

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: P317484

Luminaire Tested: **GAN-SA0B-750-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0B-750-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58928 lumens
Efficiency: N/A
Efficacy: 140.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

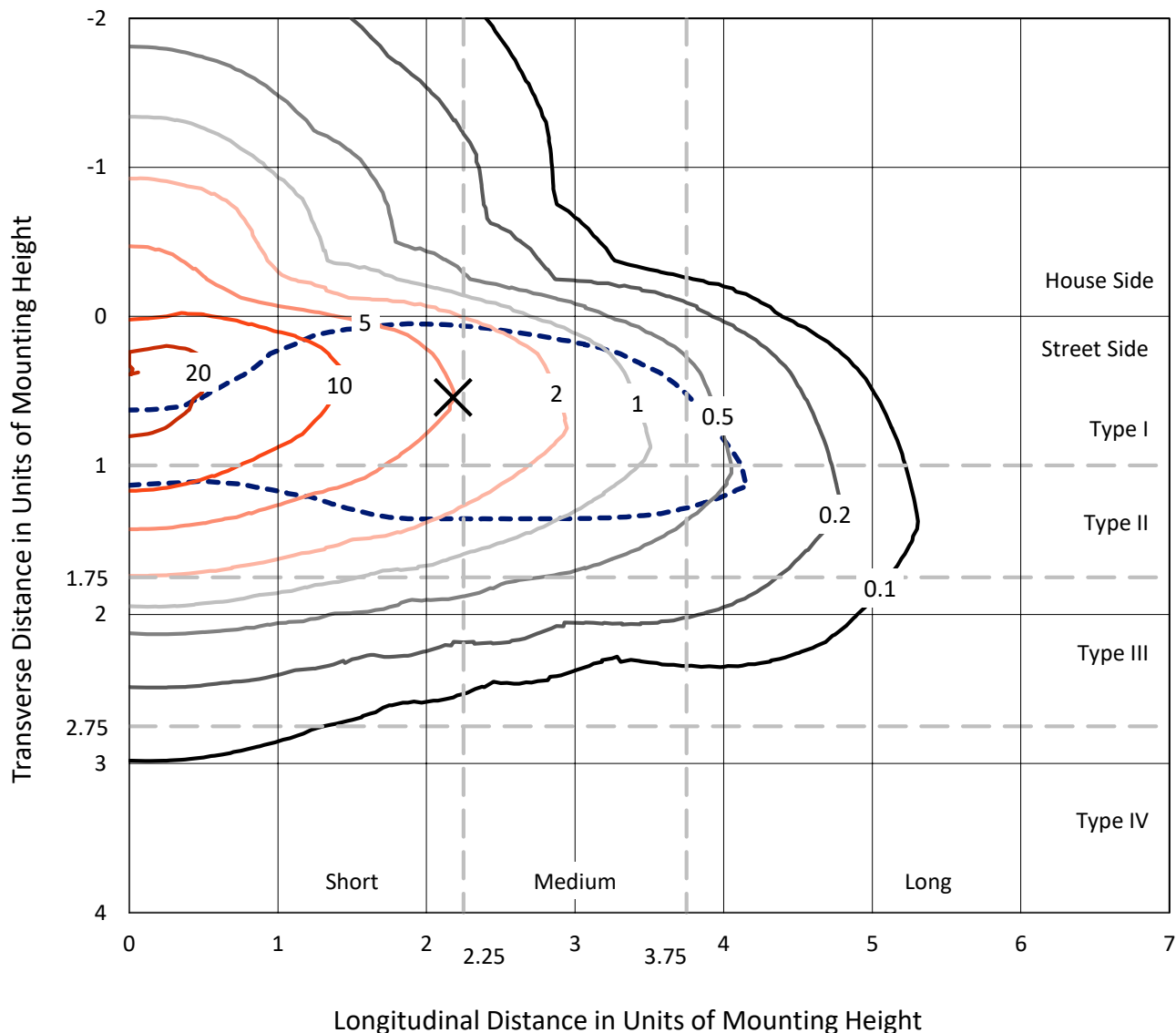
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

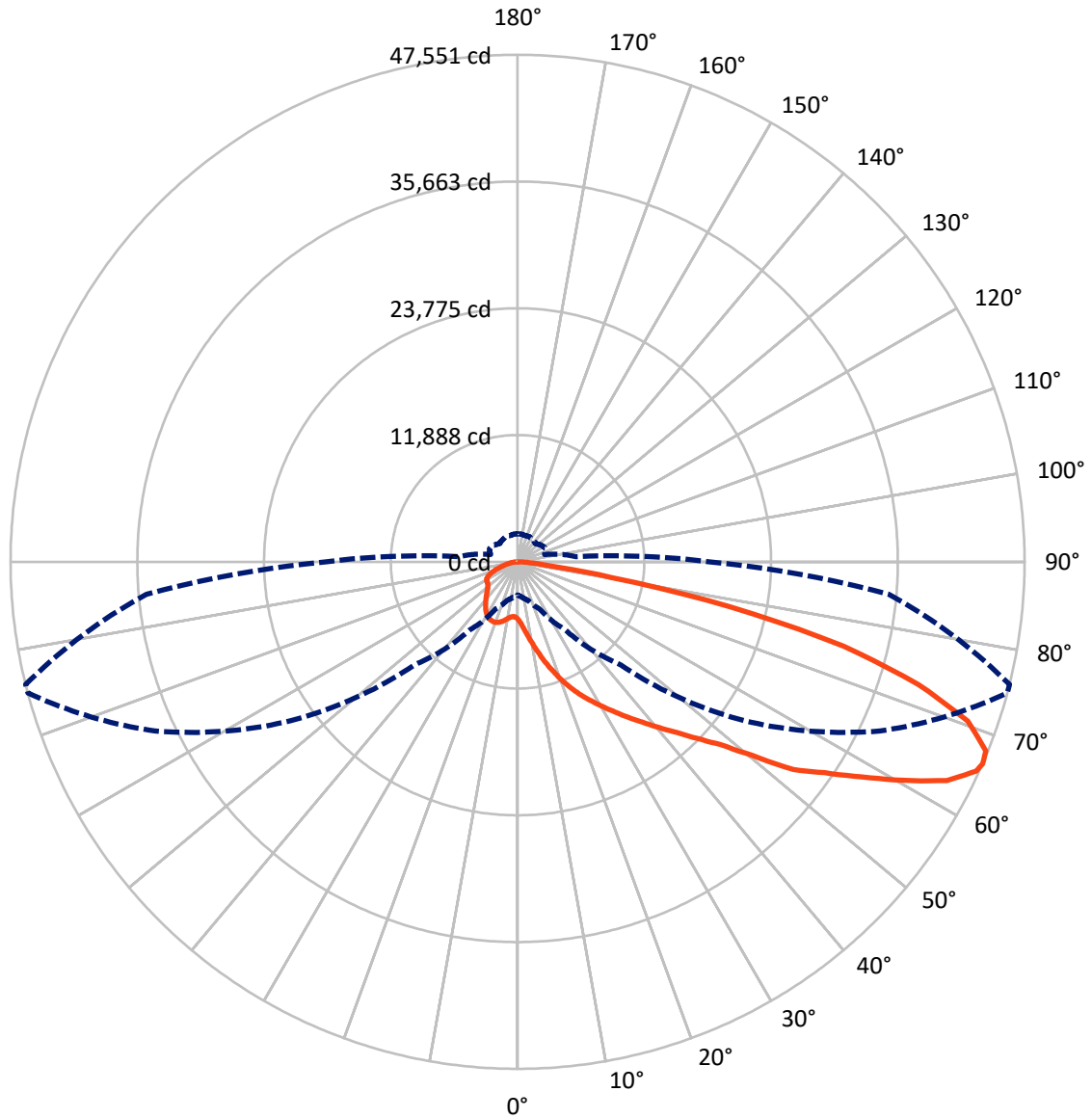
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - Horizontal Cone Through 66-Deg Vertical

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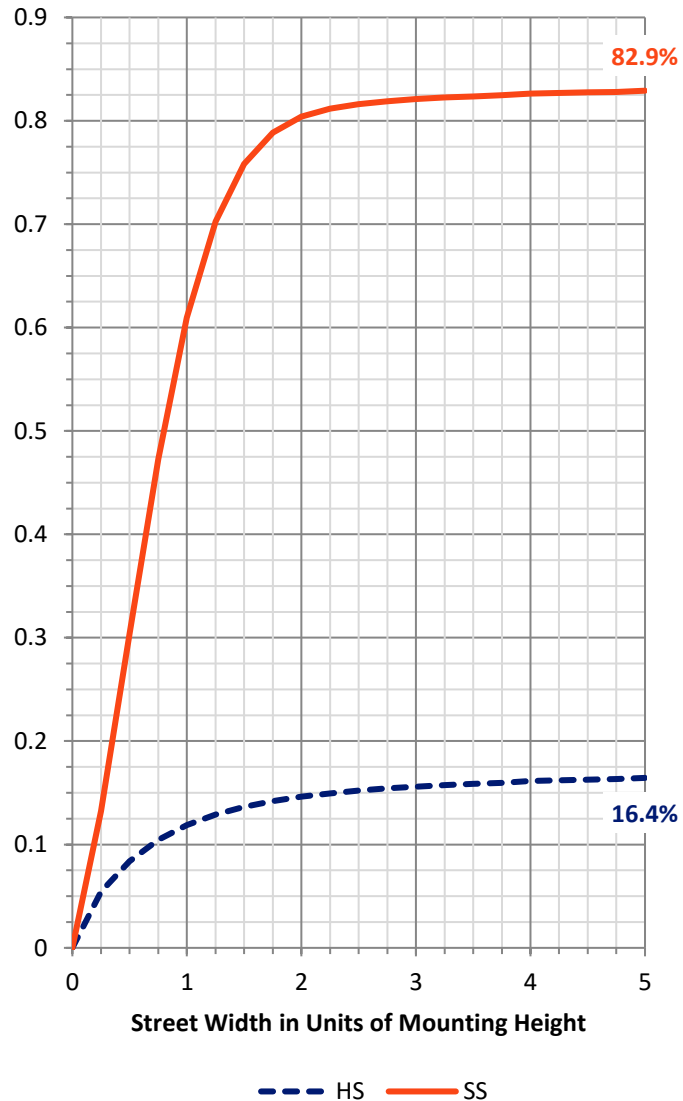
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9915.6	0.0	9915.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	49012.4	0.0	49012.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	58928.0	0.0	58928.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	650.8	1.1
10°-20°	2569.8	4.4
20°-30°	4993.8	8.5
30°-40°	8151.0	13.8
40°-50°	11136.2	18.9
50°-60°	12971.4	22.0
60°-70°	11629.1	19.7
70°-80°	5876.9	10.0
80°-90°	949.0	1.6
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°	58928.0	100.0
0°-180°	58928.0	100.0

Coefficient of Utilization

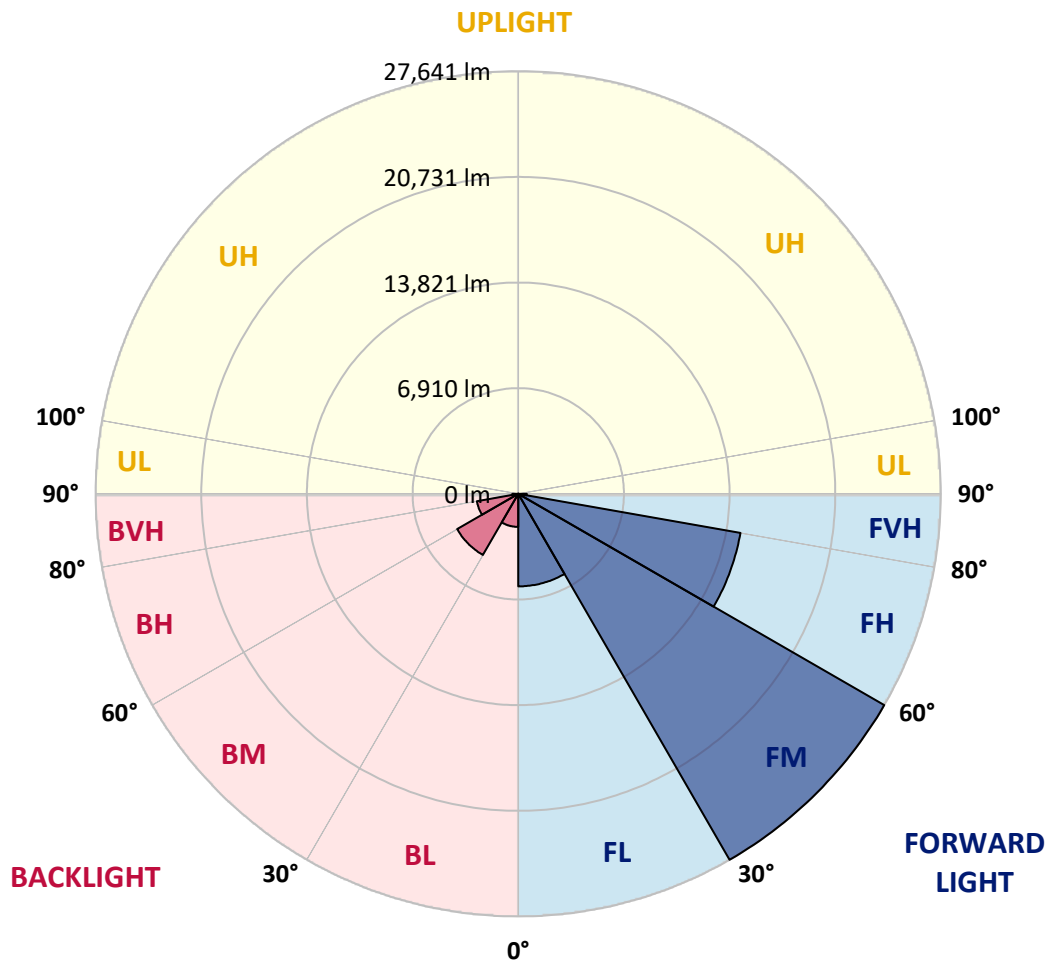


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6051.7	10.3			
FM (30°-60°)	27641.3	46.9			
FH (60°-80°)	14758.9	25.0			G5
FVH (80°-90°)	560.5	1.0			G4/750
BL (0°-30°)	2162.6	3.7	B3/2500		
BM (30°-60°)	4617.3	7.8	B3/5000		
BH (60°-80°)	2747.1	4.7	B4/5000		G4/5000
BVH (80°-90°)	388.6	0.7			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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5
2.5°	7143.9	7035.9	7025.9	6867.9	6831.8	6529.8	6307.7	6075.6	5811.6	5759.6	5551.5
5°	9176.5	9166.5	9028.4	8770.4	8568.3	8052.2	7542.0	7001.9	6409.7	6313.7	5845.6
7.5°	11005.0	10989.0	10882.9	10604.9	10312.8	9678.6	8950.4	8122.2	7161.9	7019.9	6243.7
10°	12393.4	12387.4	12351.3	12147.3	11899.2	11291.1	10486.8	9356.5	8036.2	7842.1	6741.8
12.5°	13465.6	13477.6	13501.7	13429.6	13311.6	12793.5	11969.2	10664.9	8968.4	8776.4	7296.0
15°	14191.8	14227.8	14351.9	14453.9	14515.9	14197.8	13399.6	12003.2	10012.7	9782.6	7910.1
17.5°	14557.9	14597.9	14812.0	15120.1	15404.2	15372.2	14738.0	13279.6	11015.0	10792.9	8570.3
20°	14874.0	14904.0	15144.1	15514.2	16016.3	16238.4	15882.3	14507.9	12113.3	11849.2	9270.5
22.5°	15790.3	15828.3	15900.3	16110.4	16554.5	16962.6	16790.5	15670.2	13119.5	12873.5	9934.7
25°	17558.7	17604.8	17448.7	17270.7	17354.7	17638.8	17670.8	16730.5	14139.8	13861.7	10648.9
27.5°	19689.3	19755.3	19489.3	19031.1	18631.0	18521.0	18483.0	17598.8	15114.1	14792.0	11355.1
30°	21775.9	21889.9	21543.8	20949.7	20215.5	19699.3	19317.2	18449.0	16074.3	15766.3	12021.3
32.5°	23814.4	23768.4	23266.3	22686.1	21825.9	21179.7	20255.5	19361.2	17154.6	16800.5	12683.4
35°	25210.8	25226.8	24760.7	24072.5	23252.3	22756.2	21511.8	20345.5	18256.9	17930.8	13435.6
37.5°	26399.1	26325.1	25797.0	25154.8	24448.6	24236.6	22982.2	21429.8	19451.3	19095.2	14235.9
40°	26795.2	26709.2	26363.1	25901.0	25334.9	25316.8	24604.7	22658.1	20801.6	20449.5	15138.1
42.5°	26555.2	26445.2	26303.1	26177.1	26003.0	26083.1	26129.1	24098.5	22286.0	21891.9	16182.4
45°	25668.9	25502.9	25602.9	25877.0	26255.1	26707.2	27505.4	25692.9	23948.5	23618.4	17408.7
47.5°	24306.6	24156.5	24468.6	25054.8	26083.1	27227.4	28807.8	27453.4	25933.0	25604.9	19155.2
50°	22390.1	22434.1	22880.2	23946.5	25500.9	27467.4	30412.2	29784.1	28817.8	28511.7	21537.8
52.5°	19245.2	19253.2	20509.5	22260.0	24468.6	27343.4	31302.5	32762.9	32756.9	32386.8	23806.4
55°	16324.4	16502.5	17496.7	19823.4	22796.2	26847.3	31924.6	34211.3	35343.6	34909.4	25921.0
57.5°	13471.6	13575.7	14517.9	16854.6	20409.5	25524.9	32562.8	35949.7	38324.4	38050.3	28549.7
60°	10226.8	10386.8	11361.1	13519.7	17356.7	23178.3	32622.8	37764.2	41887.3	41611.3	31484.5
62.5°	6637.8	6913.9	7826.1	9848.7	13663.7	19803.4	31230.4	38950.5	45264.2	45166.2	34089.2
65°	3815.0	4023.1	4657.3	6217.7	9426.5	15566.2	27919.6	38494.4	47342.8	47286.8	35063.5
66°	3116.8	3246.9	3733.0	4859.3	7778.1	13669.7	25995.0	37532.2	47548.9	47550.9	34951.5
67.5°	2492.7	2550.7	2768.7	3478.9	5739.6	10834.9	22556.1	35409.6	47292.8	47362.8	34229.3
70°	2062.6	2092.6	2160.6	2332.6	3132.8	6533.8	16010.3	29894.1	44722.1	44776.1	31410.5
72.5°	1850.5	1868.5	1894.5	1918.5	2210.6	3651.0	9778.6	23914.5	39210.6	39280.6	27115.3
75°	1676.5	1686.5	1682.5	1684.5	1854.5	2326.6	5053.4	17854.8	31704.6	31564.5	20771.6
77.5°	1472.4	1482.4	1462.4	1466.4	1640.4	1788.5	2514.7	12499.4	21395.8	20407.5	11703.2
80°	1244.3	1252.3	1244.3	1258.3	1428.4	1350.4	1462.4	7031.9	9460.6	8948.4	4161.1
82.5°	940.3	974.3	998.3	1054.3	1176.3	960.3	978.3	2738.7	2880.8	2742.7	1276.3
85°	412.1	502.1	752.2	806.2	884.2	576.2	642.2	1116.3	1172.3	1136.3	464.1
87.5°	108.0	118.0	372.1	468.1	490.1	260.1	334.1	508.1	536.1	508.1	154.0
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°	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5	5381.5
2.5°	5441.5	5343.4	5167.4	5011.4	4893.3	4813.3	4733.3	4693.3	4669.3	4645.3	4649.3
5°	5615.5	5417.5	5115.4	4901.3	4781.3	4705.3	4665.3	4649.3	4639.3	4615.2	4615.2
7.5°	5877.6	5597.5	5181.4	4961.3	4867.3	4809.3	4785.3	4777.3	4765.3	4737.3	4741.3
10°	6207.7	5815.6	5319.4	5105.4	5019.4	4955.3	4921.3	4909.3	4887.3	4855.3	4859.3
12.5°	6595.8	6085.6	5501.5	5277.4	5173.4	5087.4	5031.4	4997.4	4959.3	4917.3	4919.3
15°	7019.9	6379.7	5697.5	5431.5	5289.4	5169.4	5079.4	5021.4	4961.3	4909.3	4907.3
17.5°	7450.0	6663.8	5847.6	5515.5	5323.4	5165.4	5043.4	4953.3	4879.3	4815.3	4809.3
20°	7914.1	6919.9	5931.6	5507.5	5259.4	5071.4	4909.3	4797.3	4715.3	4651.3	4641.3
22.5°	8386.3	7159.9	5945.6	5425.5	5117.4	4887.3	4717.3	4593.2	4509.2	4443.2	4419.2
25°	8818.4	7346.0	5887.6	5267.4	4919.3	4671.3	4505.2	4379.2	4311.2	4233.1	4209.1
27.5°	9212.5	7476.0	5771.6	5065.4	4697.3	4453.2	4297.2	4189.1	4115.1	4055.1	4035.1
30°	9566.6	7546.0	5581.5	4825.3	4469.2	4247.1	4115.1	4041.1	3977.1	3901.1	3887.1
32.5°	9902.7	7546.0	5337.4	4563.2	4243.1	4065.1	3987.1	3941.1	3869.0	3795.0	3775.0
35°	10238.8	7500.0	5049.4	4289.2	4035.1	3935.1	3931.1	3877.0	3767.0	3667.0	3641.0
37.5°	10592.9	7406.0	4725.3	4033.1	3865.0	3877.0	3911.1	3791.0	3635.0	3492.9	3454.9
40°	10993.0	7276.0	4389.2	3811.0	3723.0	3851.0	3857.0	3667.0	3362.9	3232.9	3198.9
42.5°	11463.1	7145.9	4077.1	3615.0	3611.0	3773.0	3755.0	3398.9	3216.9	3150.9	3132.8
45°	12081.3	7071.9	3781.0	3428.9	3523.0	3647.0	3581.0	3250.9	3174.9	3136.8	3120.8
47.5°	13055.5	7109.9	3508.9	3280.9	3434.9	3521.0	3256.9	3190.9	3136.8	3090.8	3074.8
50°	14275.9	7087.9	3288.9	3178.9	3334.9	3388.9	3110.8	3112.8	3084.8	3032.8	3008.8
52.5°	15194.1	6915.9	3146.9	3120.8	3246.9	3154.9	3018.8	3036.8	3022.8	2946.8	2920.8
55°	16080.3	6767.8	3074.8	3098.8	3182.9	2862.8	2910.8	2954.8	2940.8	2866.8	2854.8
57.5°	17182.6	6739.8	3030.8	3104.8	3128.8	2716.7	2806.8	2864.8	2854.8	2822.8	2816.8
60°	18533.0	6747.8	2990.8	3114.8	3068.8	2608.7	2708.7	2782.8	2788.8	2782.8	2778.8
62.5°	19275.2	6529.8	2890.8	3086.8	2962.8	2514.7	2606.7	2714.7	2716.7	2728.7	2726.7
65°	18645.0	5877.6	2704.7	2988.8	2784.8	2436.7	2518.7	2636.7	2606.7	2660.7	2660.7
66°	18032.9	5501.5	2612.7	2924.8	2708.7	2406.7	2490.7	2596.7	2558.7	2632.7	2632.7
67.5°	16782.5	4867.3	2446.7	2788.8	2600.7	2364.6	2458.7	2530.7	2478.7	2588.7	2580.7
70°	14497.9	3765.0	2112.6	2480.7	2422.7	2302.6	2414.7	2398.6	2322.6	2490.7	2458.7
72.5°	12223.3	2860.8	1696.5	2076.6	2152.6	2224.6	2352.6	2230.6	2134.6	2252.6	2182.6
75°	9484.6	2150.6	1340.4	1614.4	1818.5	2102.6	2278.6	2036.6	1898.5	1886.5	1848.5
77.5°	5127.4	1476.4	1062.3	1232.3	1444.4	1950.5	2228.6	1828.5	1620.4	1572.4	1542.4
80°	2030.5	960.3	772.2	934.3	1010.3	1730.5	2108.6	1586.4	1336.4	1288.3	1242.3
82.5°	838.2	568.2	498.1	626.2	658.2	1480.4	1892.5	1300.4	1032.3	1428.4	1516.4
85°	360.1	312.1	296.1	324.1	372.1	1038.3	1506.4	992.3	1114.3	994.3	790.2
87.5°	108.0	132.0	126.0	124.0	136.0	248.1	802.2	552.1	818.2	310.1	232.1
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)