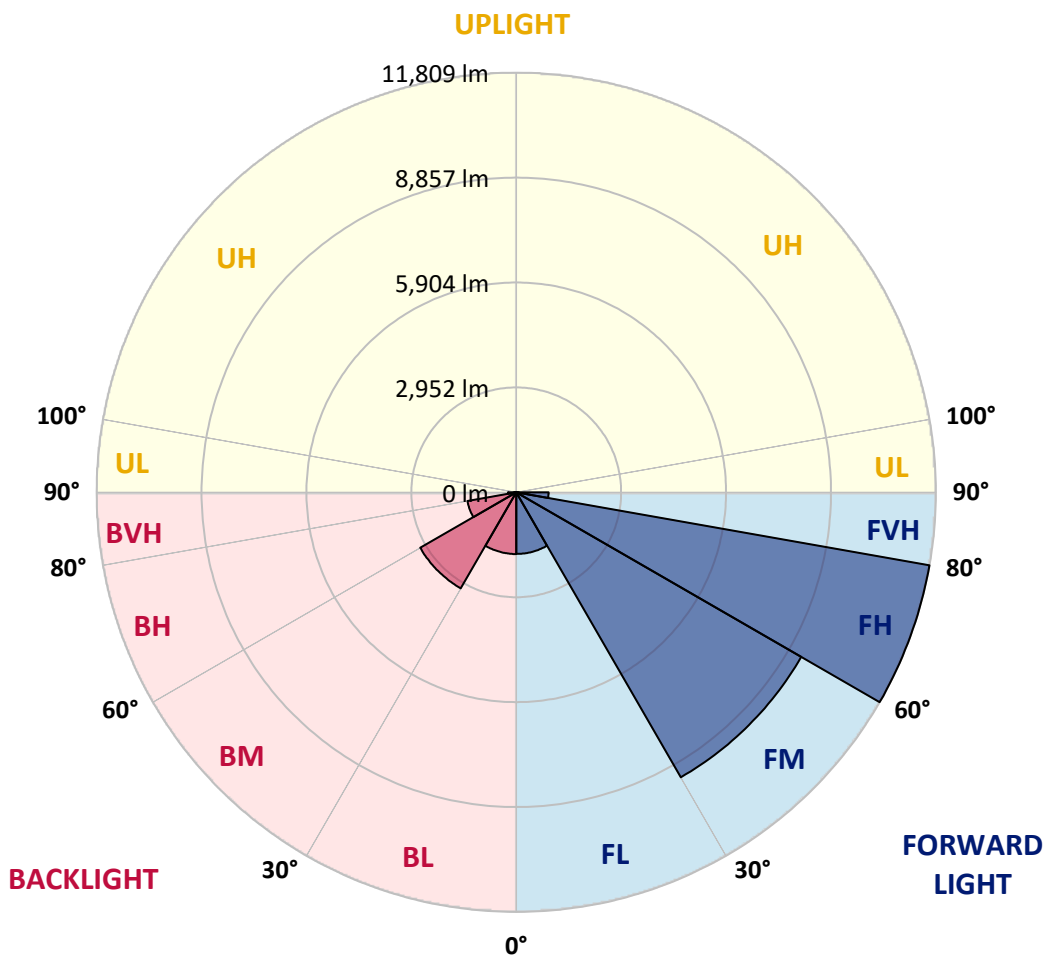


REPORT NUMBER: P318671
 CATALOG NUMBER: GAN-SA7A-730-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1734.5	5.7			
FM (30°-60°)	9261.4	30.7			
FH (60°-80°)	11808.9	39.1			G4/12000
FVH (80°-90°)	909.8	3.0			G5
BL (0°-30°)	1736.9	5.8	B3/2500		
BM (30°-60°)	3120.8	10.3	B3/5000		
BH (60°-80°)	1394.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	232.6	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°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	4383.3	4366.6	4397.9	4402.1	4429.2	4439.7	4477.2	4535.6	4583.6	4638.9	4689.0
5°	3985.9	3974.4	4018.2	4049.5	4109.0	4134.0	4222.7	4346.8	4457.4	4582.6	4696.3
7.5°	3608.3	3602.0	3651.0	3722.0	3790.8	3825.2	3978.6	4159.1	4343.7	4546.1	4720.3
10°	3290.1	3288.0	3335.0	3404.9	3506.0	3544.6	3742.8	3980.7	4239.4	4517.9	4761.0
12.5°	3111.7	3119.0	3140.9	3199.4	3293.2	3331.8	3551.9	3831.5	4151.8	4508.5	4820.4
15°	3155.5	3167.0	3129.5	3127.4	3194.1	3224.4	3430.9	3725.1	4089.2	4524.2	4907.0
17.5°	3342.3	3344.4	3245.3	3182.7	3223.3	3239.0	3393.4	3664.6	4052.7	4559.6	5015.5
20°	3605.1	3599.9	3424.7	3320.4	3342.3	3346.4	3446.6	3665.6	4049.5	4621.2	5156.3
22.5°	3953.6	3915.0	3679.2	3537.3	3532.1	3525.9	3583.2	3742.8	4095.4	4721.3	5324.3
25°	4408.4	4371.9	4047.4	3853.4	3811.7	3796.0	3804.4	3907.7	4186.2	4828.8	5512.0
27.5°	4914.3	4850.7	4537.7	4263.4	4176.8	4154.9	4104.8	4140.3	4285.3	4932.0	5735.3
30°	5337.8	5303.4	5030.1	4704.6	4602.4	4571.1	4439.7	4401.1	4428.2	5072.9	6016.9
32.5°	5574.6	5551.7	5385.8	5122.9	5028.0	4984.2	4798.5	4721.3	4657.7	5295.1	6398.7
35°	5861.5	5846.9	5746.7	5555.8	5415.0	5369.1	5225.2	5144.8	4981.1	5600.7	6892.1
37.5°	6226.6	6210.9	6213.0	6058.6	5890.7	5847.9	5753.0	5668.5	5400.4	6002.3	7428.3
40°	6639.7	6609.4	6598.0	6590.6	6484.2	6460.3	6410.2	6295.4	5926.2	6482.2	7957.2
42.5°	7261.4	7154.0	6924.5	7011.0	7116.4	7103.9	7144.6	6979.7	6510.3	7049.6	8473.5
45°	7861.2	7684.9	7288.5	7307.3	7537.8	7607.7	7912.3	7795.5	7143.5	7671.4	9007.6
47.5°	8134.5	8001.0	7664.1	7665.1	7893.5	8038.5	8706.2	8622.7	7809.1	8377.6	9659.6
50°	8440.2	8306.6	8004.1	8117.8	8317.1	8471.5	9472.9	9430.1	8442.2	9150.5	10440.9
52.5°	8774.0	8547.6	8355.7	8559.1	8838.6	9018.1	10240.6	10123.8	9023.3	9928.7	11339.1
55°	8778.1	8716.6	8862.6	9011.8	9430.1	9650.2	11044.9	10736.1	9496.9	10693.4	12070.3
57.5°	9277.8	9177.7	9487.5	9556.3	10102.9	10351.2	11845.0	11269.2	9978.8	11279.6	12464.7
60°	9939.2	9853.6	10107.1	10288.6	10935.4	11267.1	12699.4	11816.9	10357.5	11721.9	12445.9
62.5°	11081.4	10984.4	10981.3	11235.8	12106.8	12492.8	13658.0	12354.1	10507.7	11809.5	11914.9
65°	12753.6	12599.2	12308.2	12429.2	13724.8	14109.7	14729.3	12743.2	10309.5	11340.1	10547.3
67.5°	14380.9	14375.7	14017.9	14266.2	15861.2	16169.9	15949.8	12781.8	9690.9	9705.5	8121.0
70°	16003.0	16023.9	15963.4	16827.1	18747.6	19068.9	17249.6	12263.3	8300.4	7009.0	4865.3
72.5°	17288.2	17283.0	17587.6	19814.7	22493.5	22421.6	18344.9	10692.3	5959.5	3783.5	2325.2
75°	16455.8	16274.2	17181.8	21293.9	24676.9	24325.3	17413.4	7458.6	3093.0	1722.2	1251.8
77.5°	10733.0	10905.1	12237.2	17590.7	21584.9	21157.3	12775.5	3480.0	1457.3	1129.7	907.5
80°	3886.8	4068.3	5730.0	9964.2	14871.2	14801.3	6291.3	1430.2	985.8	853.3	661.4
82.5°	1337.3	1404.1	2260.5	4425.1	8396.3	8709.3	2366.9	812.6	716.6	605.0	452.7
85°	524.7	600.9	1033.8	2129.1	4235.2	4266.5	958.7	486.1	498.6	396.4	248.3
87.5°	199.2	242.0	494.5	988.9	1934.0	1776.5	343.2	231.6	283.7	235.8	117.9
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°	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3	4720.3
2.5°	4727.6	4749.5	4795.4	4826.7	4860.1	4869.4	4873.6	4882.0	4890.3	4887.2	4888.2
5°	4756.8	4799.6	4873.6	4904.9	4919.5	4902.8	4870.5	4844.4	4825.6	4815.2	4812.1
7.5°	4804.8	4865.3	4944.6	4939.3	4906.0	4831.9	4748.4	4685.8	4633.7	4614.9	4604.5
10°	4868.4	4939.3	4994.6	4935.2	4838.1	4709.8	4584.7	4487.6	4409.4	4379.2	4373.9
12.5°	4949.8	5021.7	5032.2	4906.0	4745.3	4570.1	4400.0	4271.7	4154.9	4117.3	4109.0
15°	5055.1	5122.9	5058.3	4854.8	4630.6	4394.8	4174.7	4000.5	3877.4	3831.5	3814.8
17.5°	5165.7	5230.4	5063.5	4770.3	4480.3	4187.2	3910.8	3732.4	3591.6	3538.4	3532.1
20°	5298.2	5327.4	5041.6	4649.3	4273.8	3918.1	3627.0	3459.1	3384.0	3346.4	3342.3
22.5°	5462.0	5430.7	4991.5	4485.6	4012.0	3607.2	3370.4	3292.2	3273.4	3265.1	3268.2
25°	5635.1	5539.1	4917.4	4271.7	3681.3	3296.4	3182.7	3204.6	3229.6	3226.5	3226.5
27.5°	5826.0	5649.7	4803.7	3988.0	3315.1	3041.8	3055.4	3135.7	3173.3	3172.2	3171.2
30°	6071.2	5774.9	4658.7	3646.9	2973.0	2862.4	2944.8	3042.9	3094.0	3091.9	3093.0
32.5°	6372.6	5912.6	4461.6	3266.1	2725.8	2729.9	2824.9	2921.9	2981.3	2976.1	2977.2
35°	6725.2	6067.0	4194.5	2890.6	2562.0	2624.6	2699.7	2767.5	2823.8	2816.5	2809.2
37.5°	7109.1	6218.2	3839.9	2554.7	2428.5	2526.5	2589.1	2600.6	2626.7	2607.9	2594.3
40°	7474.2	6334.0	3382.9	2279.3	2293.9	2443.1	2483.8	2437.9	2390.9	2384.7	2365.9
42.5°	7792.4	6372.6	2920.8	2059.2	2152.0	2355.4	2380.5	2284.5	2200.0	2160.4	2143.7
45°	8128.3	6386.2	2490.0	1874.5	2015.4	2277.2	2304.3	2176.0	2057.1	1971.6	1943.4
47.5°	8567.4	6484.2	2155.2	1737.9	1911.1	2225.0	2263.6	2089.4	1935.1	1813.0	1786.9
50°	9142.2	6678.3	1882.9	1633.6	1843.3	2190.6	2234.4	2004.9	1834.9	1687.8	1661.7
52.5°	9780.6	6856.7	1662.8	1549.1	1777.5	2130.1	2196.9	1944.4	1741.0	1572.0	1543.9
55°	10227.1	6720.0	1485.5	1461.5	1692.0	2043.5	2144.7	1893.3	1606.5	1459.4	1434.3
57.5°	10312.6	6252.7	1350.9	1370.7	1588.7	1935.1	2064.4	1779.6	1533.4	1410.3	1384.3
60°	10079.0	5601.7	1250.7	1287.3	1478.1	1798.4	1914.2	1699.3	1463.5	1358.2	1336.3
62.5°	9491.7	4935.2	1176.7	1212.1	1374.9	1659.7	1820.3	1614.8	1392.6	1298.7	1276.8
65°	8305.6	4143.4	1105.7	1145.4	1278.9	1539.7	1735.8	1536.6	1322.7	1250.7	1229.9
67.5°	6269.4	3103.4	1039.0	1074.4	1193.4	1435.4	1644.0	1459.4	1254.9	1209.0	1184.0
70°	3691.7	1943.4	962.8	1000.4	1103.7	1326.9	1546.0	1374.9	1170.4	1149.6	1117.2
72.5°	1718.1	1169.4	876.2	912.8	991.0	1181.9	1419.7	1264.3	1070.3	1024.4	980.6
75°	1025.4	855.4	774.0	806.4	861.6	1027.5	1261.2	1151.6	975.3	914.8	868.9
77.5°	766.7	654.1	661.4	695.8	740.6	899.2	1117.2	1063.0	902.3	855.4	824.1
80°	551.8	496.5	539.3	576.9	623.8	817.8	1070.3	982.7	815.7	753.2	723.9
82.5°	368.2	356.8	405.8	444.4	490.3	715.6	1005.6	860.6	696.8	617.5	552.9
85°	203.4	214.9	273.3	290.0	329.6	503.8	824.1	691.6	524.7	422.5	403.7
87.5°	84.5	99.1	147.1	141.9	175.2	300.4	542.4	417.3	333.8	249.3	194.0
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)