

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: P317821

Luminaire Tested: **GAN-SA7D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317821
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-SA7D-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56113 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

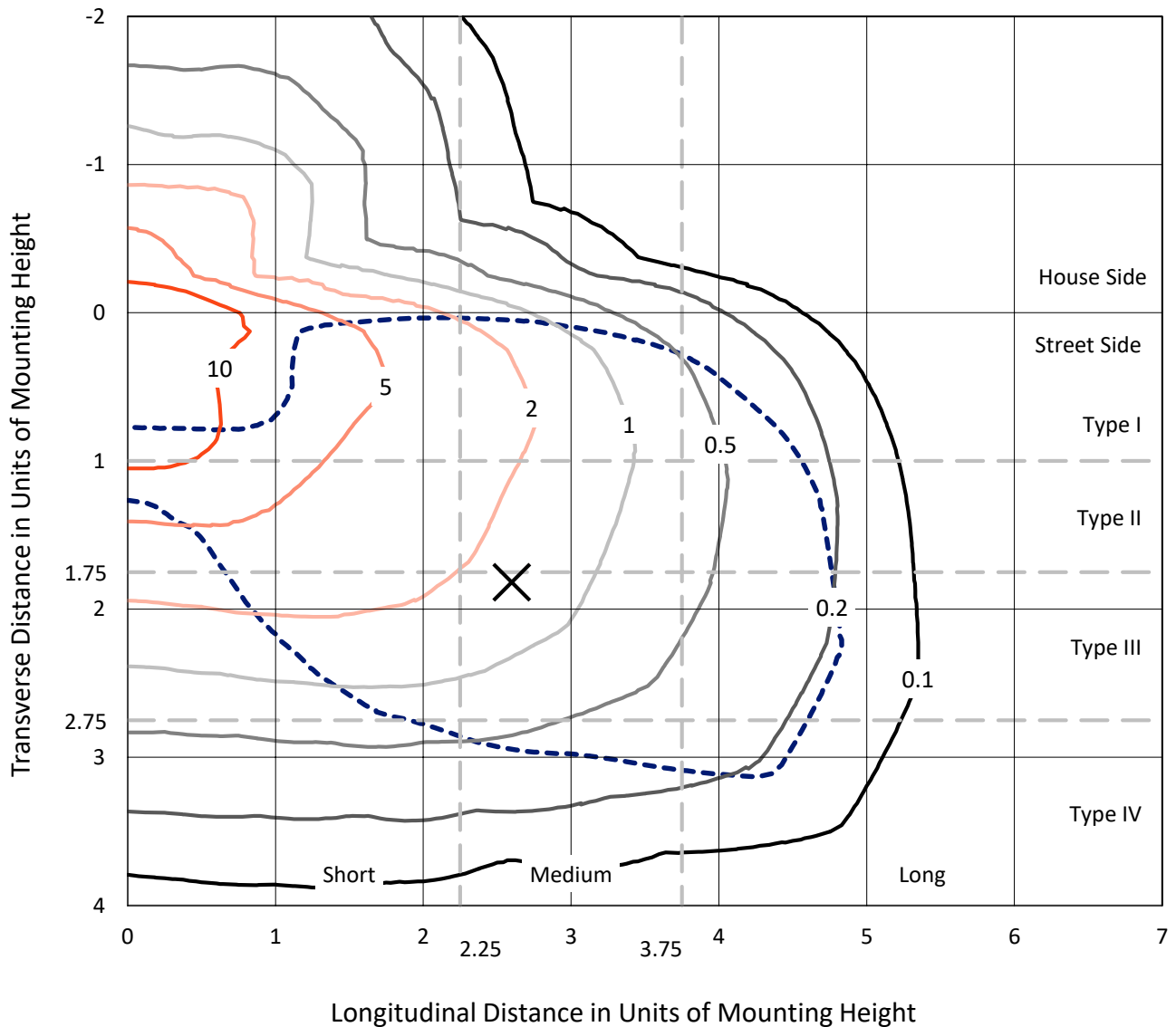
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

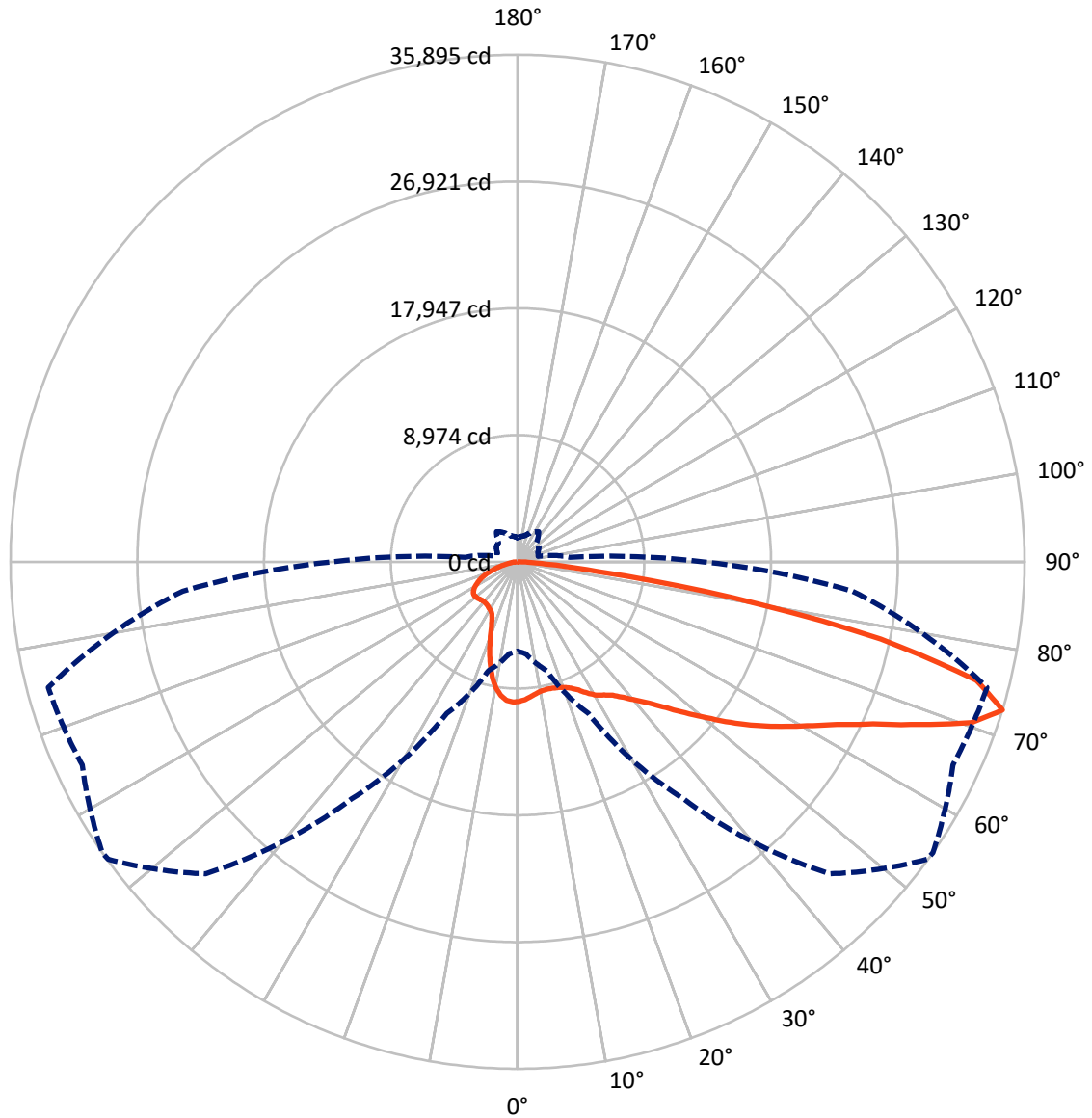
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.9 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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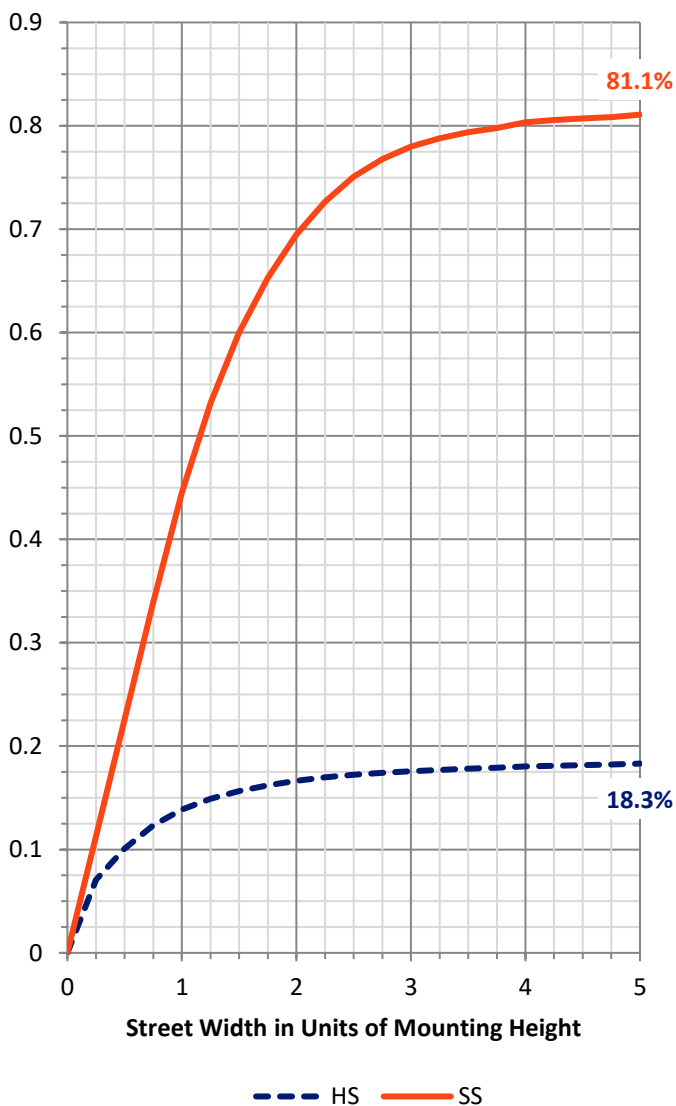
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10429.6	0.0	10429.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	45683.4	0.0	45683.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	56113.0	0.0	56113.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	895.6	1.6
10°-20°	2384.3	4.2
20°-30°	3931.2	7.0
30°-40°	5815.2	10.4
40°-50°	8116.8	14.5
50°-60°	10568.4	18.8
60°-70°	12988.2	23.1
70°-80°	10181.2	18.1
80°-90°	1232.1	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°	56113.0	100.0
0°-180°	56113.0	100.0

Coefficient of Utilization

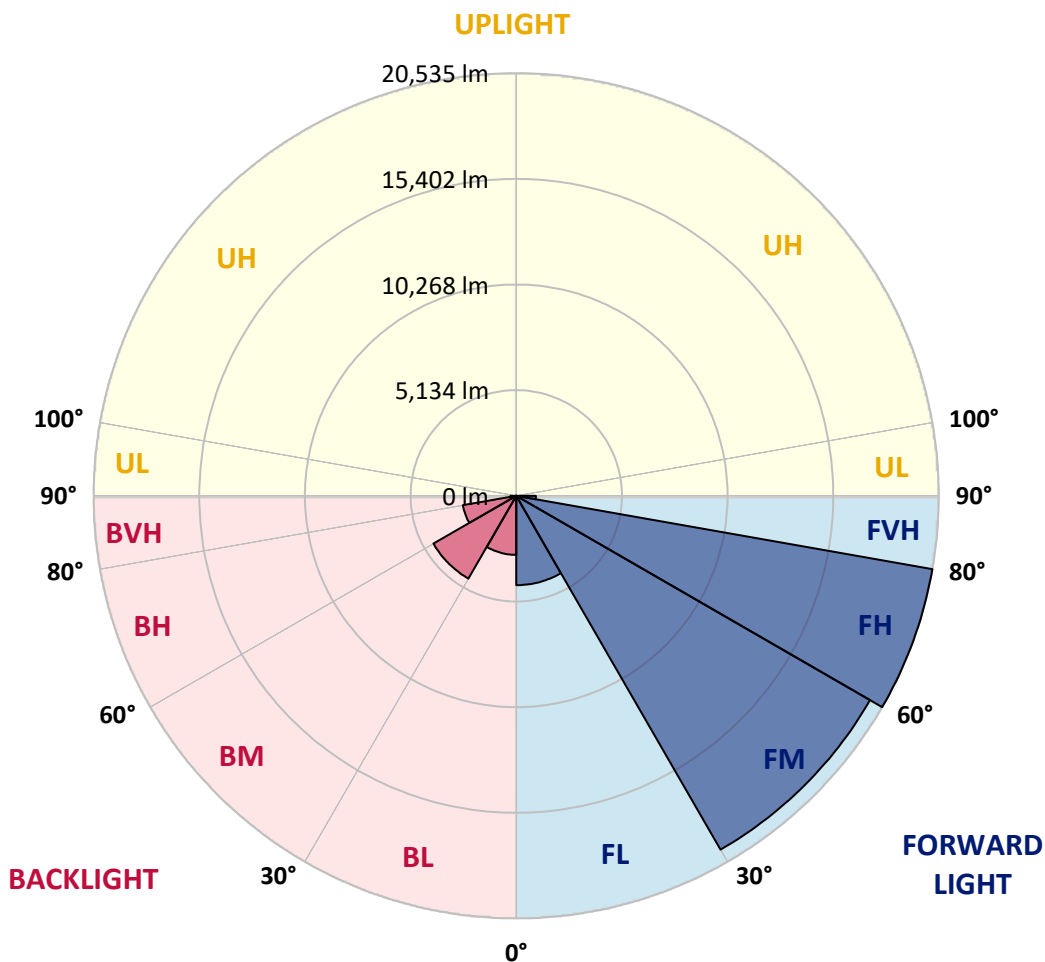


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4341.5	7.7			
FM (30°-60°)	19853.9	35.4			
FH (60°-80°)	20535.5	36.6			G5
FVH (80°-90°)	952.6	1.7			G5
BL (0°-30°)	2869.6	5.1	B4/5000		
BM (30°-60°)	4646.5	8.3	B3/5000		
BH (60°-80°)	2633.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	279.5	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1
2.5°	9574.9	9552.2	9580.6	9620.4	9664.0	9722.8	9756.9	9772.0	9830.8	9853.5	9902.8
5°	9131.4	9120.1	9167.4	9235.7	9332.3	9468.8	9578.7	9599.6	9755.0	9864.9	9965.4
7.5°	8809.2	8809.2	8864.2	8945.7	9053.7	9237.6	9393.0	9421.4	9684.9	9921.8	10107.5
10°	8553.4	8562.9	8627.3	8724.0	8850.9	9046.1	9252.7	9285.0	9665.9	10054.4	10350.1
12.5°	8382.8	8405.5	8464.3	8551.5	8708.8	8945.7	9207.2	9250.8	9705.7	10244.0	10642.0
15°	8490.8	8528.7	8534.4	8570.4	8657.6	8915.4	9233.8	9279.3	9791.0	10437.3	10973.6
17.5°	8964.7	8977.9	8919.2	8843.4	8801.7	8966.5	9313.4	9360.8	9893.3	10628.7	11292.0
20°	9684.9	9677.3	9550.3	9345.6	9133.3	9159.9	9444.2	9493.4	10031.7	10797.4	11610.5
22.5°	10594.6	10568.1	10372.8	9995.7	9633.7	9482.1	9673.5	9715.2	10240.2	11038.1	11951.6
25°	11697.6	11638.9	11381.1	10875.1	10342.5	9952.1	10018.4	10058.2	10543.4	11307.2	12264.3
27.5°	12861.3	12802.6	12474.7	11862.5	11153.7	10545.3	10494.1	10528.3	10888.4	11506.2	12495.5
30°	14078.1	14015.6	13716.1	13030.0	12014.1	11159.4	10937.6	10950.9	11130.9	11614.2	12685.1
32.5°	15300.6	15241.8	14906.3	14110.3	12948.5	11818.9	11257.9	11240.9	11276.9	11726.1	12899.2
35°	16540.1	16562.8	16170.5	15289.2	13983.3	12552.4	11637.0	11601.0	11521.4	11955.4	13202.5
37.5°	17866.8	17851.6	17343.7	16422.6	15065.5	13348.4	12180.9	12175.2	11900.4	12389.4	13678.2
40°	18753.7	18763.2	18454.3	17582.5	16159.1	14229.7	12878.4	12865.1	12505.0	13039.5	14301.7
42.5°	19100.6	19163.1	19242.7	18689.3	17303.9	15251.3	13710.4	13691.5	13348.4	13972.0	15035.2
45°	19125.2	19250.3	19743.1	19673.0	18463.8	16420.7	14773.7	14720.6	14474.2	15211.5	15910.8
47.5°	18912.9	19041.8	19860.6	20258.6	19500.5	17654.5	16017.0	15975.3	15763.0	16761.8	16858.5
50°	18448.6	18571.8	19618.0	20544.8	20353.4	18840.9	17449.8	17339.9	17226.2	18552.8	17942.6
52.5°	17578.7	17815.6	19293.9	20613.0	20863.2	19894.7	18956.5	18884.5	18947.1	20442.4	19028.6
55°	15518.5	15783.8	18458.1	20556.2	21240.3	20779.8	20463.3	20459.5	20783.6	22424.9	20194.2
57.5°	14364.3	14551.9	16756.1	20459.5	21687.6	21659.2	21954.9	21990.9	22622.0	24583.6	21414.7
60°	13712.3	13909.4	15893.8	20101.3	22381.3	22796.4	23476.8	23548.8	24490.7	26973.6	22883.5
62.5°	13119.1	13335.2	15359.3	19371.6	23198.2	24422.5	25300.0	25364.5	26469.4	29429.8	24303.1
65°	12105.1	12349.6	14576.6	18892.1	23941.1	26543.3	27617.9	27661.5	28741.8	32003.6	25389.1
67.5°	10672.3	10895.9	13100.1	17832.6	24490.7	29119.0	30699.7	30724.3	30995.3	33821.2	25944.4
70°	8998.8	9084.1	10996.4	15645.5	23840.7	31527.9	34077.0	34082.7	33049.8	34984.9	25853.4
72.5°	6322.6	6523.5	7982.9	11843.6	20487.9	31234.1	35830.2	35894.6	34005.0	34397.3	23787.6
75°	3877.7	4090.0	5007.3	7177.4	12997.8	24564.7	33104.8	33552.1	32214.0	30669.3	19432.3
77.5°	2592.7	2672.3	3267.5	4184.8	5888.6	14133.1	25451.6	26293.1	26761.3	22366.1	12427.3
80°	1446.1	1597.7	2166.3	2600.3	2619.3	5615.7	15260.8	15457.9	14889.3	8905.9	3834.1
82.5°	765.7	849.1	1446.1	1527.6	1429.0	1880.1	5687.7	5693.4	4757.1	2388.0	1139.1
85°	593.2	663.3	991.2	932.5	729.7	833.9	1876.3	1978.7	1618.6	978.0	371.5
87.5°	295.7	367.7	672.8	591.3	286.2	238.8	670.9	716.4	638.7	382.8	134.6
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°	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1	9897.1
2.5°	9921.8	9938.8	9959.7	9936.9	9929.3	9899.0	9847.8	9836.5	9809.9	9811.8	9827.0
5°	10008.9	10037.4	10026.0	9938.8	9834.6	9688.6	9537.0	9408.1	9322.9	9317.2	9311.5
7.5°	10175.7	10194.7	10105.6	9857.3	9565.5	9228.1	8909.7	8631.1	8462.4	8420.7	8411.2
10°	10437.3	10433.5	10189.0	9688.6	9106.8	8504.1	7992.4	7605.7	7380.2	7313.9	7296.8
12.5°	10729.2	10685.6	10217.4	9381.6	8458.6	7622.8	6974.6	6544.4	6309.4	6233.6	6214.6
15°	11030.5	10922.5	10147.3	8923.0	7662.6	6673.3	5992.9	5594.9	5467.9	5426.2	5418.6
17.5°	11311.0	11102.5	9946.4	8301.3	6754.8	5727.5	5196.8	5037.6	5068.0	5122.9	5124.8
20°	11585.8	11223.8	9624.2	7516.7	5797.6	4948.6	4768.5	4886.0	5030.1	5141.9	5157.0
22.5°	11856.8	11309.1	9209.1	6610.7	4941.0	4510.8	4637.7	4851.9	5016.8	5138.1	5158.9
25°	12084.3	11330.0	8636.8	5644.1	4345.9	4345.9	4575.2	4778.0	4941.0	5060.4	5081.2
27.5°	12167.7	11189.7	7829.4	4749.6	4046.4	4270.1	4488.0	4656.7	4795.0	4922.0	4944.8
30°	12199.9	10930.1	6896.9	4031.2	3923.2	4188.6	4370.5	4514.5	4645.3	4764.7	4785.6
32.5°	12205.6	10617.3	5907.6	3623.8	3837.9	4103.3	4224.6	4351.6	4491.8	4539.2	4546.8
35°	12241.6	10247.8	4865.2	3415.3	3758.3	4023.7	4120.3	4211.3	3983.9	4000.9	4016.1
37.5°	12345.8	9882.0	3993.3	3297.8	3707.2	3982.0	4097.6	3767.8	3589.7	3548.0	3542.3
40°	12541.0	9491.5	3347.1	3203.0	3688.2	4002.8	3951.6	3517.6	3210.6	2981.3	2947.2
42.5°	12812.1	9070.8	2933.9	3140.5	3701.5	4103.3	3748.9	3276.9	2767.1	2619.3	2600.3
45°	13117.2	8629.2	2710.2	3096.9	3747.0	4181.0	3707.2	2956.6	2560.5	2448.7	2439.2
47.5°	13412.9	8089.0	2594.6	3077.9	3809.5	4118.4	3530.9	2858.1	2462.0	2403.2	2408.9
50°	13752.1	7601.9	2524.5	3057.1	3864.5	4078.6	3331.9	2806.9	2424.1	2496.1	2571.9
52.5°	14038.3	7097.8	2462.0	3015.4	3885.3	4008.5	3280.7	2816.4	2424.1	2562.4	2634.4
55°	14377.6	6716.9	2389.9	2928.2	3845.5	3809.5	3244.7	2873.2	2452.5	2365.3	2372.9
57.5°	14815.4	6591.8	2310.3	2791.7	3712.8	3519.5	3227.7	2928.2	2435.4	2380.5	2399.4
60°	15421.9	6724.4	2278.1	2613.6	3506.3	3292.1	3229.5	2899.8	2316.0	2221.3	2223.2
62.5°	15999.9	6872.3	2276.2	2501.8	3252.3	3089.3	3186.0	2806.9	2255.4	2200.4	2221.3
65°	16189.4	6722.5	2185.3	2376.7	2966.1	2846.7	3106.4	2708.3	2209.9	2126.5	2122.7
67.5°	15935.5	6258.2	2001.4	2173.9	2638.2	2564.3	3002.1	2590.8	2137.9	2069.6	2058.3
70°	15181.2	5221.5	1774.0	1906.6	2264.9	2245.9	2837.2	2454.4	2041.2	1982.5	1933.2
72.5°	13151.3	3720.4	1495.4	1586.3	1844.1	1904.8	2609.8	2276.2	1904.8	1777.8	1702.0
75°	10801.2	2753.8	1228.1	1247.1	1400.6	1565.5	2297.1	2067.7	1743.7	1527.6	1468.8
77.5°	6614.5	1684.9	978.0	985.5	1004.5	1249.0	1891.5	1834.6	1539.0	1273.6	1231.9
80°	2141.7	919.2	706.9	742.9	686.1	915.4	1463.2	1561.7	1321.0	1065.1	1019.7
82.5°	815.0	536.4	477.6	502.2	475.7	614.1	1067.0	1250.9	1082.2	875.6	712.6
85°	394.2	303.2	282.4	316.5	293.8	314.6	682.3	921.1	820.7	570.5	530.7
87.5°	140.3	134.6	108.0	145.9	125.1	111.8	208.5	464.3	542.0	392.3	350.6
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)