

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: P318674

Luminaire Tested: **GAN-SA0A-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318674
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-SA0A-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 42260 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

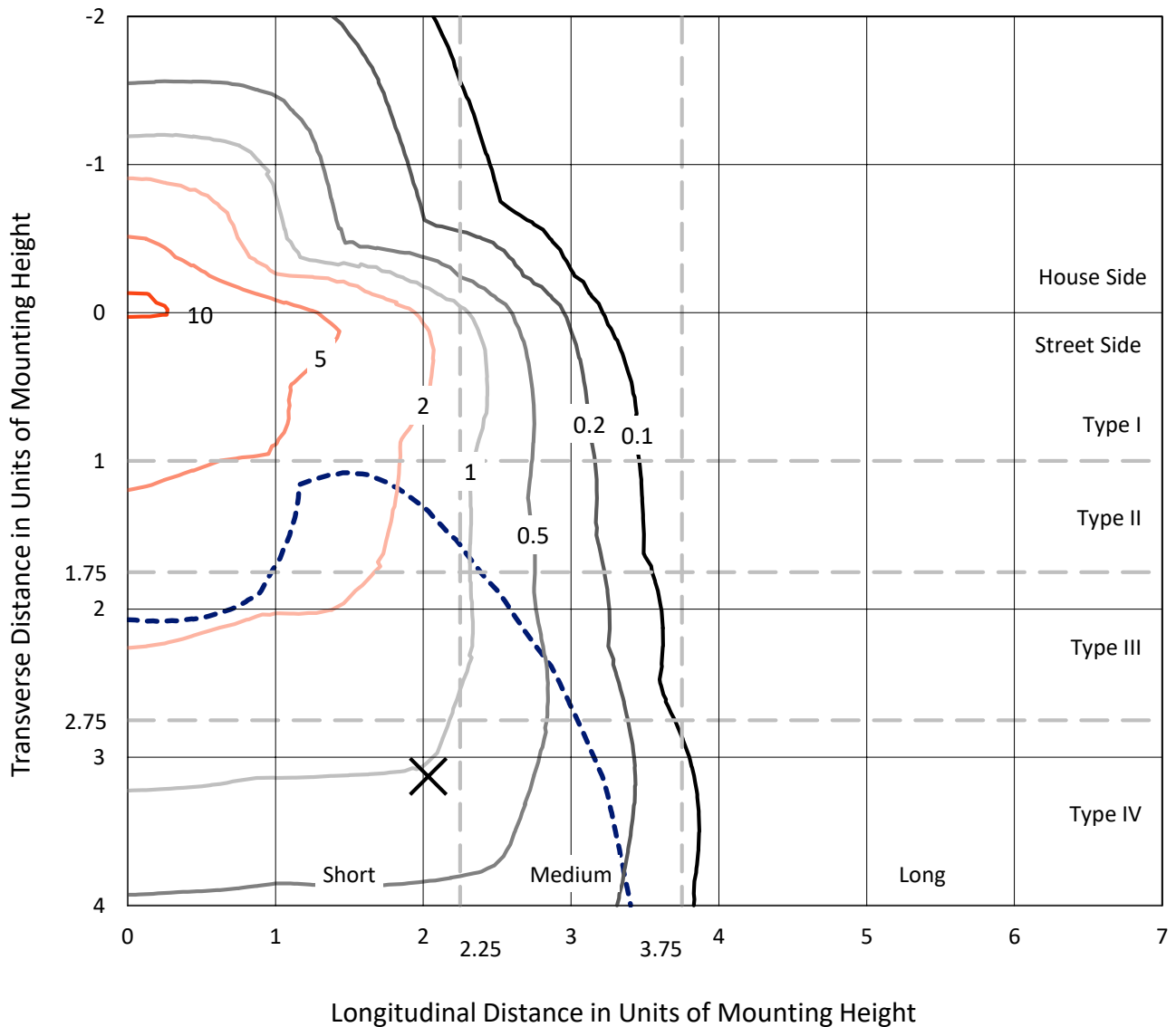
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

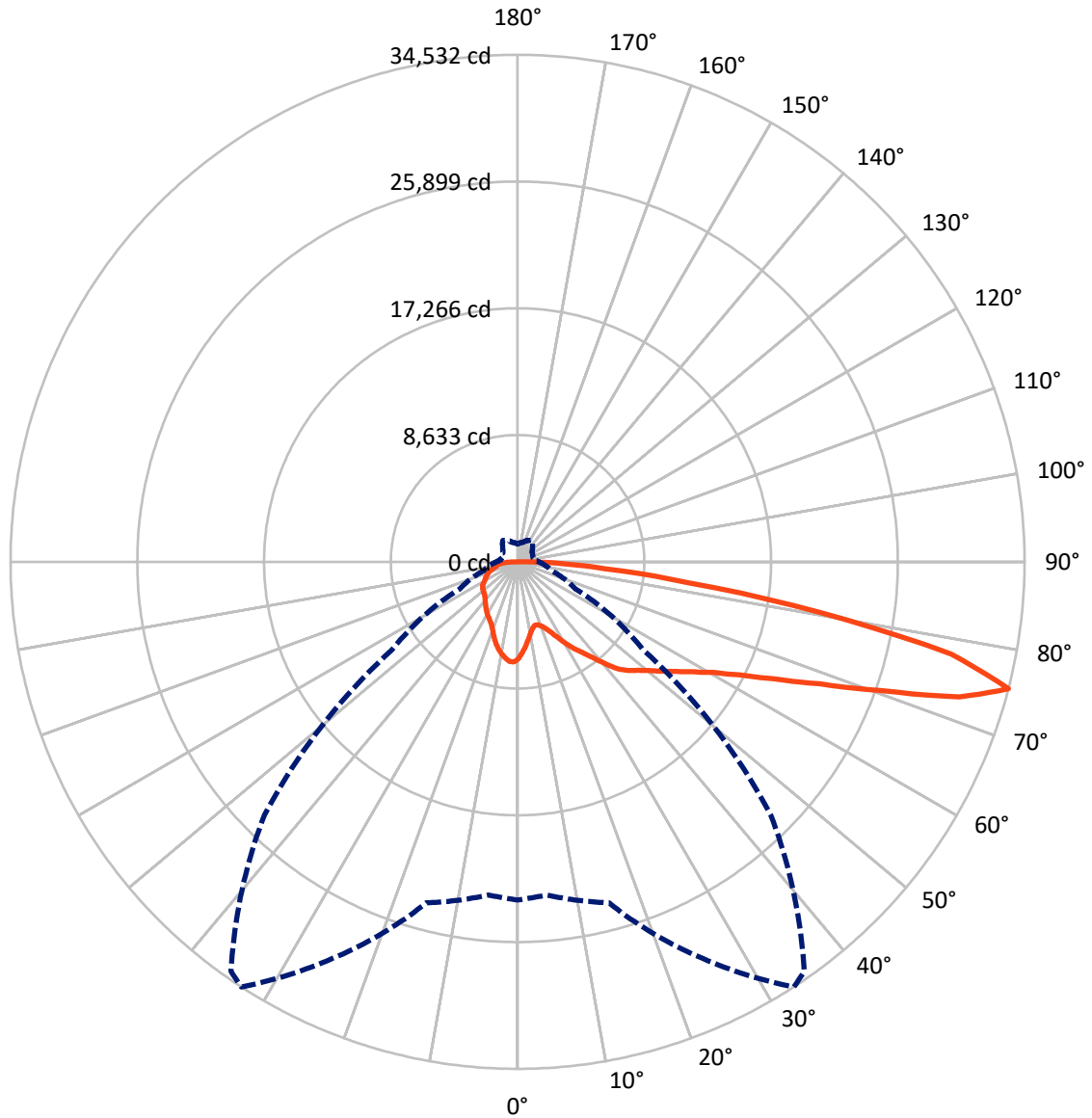
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.6 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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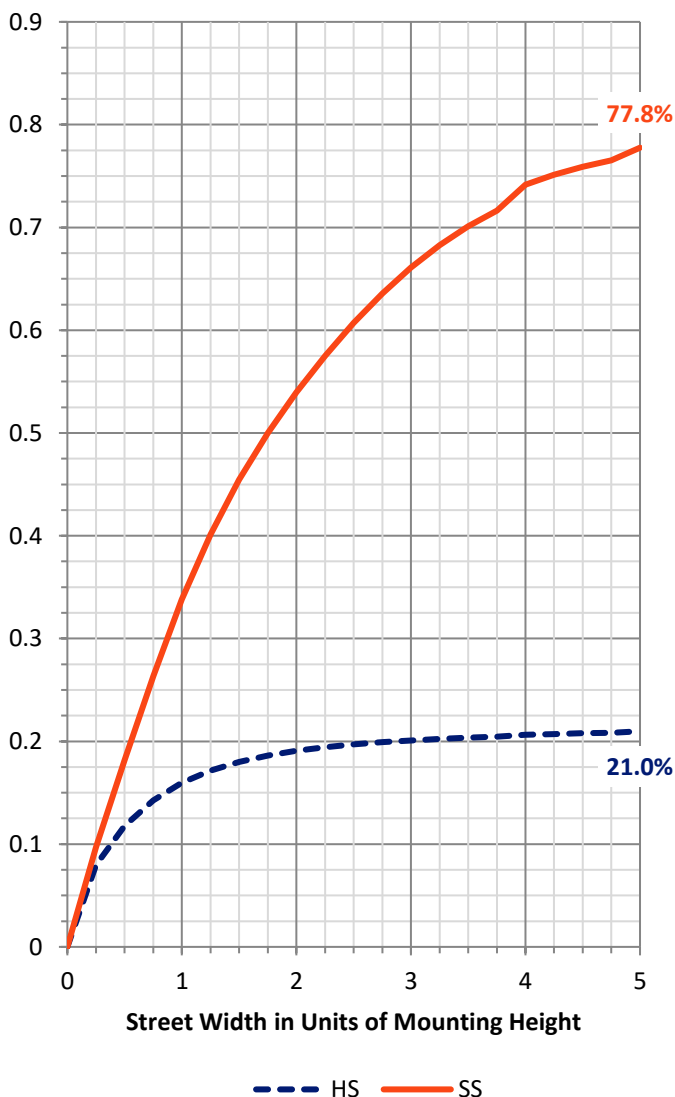
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9074.3	0.0	9074.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	33185.7	0.0	33185.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	42260.0	0.0	42260.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	597.4	1.4
10°-20°	1618.0	3.8
20°-30°	2642.4	6.3
30°-40°	3935.1	9.3
40°-50°	5644.0	13.4
50°-60°	7748.4	18.3
60°-70°	9700.6	23.0
70°-80°	8775.7	20.8
80°-90°	1598.5	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°	42260.0	100.0
0°-180°	42260.0	100.0

Coefficient of Utilization

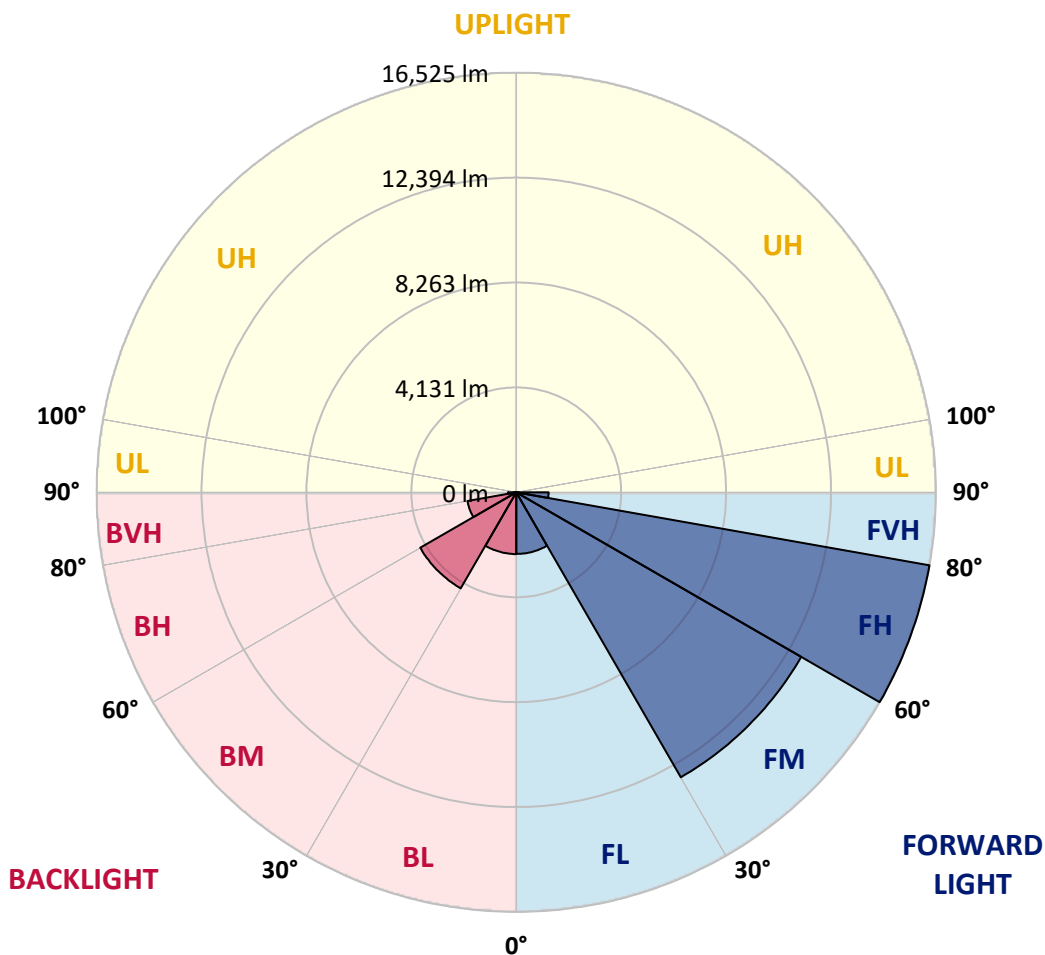


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2427.2	5.7			
FM (30°-60°)	12960.3	30.7			
FH (60°-80°)	16525.1	39.1			G5
FVH (80°-90°)	1273.1	3.0			G5
BL (0°-30°)	2430.5	5.8	B3/2500		
BM (30°-60°)	4367.2	10.3	B3/5000		
BH (60°-80°)	1951.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	325.4	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°	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5
2.5°	6134.0	6110.6	6154.4	6160.2	6198.2	6212.8	6265.3	6347.1	6414.2	6491.6	6561.7
5°	5577.8	5561.7	5623.0	5666.8	5750.0	5785.1	5909.2	6082.9	6237.6	6412.8	6571.9
7.5°	5049.4	5040.6	5109.2	5208.5	5304.8	5353.0	5567.6	5820.1	6078.5	6361.7	6605.5
10°	4604.1	4601.2	4666.9	4764.7	4906.3	4960.3	5237.7	5570.5	5932.5	6322.3	6662.4
12.5°	4354.5	4364.7	4395.4	4477.1	4608.5	4662.5	4970.5	5361.7	5809.9	6309.1	6745.6
15°	4415.8	4431.9	4379.3	4376.4	4469.8	4512.2	4801.2	5212.9	5722.3	6331.0	6866.8
17.5°	4677.1	4680.0	4541.4	4453.8	4510.7	4532.6	4748.6	5128.2	5671.2	6380.7	7018.6
20°	5045.0	5037.7	4792.4	4646.5	4677.1	4683.0	4823.1	5129.6	5666.8	6466.8	7215.7
22.5°	5532.5	5478.5	5148.6	4950.1	4942.8	4934.0	5014.3	5237.7	5731.1	6606.9	7450.7
25°	6169.0	6117.9	5663.9	5392.4	5334.0	5312.1	5323.8	5468.3	5858.1	6757.3	7713.4
27.5°	6877.0	6787.9	6350.0	5966.1	5844.9	5814.3	5744.2	5793.8	5996.7	6901.8	8025.8
30°	7469.7	7421.5	7039.0	6583.6	6440.5	6396.7	6212.8	6158.8	6196.7	7098.9	8420.0
32.5°	7801.0	7768.9	7536.8	7168.9	7036.1	6974.8	6715.0	6606.9	6517.9	7409.8	8954.3
35°	8202.5	8182.0	8041.9	7774.8	7577.7	7513.5	7312.0	7199.6	6970.4	7837.5	9644.7
37.5°	8713.4	8691.5	8694.4	8478.4	8243.3	8183.5	8050.7	7932.4	7557.2	8399.5	10395.0
40°	9291.5	9249.1	9233.1	9222.8	9074.0	9040.4	8970.3	8809.7	8293.0	9071.0	11135.2
42.5°	10161.5	10011.1	9690.0	9811.1	9958.6	9941.1	9998.0	9767.3	9110.4	9865.1	11857.7
45°	11000.9	10754.2	10199.4	10225.7	10548.3	10646.1	11072.4	10908.9	9996.5	10735.2	12605.1
47.5°	11383.3	11196.5	10725.0	10726.4	11046.1	11249.0	12183.3	12066.5	10927.9	11723.4	13517.5
50°	11811.0	11624.2	11200.8	11360.0	11638.8	11854.8	13256.2	13196.4	11813.9	12805.1	14610.9
52.5°	12278.2	11961.4	11692.8	11977.4	12368.7	12619.7	14330.6	14167.1	12627.0	13894.1	15867.7
55°	12284.0	12197.9	12402.2	12611.0	13196.4	13504.4	15456.1	15024.0	13289.8	14964.1	16891.0
57.5°	12983.2	12843.1	13276.6	13373.0	14137.9	14485.3	16575.7	15769.9	13964.2	15784.5	17442.8
60°	13908.7	13789.0	14143.7	14397.7	15302.8	15767.0	17771.3	16536.3	14494.1	16403.5	17416.6
62.5°	15507.2	15371.4	15367.0	15723.2	16942.1	17482.2	19112.8	17288.1	14704.3	16526.1	16673.5
65°	17847.2	17631.1	17223.9	17393.2	19206.2	19744.9	20612.0	17832.6	14426.9	15869.2	14759.8
67.5°	20124.4	20117.1	19616.4	19963.9	22195.9	22627.9	22319.9	17886.6	13561.3	13581.7	11364.3
70°	22394.4	22423.6	22338.9	23547.6	26235.0	26684.7	24138.8	17161.1	11615.4	9808.2	6808.4
72.5°	24192.8	24185.5	24611.8	27728.4	31477.1	31376.4	25671.6	14962.7	8339.7	5294.6	3253.8
75°	23027.9	22773.9	24043.9	29798.4	34532.4	34040.5	24368.0	10437.4	4328.2	2410.1	1751.7
77.5°	15019.6	15260.5	17124.6	24616.2	30205.6	29607.1	17877.8	4869.8	2039.3	1580.9	1270.0
80°	5439.1	5693.1	8018.5	13943.8	20810.5	20712.7	8803.9	2001.3	1379.5	1194.1	925.5
82.5°	1871.4	1964.9	3163.3	6192.4	11749.7	12187.6	3312.2	1137.2	1002.9	846.7	633.5
85°	734.3	840.8	1446.6	2979.4	5926.7	5970.5	1341.5	680.3	697.8	554.7	347.4
87.5°	278.8	338.7	691.9	1383.9	2706.4	2486.0	480.3	324.1	397.1	329.9	165.0
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°	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5	6605.5
2.5°	6615.7	6646.3	6710.6	6754.4	6801.1	6814.2	6820.1	6831.7	6843.4	6839.0	6840.5
5°	6656.6	6716.4	6820.1	6863.9	6884.3	6860.9	6815.7	6779.2	6752.9	6738.3	6733.9
7.5°	6723.7	6808.4	6919.3	6912.0	6865.3	6761.7	6644.9	6557.3	6484.3	6458.0	6443.4
10°	6812.8	6912.0	6989.4	6906.2	6770.4	6590.9	6415.7	6279.9	6170.5	6128.1	6120.8
12.5°	6926.6	7027.3	7041.9	6865.3	6640.5	6395.3	6157.3	5977.8	5814.3	5761.7	5750.0
15°	7074.1	7168.9	7078.4	6793.8	6479.9	6150.0	5842.0	5598.2	5426.0	5361.7	5338.4
17.5°	7228.8	7319.3	7085.7	6675.5	6269.7	5859.5	5472.7	5223.1	5026.0	4951.6	4942.8
20°	7414.2	7455.1	7055.1	6506.2	5980.7	5482.9	5075.6	4840.6	4735.5	4683.0	4677.1
22.5°	7643.4	7599.6	6985.0	6277.0	5614.3	5047.9	4716.5	4607.0	4580.8	4569.1	4573.5
25°	7885.7	7751.4	6881.4	5977.8	5151.5	4612.9	4453.8	4484.4	4519.5	4515.1	4515.1
27.5°	8152.8	7906.1	6722.3	5580.7	4639.2	4256.7	4275.7	4388.1	4440.6	4439.2	4437.7
30°	8495.9	8081.3	6519.3	5103.4	4160.4	4005.6	4120.9	4258.2	4329.7	4326.8	4328.2
32.5°	8917.8	8274.0	6243.5	4570.6	3814.4	3820.2	3953.1	4088.8	4172.0	4164.7	4166.2
35°	9411.2	8490.0	5869.7	4045.0	3585.2	3672.8	3777.9	3872.8	3951.6	3941.4	3931.2
37.5°	9948.4	8701.7	5373.4	3575.0	3398.4	3535.6	3623.2	3639.2	3675.7	3649.4	3630.5
40°	10459.3	8863.7	4734.0	3189.6	3210.0	3418.8	3475.7	3411.5	3345.8	3337.0	3310.8
42.5°	10904.5	8917.8	4087.4	2881.6	3011.5	3296.2	3331.2	3196.9	3078.7	3023.2	2999.8
45°	11374.6	8936.7	3484.5	2623.2	2820.3	3186.7	3224.6	3045.1	2878.7	2759.0	2719.6
47.5°	11989.1	9074.0	3015.9	2432.0	2674.3	3113.7	3167.7	2923.9	2707.9	2537.1	2500.6
50°	12793.5	9345.5	2634.9	2286.0	2579.4	3065.5	3126.8	2805.7	2567.7	2361.9	2325.4
52.5°	13686.8	9595.1	2326.9	2167.8	2487.5	2980.9	3074.3	2721.0	2436.4	2199.9	2160.5
55°	14311.6	9403.9	2078.7	2045.1	2367.8	2859.7	3001.3	2649.5	2248.1	2042.2	2007.2
57.5°	14431.3	8749.9	1890.4	1918.1	2223.2	2707.9	2888.9	2490.4	2145.9	1973.6	1937.1
60°	14104.3	7839.0	1750.3	1801.4	2068.5	2516.6	2678.7	2378.0	2048.1	1900.6	1870.0
62.5°	13282.5	6906.2	1646.6	1696.3	1924.0	2322.5	2547.3	2259.7	1948.8	1817.4	1786.8
65°	11622.7	5798.2	1547.4	1602.8	1789.7	2154.6	2429.1	2150.2	1851.0	1750.3	1721.1
67.5°	8773.2	4342.8	1453.9	1503.6	1670.0	2008.6	2300.6	2042.2	1756.1	1691.9	1656.8
70°	5166.1	2719.6	1347.4	1399.9	1544.4	1856.8	2163.4	1924.0	1637.9	1608.7	1563.4
72.5°	2404.2	1636.4	1226.2	1277.3	1386.8	1653.9	1986.8	1769.2	1497.7	1433.5	1372.2
75°	1435.0	1197.0	1083.2	1128.4	1205.8	1437.9	1764.9	1611.6	1364.9	1280.2	1216.0
77.5°	1072.9	915.3	925.5	973.7	1036.4	1258.3	1563.4	1487.5	1262.7	1197.0	1153.2
80°	772.2	694.9	754.7	807.3	872.9	1144.5	1497.7	1375.1	1141.5	1054.0	1013.1
82.5°	515.3	499.2	567.9	621.9	686.1	1001.4	1407.2	1204.3	975.1	864.2	773.7
85°	284.7	300.7	382.5	405.8	461.3	705.1	1153.2	967.8	734.3	591.2	564.9
87.5°	118.2	138.7	205.8	198.5	245.2	420.4	759.1	583.9	467.1	348.9	271.5
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)