

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: P317751

Luminaire Tested: **GAN-SA7A-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7A-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33703 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

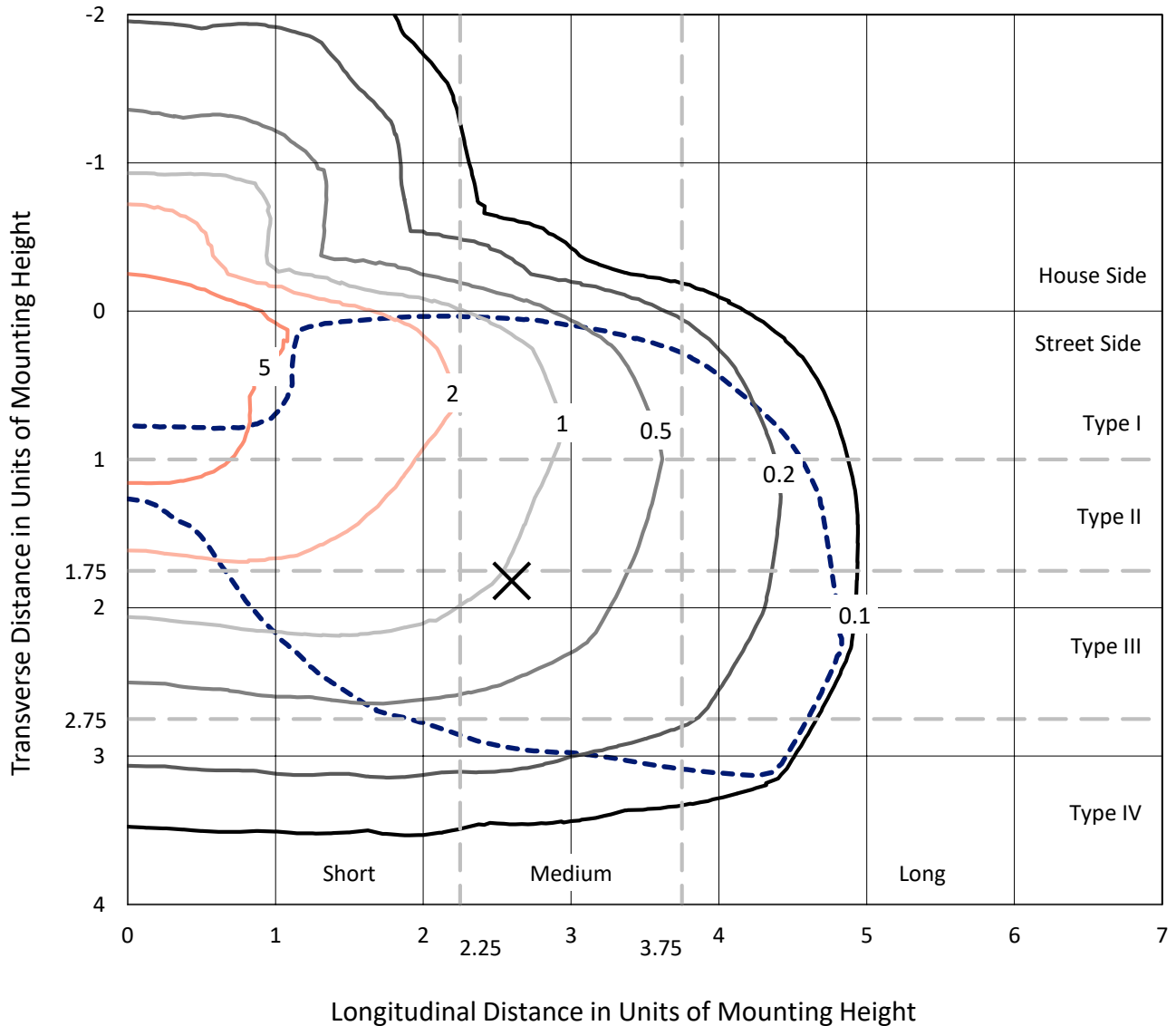
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

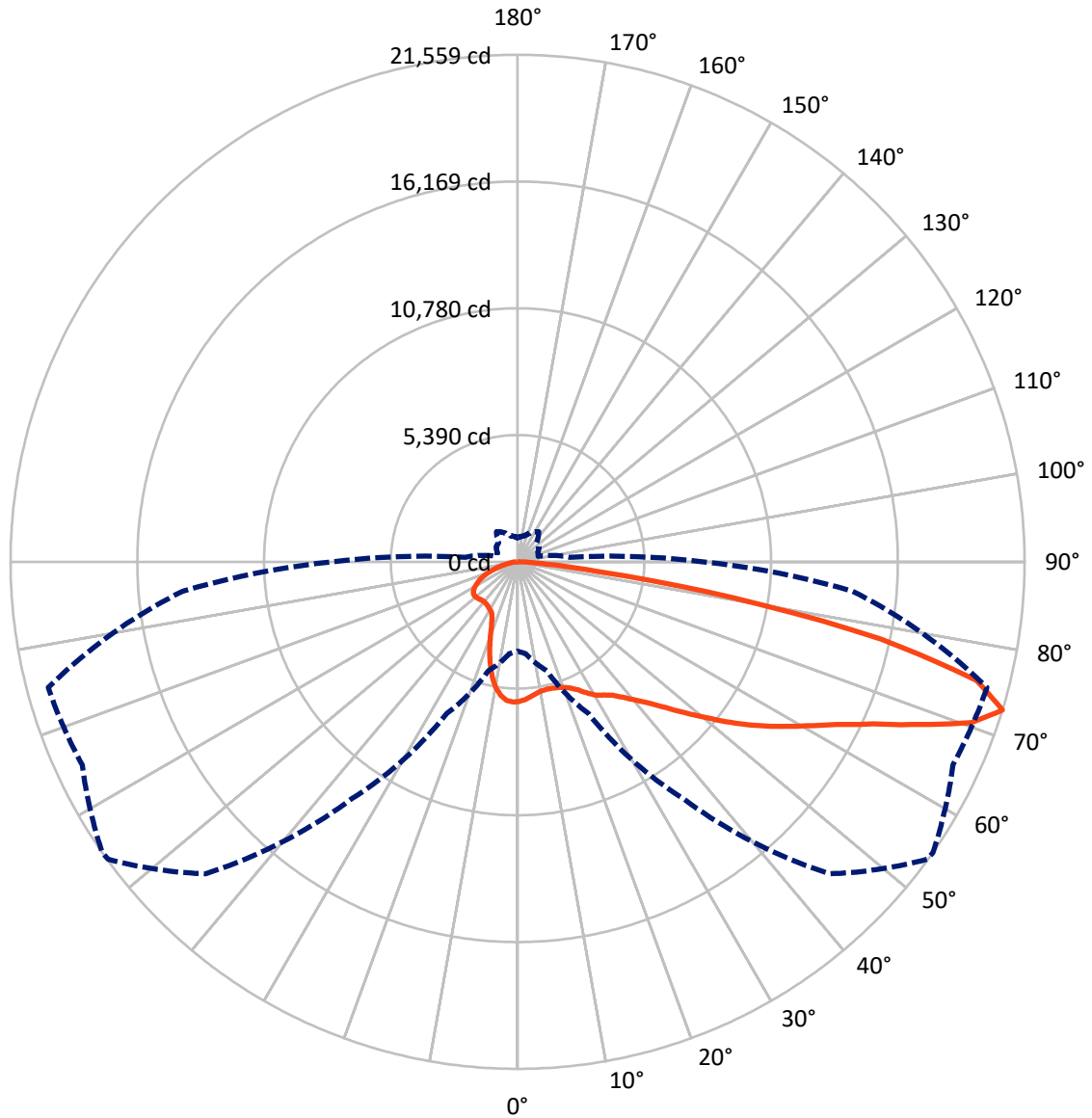
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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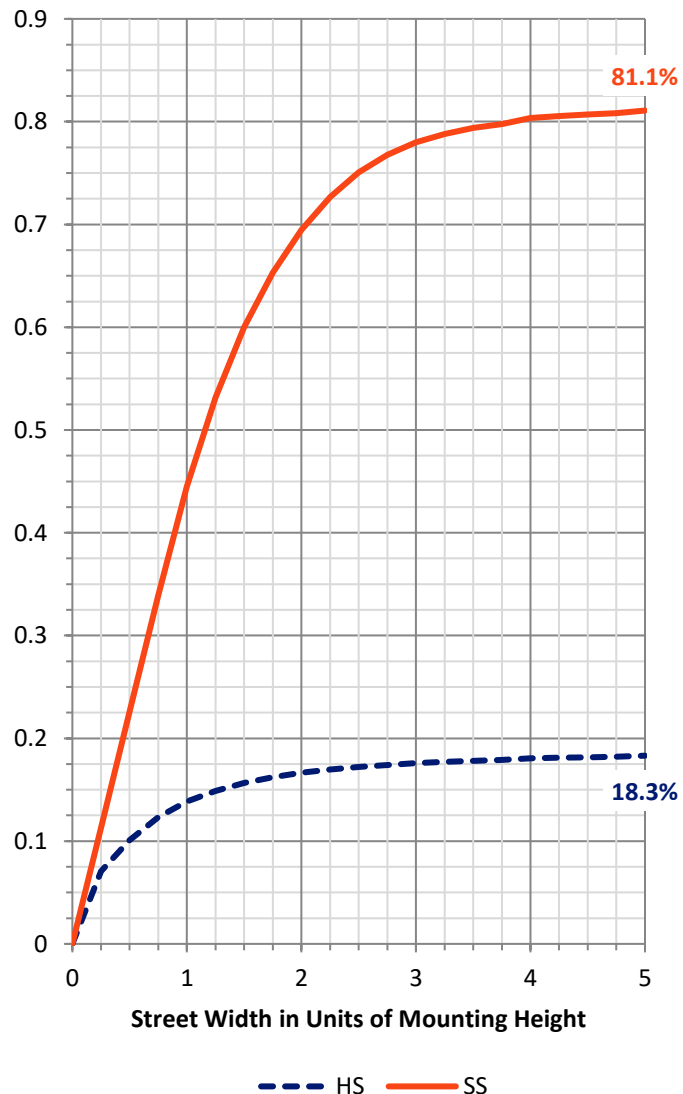
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6264.3	0.0	6264.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27438.7	0.0	27438.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	33703.0	0.0	33703.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.9	1.6
10°-20°	1432.1	4.2
20°-30°	2361.2	7.0
30°-40°	3492.8	10.4
40°-50°	4875.2	14.5
50°-60°	6347.7	18.8
60°-70°	7801.1	23.1
70°-80°	6115.1	18.1
80°-90°	740.0	2.2
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°	33703.0	100.0
0°-180°	33703.0	100.0

Coefficient of Utilization

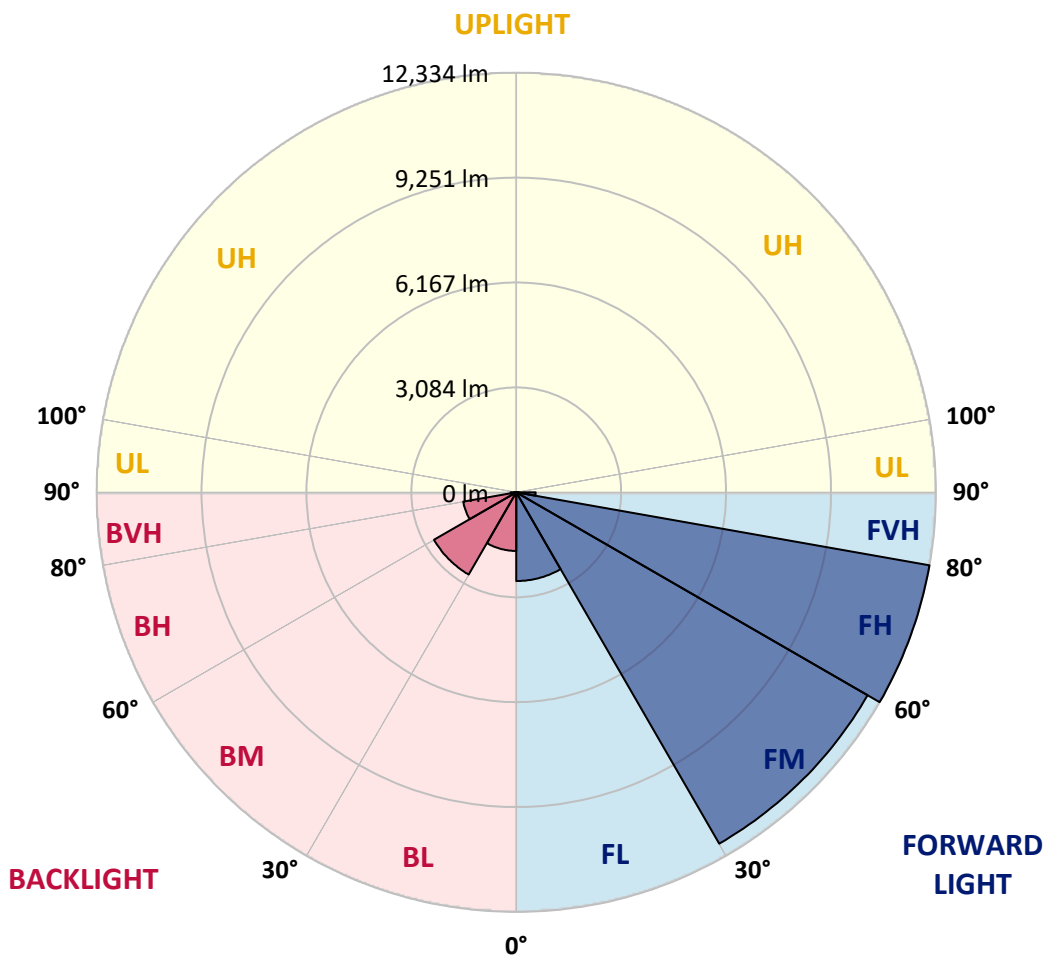


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2607.6	7.7			
FM (30°-60°)	11924.8	35.4			
FH (60°-80°)	12334.2	36.6			G5
FVH (80°-90°)	572.1	1.7			G4/750
BL (0°-30°)	1723.6	5.1	B3/2500		
BM (30°-60°)	2790.8	8.3	B3/5000		
BH (60°-80°)	1582.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	167.9	0.5			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5
2.5°	5751.0	5737.3	5754.4	5778.3	5804.5	5839.8	5860.2	5869.4	5904.6	5918.3	5947.9
5°	5484.6	5477.8	5506.2	5547.2	5605.3	5687.2	5753.2	5765.8	5859.1	5925.1	5985.5
7.5°	5291.1	5291.1	5324.1	5373.0	5437.9	5548.3	5641.7	5658.8	5817.0	5959.3	6070.8
10°	5137.4	5143.1	5181.8	5239.8	5316.1	5433.4	5557.4	5576.8	5805.6	6039.0	6216.6
12.5°	5034.9	5048.6	5083.9	5136.3	5230.7	5373.0	5530.1	5556.3	5829.5	6152.8	6391.9
15°	5099.8	5122.6	5126.0	5147.6	5200.0	5354.8	5546.1	5573.4	5880.7	6268.9	6591.1
17.5°	5384.4	5392.4	5357.1	5311.6	5286.5	5385.6	5593.9	5622.3	5942.2	6383.9	6782.3
20°	5817.0	5812.4	5736.2	5613.2	5485.7	5501.7	5672.4	5702.0	6025.3	6485.2	6973.6
22.5°	6363.4	6347.5	6230.2	6003.7	5786.3	5695.2	5810.2	5835.2	6150.5	6629.8	7178.5
25°	7025.9	6990.6	6835.8	6531.9	6212.0	5977.5	6017.3	6041.2	6332.7	6791.4	7366.3
27.5°	7724.9	7689.6	7492.6	7125.0	6699.2	6333.8	6303.1	6323.6	6539.8	6910.9	7505.2
30°	8455.7	8418.1	8238.3	7826.2	7216.0	6702.6	6569.4	6577.4	6685.6	6975.8	7619.0
32.5°	9189.9	9154.6	8953.2	8475.0	7777.2	7098.8	6761.8	6751.6	6773.2	7043.0	7747.6
35°	9934.4	9948.1	9712.4	9183.1	8398.8	7539.3	6989.5	6967.9	6920.1	7180.7	7929.8
37.5°	10731.3	10722.2	10417.1	9863.8	9048.8	8017.4	7316.2	7312.8	7147.7	7441.4	8215.5
40°	11264.0	11269.7	11084.2	10560.5	9705.6	8546.8	7735.1	7727.1	7510.9	7831.9	8590.0
42.5°	11472.3	11509.9	11557.7	11225.3	10393.2	9160.3	8234.9	8223.5	8017.4	8391.9	9030.6
45°	11487.1	11562.3	11858.2	11816.1	11089.8	9862.7	8873.5	8841.6	8693.6	9136.4	9556.5
47.5°	11359.6	11437.0	11928.8	12167.9	11712.5	10603.8	9620.2	9595.2	9467.7	10067.6	10125.7
50°	11080.7	11154.7	11783.1	12339.8	12224.8	11316.4	10480.8	10414.8	10346.5	11143.3	10776.8
52.5°	10558.2	10700.5	11588.4	12380.7	12531.0	11949.3	11385.8	11342.6	11380.1	12278.3	11429.1
55°	9320.8	9480.2	11086.4	12346.6	12757.5	12480.9	12290.8	12288.5	12483.2	13469.0	12129.2
57.5°	8627.6	8740.3	10064.2	12288.5	13026.2	13009.1	13186.7	13208.3	13587.4	14765.6	12862.3
60°	8236.0	8354.4	9546.2	12073.4	13442.8	13692.1	14100.8	14144.0	14709.8	16201.1	13744.5
62.5°	7879.7	8009.5	9225.2	11635.1	13933.5	14668.8	15195.9	15234.6	15898.3	17676.4	14597.1
65°	7270.7	7417.5	8755.1	11347.1	14379.7	15942.6	16588.1	16614.3	17263.1	19222.2	15249.4
67.5°	6410.1	6544.4	7868.3	10710.8	14709.8	17489.7	18439.1	18453.9	18616.6	20313.9	15582.9
70°	5404.9	5456.1	6604.7	9397.1	14319.4	18936.5	20467.6	20471.0	19850.6	21012.9	15528.3
72.5°	3797.5	3918.2	4794.7	7113.6	12305.6	18760.1	21520.6	21559.3	20424.3	20660.0	14287.5
75°	2329.1	2456.6	3007.5	4310.9	7806.8	14754.2	19883.6	20152.3	19348.6	18420.8	11671.5
77.5°	1557.3	1605.1	1962.5	2513.5	3536.9	8488.7	15287.0	15792.4	16073.6	13433.7	7464.2
80°	868.6	959.6	1301.1	1561.8	1573.2	3372.9	9166.0	9284.4	8942.9	5349.1	2302.9
82.5°	459.9	510.0	868.6	917.5	858.3	1129.2	3416.2	3419.6	2857.3	1434.3	684.2
85°	356.3	398.4	595.4	560.1	438.3	500.9	1127.0	1188.4	972.2	587.4	223.1
87.5°	177.6	220.8	404.1	355.2	171.9	143.4	403.0	430.3	383.6	229.9	80.8
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°	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5	5944.5
2.5°	5959.3	5969.5	5982.0	5968.4	5963.8	5945.6	5914.9	5908.1	5892.1	5893.3	5902.4
5°	6011.6	6028.7	6021.9	5969.5	5906.9	5819.3	5728.2	5650.8	5599.6	5596.1	5592.7
7.5°	6111.8	6123.2	6069.7	5920.6	5745.3	5542.6	5351.4	5184.1	5082.8	5057.7	5052.0
10°	6268.9	6266.6	6119.8	5819.3	5469.8	5107.8	4800.4	4568.2	4432.8	4392.9	4382.7
12.5°	6444.2	6418.0	6136.9	5634.9	5080.5	4578.5	4189.1	3930.7	3789.6	3744.0	3732.7
15°	6625.2	6560.3	6094.7	5359.4	4602.4	4008.1	3599.5	3360.4	3284.2	3259.1	3254.6
17.5°	6793.7	6668.5	5974.1	4986.0	4057.1	3440.1	3121.4	3025.7	3044.0	3077.0	3078.1
20°	6958.8	6741.3	5780.6	4514.7	3482.2	2972.2	2864.1	2934.7	3021.2	3088.4	3097.5
22.5°	7121.5	6792.6	5531.3	3970.6	2967.7	2709.3	2785.6	2914.2	3013.2	3086.1	3098.6
25°	7258.1	6805.1	5187.5	3390.0	2610.2	2610.2	2748.0	2869.8	2967.7	3039.4	3051.9
27.5°	7308.2	6720.8	4702.5	2852.7	2430.4	2564.7	2695.6	2796.9	2880.0	2956.3	2970.0
30°	7327.6	6564.9	4142.5	2421.3	2356.4	2515.8	2625.0	2711.6	2790.1	2861.8	2874.3
32.5°	7331.0	6377.1	3548.2	2176.5	2305.2	2464.5	2537.4	2613.7	2697.9	2726.4	2730.9
35°	7352.6	6155.1	2922.2	2051.3	2257.4	2416.7	2474.8	2529.4	2392.8	2403.1	2412.2
37.5°	7415.2	5935.4	2398.5	1980.7	2226.6	2391.7	2461.1	2263.0	2156.0	2131.0	2127.6
40°	7532.5	5700.9	2010.3	1923.8	2215.2	2404.2	2373.5	2112.8	1928.4	1790.6	1770.1
42.5°	7695.3	5448.2	1762.2	1886.3	2223.2	2464.5	2251.7	1968.2	1662.0	1573.2	1561.8
45°	7878.5	5182.9	1627.8	1860.1	2250.5	2511.2	2226.6	1775.8	1537.9	1470.8	1465.1
47.5°	8056.1	4858.5	1558.4	1848.7	2288.1	2473.6	2120.8	1716.6	1478.7	1443.4	1446.8
50°	8259.9	4565.9	1516.3	1836.2	2321.1	2449.7	2001.2	1685.9	1456.0	1499.2	1544.7
52.5°	8431.8	4263.1	1478.7	1811.1	2333.6	2407.6	1970.5	1691.6	1456.0	1539.1	1582.3
55°	8635.6	4034.3	1435.5	1758.8	2309.7	2288.1	1948.9	1725.7	1473.0	1420.7	1425.2
57.5°	8898.5	3959.2	1387.7	1676.8	2230.0	2113.9	1938.6	1758.8	1462.8	1429.8	1441.2
60°	9262.8	4038.9	1368.3	1569.8	2106.0	1977.3	1939.8	1741.7	1391.1	1334.2	1335.3
62.5°	9610.0	4127.7	1367.2	1502.6	1953.4	1855.5	1913.6	1685.9	1354.6	1321.6	1334.2
65°	9723.8	4037.7	1312.5	1427.5	1781.5	1709.8	1865.8	1626.7	1327.3	1277.2	1275.0
67.5°	9571.3	3758.8	1202.1	1305.7	1584.6	1540.2	1803.2	1556.1	1284.1	1243.1	1236.3
70°	9118.2	3136.2	1065.5	1145.2	1360.3	1348.9	1704.1	1474.2	1226.0	1190.7	1161.1
72.5°	7899.0	2234.6	898.2	952.8	1107.6	1144.0	1567.5	1367.2	1144.0	1067.8	1022.2
75°	6487.5	1654.0	737.7	749.0	841.2	940.3	1379.7	1241.9	1047.3	917.5	882.2
77.5°	3972.9	1012.0	587.4	591.9	603.3	750.2	1136.1	1101.9	924.3	765.0	739.9
80°	1286.3	552.1	424.6	446.2	412.1	549.8	878.8	938.0	793.4	639.8	612.4
82.5°	489.5	322.2	286.9	301.7	285.7	368.8	640.9	751.3	650.0	525.9	428.0
85°	236.8	182.1	169.6	190.1	176.4	189.0	409.8	553.2	492.9	342.6	318.7
87.5°	84.2	80.8	64.9	87.7	75.1	67.2	125.2	278.9	325.6	235.6	210.6
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)