

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: P318681

Luminaire Tested: **GAN-SA7B-730-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318681
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-SA7B-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 37032 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

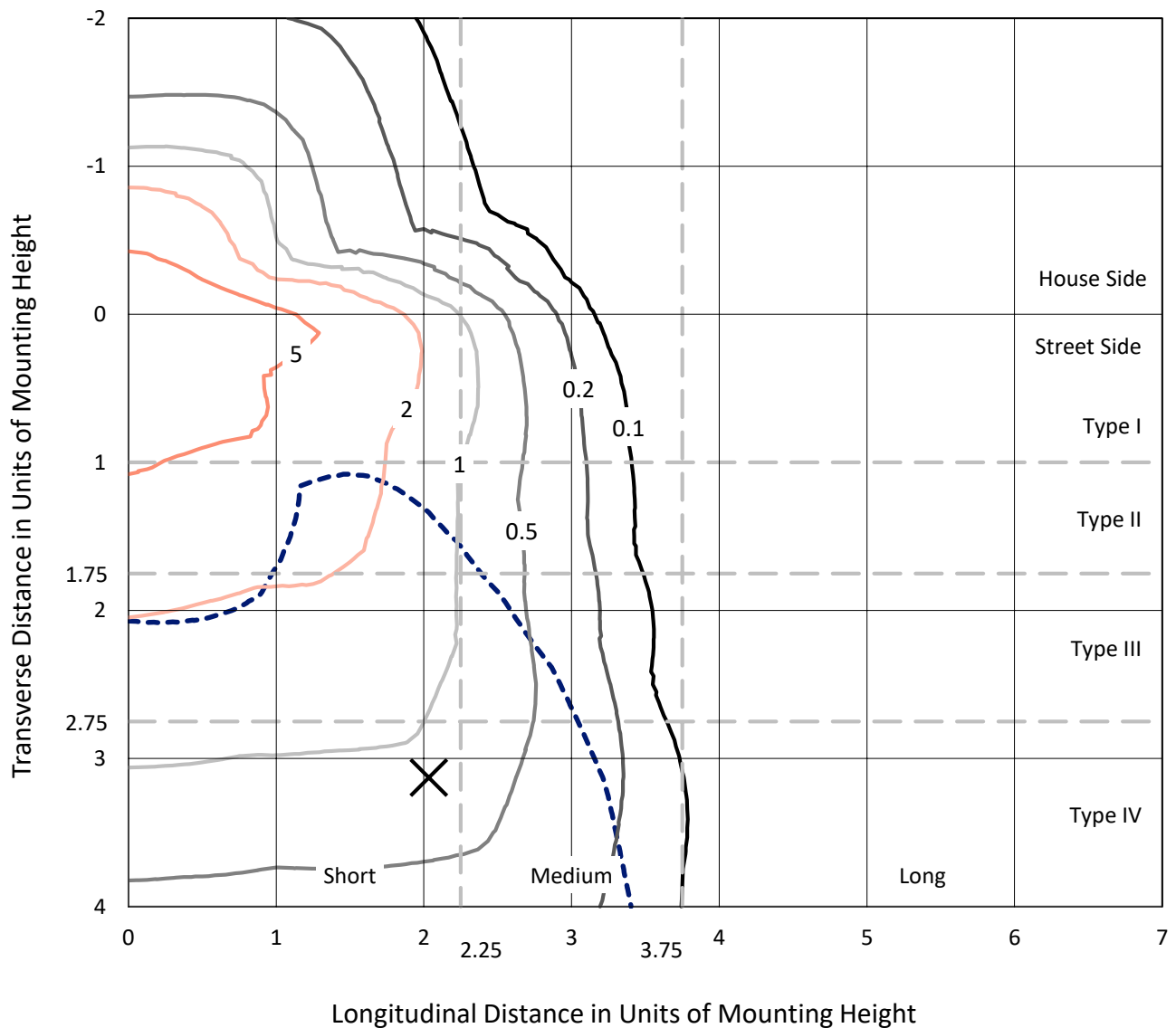
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

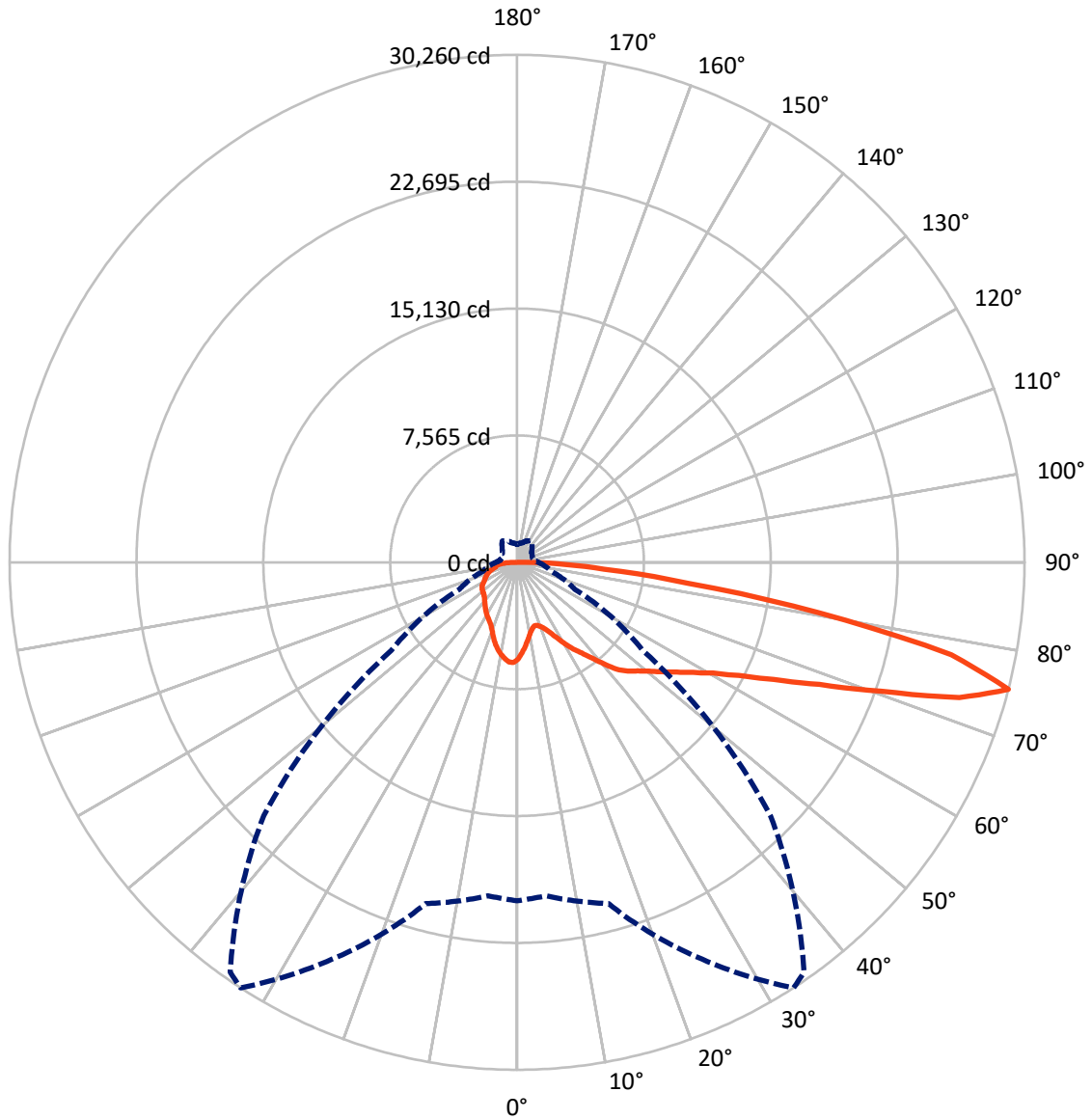
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 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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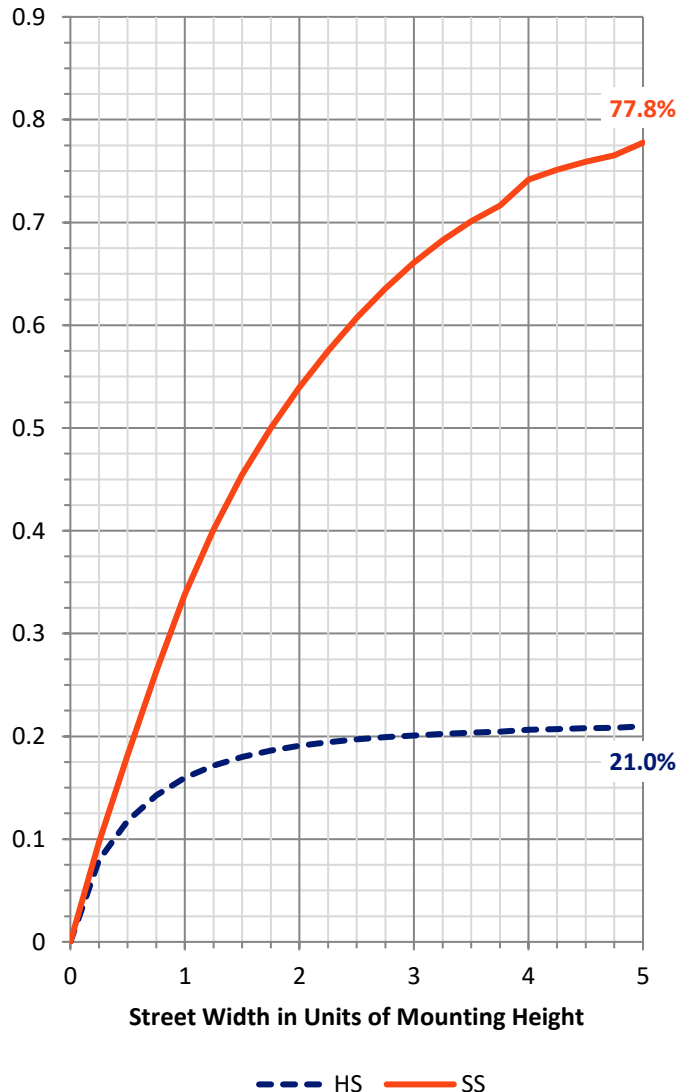
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7951.7	0.0	7951.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	29080.3	0.0	29080.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	37032.0	0.0	37032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.5	1.4
10°-20°	1417.8	3.8
20°-30°	2315.5	6.3
30°-40°	3448.3	9.3
40°-50°	4945.8	13.4
50°-60°	6789.8	18.3
60°-70°	8500.5	23.0
70°-80°	7690.0	20.8
80°-90°	1400.8	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°	37032.0	100.0
0°-180°	37032.0	100.0

Coefficient of Utilization



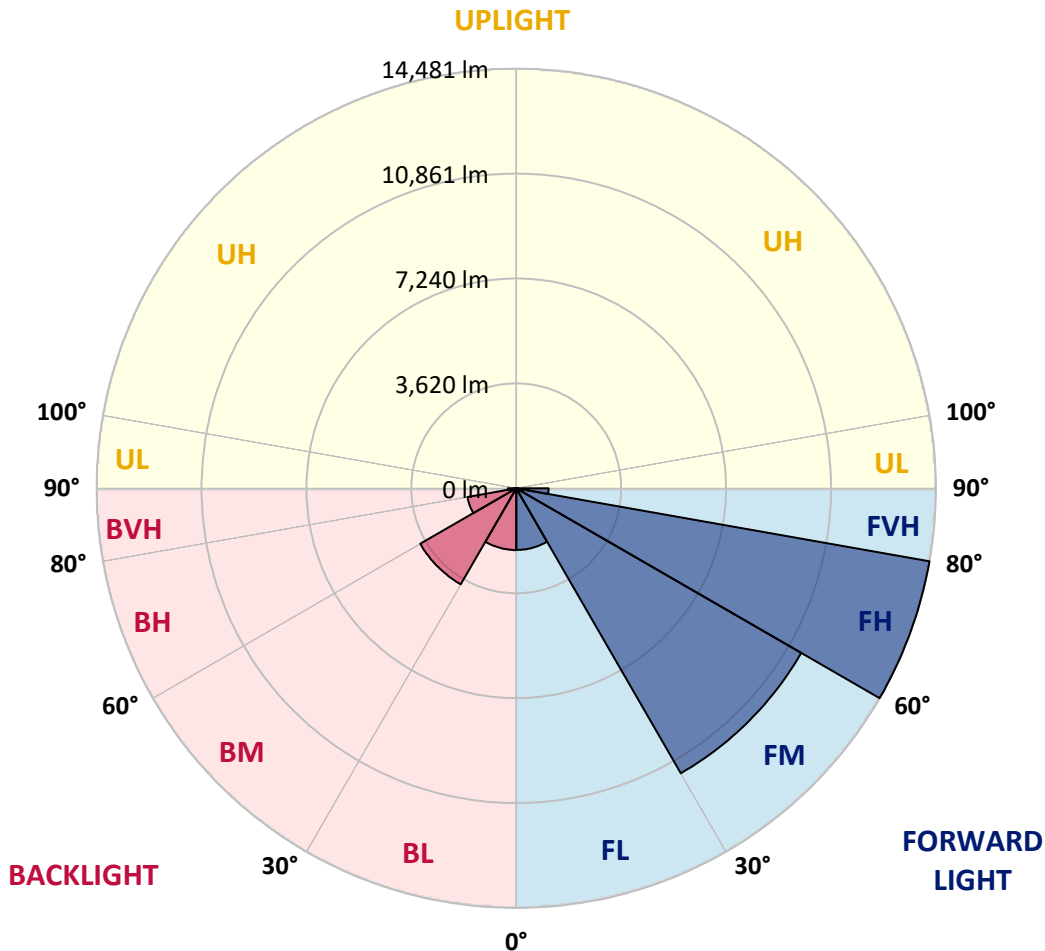
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.9	5.7			
FM (30°-60°)	11356.9	30.7			
FH (60°-80°)	14480.8	39.1			G5
FVH (80°-90°)	1115.6	3.0			G5
BL (0°-30°)	2129.8	5.8	B3/2500		
BM (30°-60°)	3826.9	10.3	B3/5000		
BH (60°-80°)	1709.8	4.6	B3/2500		G3/2500
BVH (80°-90°)	285.2	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°	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3
2.5°	5375.1	5354.7	5393.0	5398.2	5431.4	5444.2	5490.3	5561.9	5620.7	5688.5	5749.9
5°	4887.8	4873.7	4927.4	4965.8	5038.7	5069.4	5178.1	5330.4	5466.0	5619.5	5758.9
7.5°	4424.7	4417.0	4477.1	4564.1	4648.6	4690.8	4878.8	5100.1	5326.5	5574.7	5788.3
10°	4034.5	4032.0	4089.6	4175.3	4299.3	4346.7	4589.7	4881.4	5198.6	5540.1	5838.2
12.5°	3815.8	3824.8	3851.6	3923.3	4038.4	4085.7	4355.6	4698.4	5091.2	5528.6	5911.1
15°	3869.5	3883.6	3837.6	3835.0	3916.9	3954.0	4207.2	4568.0	5014.4	5547.8	6017.3
17.5°	4098.5	4101.1	3979.5	3902.8	3952.7	3971.9	4161.2	4493.8	4969.6	5591.3	6150.3
20°	4420.9	4414.5	4199.6	4071.6	4098.5	4103.6	4226.4	4495.1	4965.8	5666.8	6323.0
22.5°	4848.1	4800.8	4511.7	4337.7	4331.3	4323.6	4394.0	4589.7	5022.1	5789.6	6529.0
25°	5405.8	5361.1	4963.2	4725.3	4674.1	4655.0	4665.2	4791.8	5133.4	5921.3	6759.2
27.5°	6026.2	5948.2	5564.5	5228.0	5121.9	5095.0	5033.6	5077.1	5254.9	6048.0	7033.0
30°	6545.6	6503.4	6168.2	5769.1	5643.8	5605.4	5444.2	5396.9	5430.1	6220.7	7378.3
32.5°	6836.0	6807.8	6604.4	6282.1	6165.7	6111.9	5884.2	5789.6	5711.6	6493.1	7846.5
35°	7187.7	7169.8	7047.0	6812.9	6640.2	6584.0	6407.4	6308.9	6108.1	6867.9	8451.6
37.5°	7635.5	7616.3	7618.8	7429.5	7223.6	7171.1	7054.7	6951.1	6622.3	7360.4	9109.1
40°	8142.0	8104.9	8090.8	8081.9	7951.4	7922.0	7860.6	7719.9	7267.0	7948.9	9757.6
42.5°	8904.4	8772.6	8491.2	8597.4	8726.6	8711.2	8761.1	8559.0	7983.4	8644.7	10390.8
45°	9639.9	9423.8	8937.7	8960.7	9243.4	9329.1	9702.6	9559.3	8759.9	9407.1	11045.8
47.5°	9975.1	9811.3	9398.2	9399.4	9679.6	9857.4	10676.1	10573.7	9576.0	10273.1	11845.2
50°	10349.9	10186.1	9815.2	9954.6	10198.9	10388.3	11616.3	11563.8	10352.4	11221.0	12803.4
52.5°	10759.2	10481.6	10246.3	10495.7	10838.5	11058.5	12557.8	12414.5	11064.9	12175.3	13904.7
55°	10764.3	10688.9	10868.0	11050.9	11563.8	11833.7	13544.0	13165.4	11645.7	13112.9	14801.4
57.5°	11377.1	11254.3	11634.2	11718.6	12388.9	12693.3	14525.1	13819.0	12236.7	13831.8	15285.0
60°	12188.1	12083.2	12394.0	12616.6	13409.7	13816.5	15572.8	14490.6	12701.0	14374.2	15261.9
62.5°	13588.8	13469.8	13466.0	13778.1	14846.2	15319.5	16748.4	15149.4	12885.2	14481.6	14610.8
65°	15639.3	15450.0	15093.1	15241.5	16830.2	17302.2	18062.1	15626.5	12642.2	13906.0	12933.8
67.5°	17634.8	17628.4	17189.7	17494.1	19450.0	19828.6	19558.7	15673.8	11883.6	11901.5	9958.5
70°	19624.0	19649.6	19575.4	20634.5	22989.5	23383.5	21152.6	15038.1	10178.5	8594.8	5966.1
72.5°	21199.9	21193.5	21567.0	24298.1	27583.1	27494.8	22495.7	13111.6	7308.0	4639.6	2851.3
75°	20179.1	19956.6	21069.4	26112.0	30260.4	29829.3	21353.4	9146.2	3792.8	2111.9	1535.0
77.5°	13161.5	13372.6	15006.1	21570.9	26468.9	25944.4	15666.2	4267.4	1787.0	1385.4	1112.9
80°	4766.2	4988.8	7026.6	12218.8	18236.1	18150.3	7714.8	1753.8	1208.8	1046.4	811.0
82.5°	1639.9	1721.8	2772.0	5426.3	10296.2	10679.9	2902.5	996.5	878.8	741.9	555.2
85°	643.4	736.8	1267.7	2610.8	5193.5	5231.9	1175.6	596.1	611.5	486.1	304.4
87.5°	244.3	296.8	606.3	1212.7	2371.6	2178.5	420.9	284.0	347.9	289.1	144.5
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°	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3	5788.3
2.5°	5797.3	5824.1	5880.4	5918.8	5959.7	5971.2	5976.3	5986.6	5996.8	5993.0	5994.3
5°	5833.1	5885.5	5976.3	6014.7	6032.6	6012.2	5972.5	5940.5	5917.5	5904.7	5900.9
7.5°	5891.9	5966.1	6063.3	6056.9	6016.0	5925.2	5822.8	5746.1	5682.1	5659.1	5646.3
10°	5970.0	6056.9	6124.7	6051.8	5932.9	5775.5	5622.0	5503.1	5407.1	5370.0	5363.6
12.5°	6069.7	6158.0	6170.8	6016.0	5819.0	5604.1	5395.6	5238.3	5095.0	5048.9	5038.7
15°	6198.9	6282.1	6202.8	5953.3	5678.3	5389.2	5119.3	4905.7	4754.7	4698.4	4678.0
17.5°	6334.5	6413.8	6209.2	5849.7	5494.1	5134.6	4795.7	4576.9	4404.2	4339.0	4331.3
20°	6497.0	6532.8	6182.3	5701.3	5240.8	4804.6	4447.7	4241.8	4149.7	4103.6	4098.5
22.5°	6697.8	6659.4	6120.9	5500.5	4919.7	4423.4	4133.0	4037.1	4014.1	4003.8	4007.7
25°	6910.2	6792.5	6030.1	5238.3	4514.2	4042.2	3902.8	3929.7	3960.4	3956.5	3956.5
27.5°	7144.2	6928.1	5890.6	4890.3	4065.2	3730.1	3746.7	3845.2	3891.3	3890.0	3888.7
30°	7444.9	7081.6	5712.8	4472.0	3645.7	3510.1	3611.1	3731.4	3794.1	3791.5	3792.8
32.5°	7814.5	7250.4	5471.1	4005.1	3342.5	3347.6	3464.0	3583.0	3655.9	3649.5	3650.8
35°	8246.9	7439.7	5143.6	3544.6	3141.7	3218.4	3310.5	3393.7	3462.8	3453.8	3444.8
37.5°	8717.6	7625.2	4708.7	3132.7	2977.9	3098.2	3174.9	3189.0	3221.0	3198.0	3181.3
40°	9165.4	7767.2	4148.4	2795.0	2812.9	2995.8	3045.7	2989.5	2931.9	2924.2	2901.2
42.5°	9555.5	7814.5	3581.7	2525.1	2639.0	2888.4	2919.1	2801.4	2697.8	2649.2	2628.7
45°	9967.4	7831.2	3053.4	2298.7	2471.4	2792.5	2825.7	2668.4	2522.6	2417.7	2383.1
47.5°	10505.9	7951.4	2642.8	2131.1	2343.5	2728.5	2775.8	2562.2	2372.9	2223.2	2191.2
50°	11210.8	8189.3	2308.9	2003.2	2260.3	2686.3	2740.0	2458.6	2250.1	2069.7	2037.7
52.5°	11993.6	8408.1	2039.0	1899.6	2179.7	2612.1	2694.0	2384.4	2135.0	1927.7	1893.2
55°	12541.1	8240.5	1821.6	1792.1	2074.8	2505.9	2630.0	2321.7	1969.9	1789.6	1758.9
57.5°	12646.0	7667.4	1656.5	1680.8	1948.2	2372.9	2531.5	2182.3	1880.4	1729.5	1697.5
60°	12359.5	6869.2	1533.7	1578.5	1812.6	2205.3	2347.3	2083.8	1794.7	1665.5	1638.6
62.5°	11639.3	6051.8	1442.9	1486.4	1686.0	2035.2	2232.2	1980.2	1707.7	1592.6	1565.7
65°	10184.9	5080.9	1355.9	1404.5	1568.3	1888.1	2128.6	1884.2	1622.0	1533.7	1508.2
67.5°	7687.9	3805.6	1274.1	1317.6	1463.4	1760.2	2016.0	1789.6	1538.9	1482.6	1451.9
70°	4527.0	2383.1	1180.7	1226.7	1353.4	1627.1	1895.8	1686.0	1435.2	1409.7	1370.0
72.5°	2106.8	1434.0	1074.5	1119.3	1215.2	1449.3	1741.0	1550.4	1312.4	1256.2	1202.4
75°	1257.4	1048.9	949.2	988.8	1056.6	1260.0	1546.5	1412.2	1196.0	1121.8	1065.6
77.5°	940.2	802.0	811.0	853.2	908.2	1102.7	1370.0	1303.5	1106.5	1048.9	1010.6
80°	676.7	608.9	661.3	707.4	765.0	1002.9	1312.4	1205.0	1000.3	923.6	887.8
82.5°	451.6	437.5	497.6	544.9	601.2	877.5	1233.1	1055.3	854.5	757.3	678.0
85°	249.4	263.5	335.1	355.6	404.2	617.8	1010.6	848.1	643.4	518.1	495.0
87.5°	103.6	121.5	180.4	174.0	214.9	368.4	665.2	511.7	409.3	305.7	237.9
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)