

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: P317451

Luminaire Tested: **GAN-SA7C-740-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317451
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-SA7C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52122 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

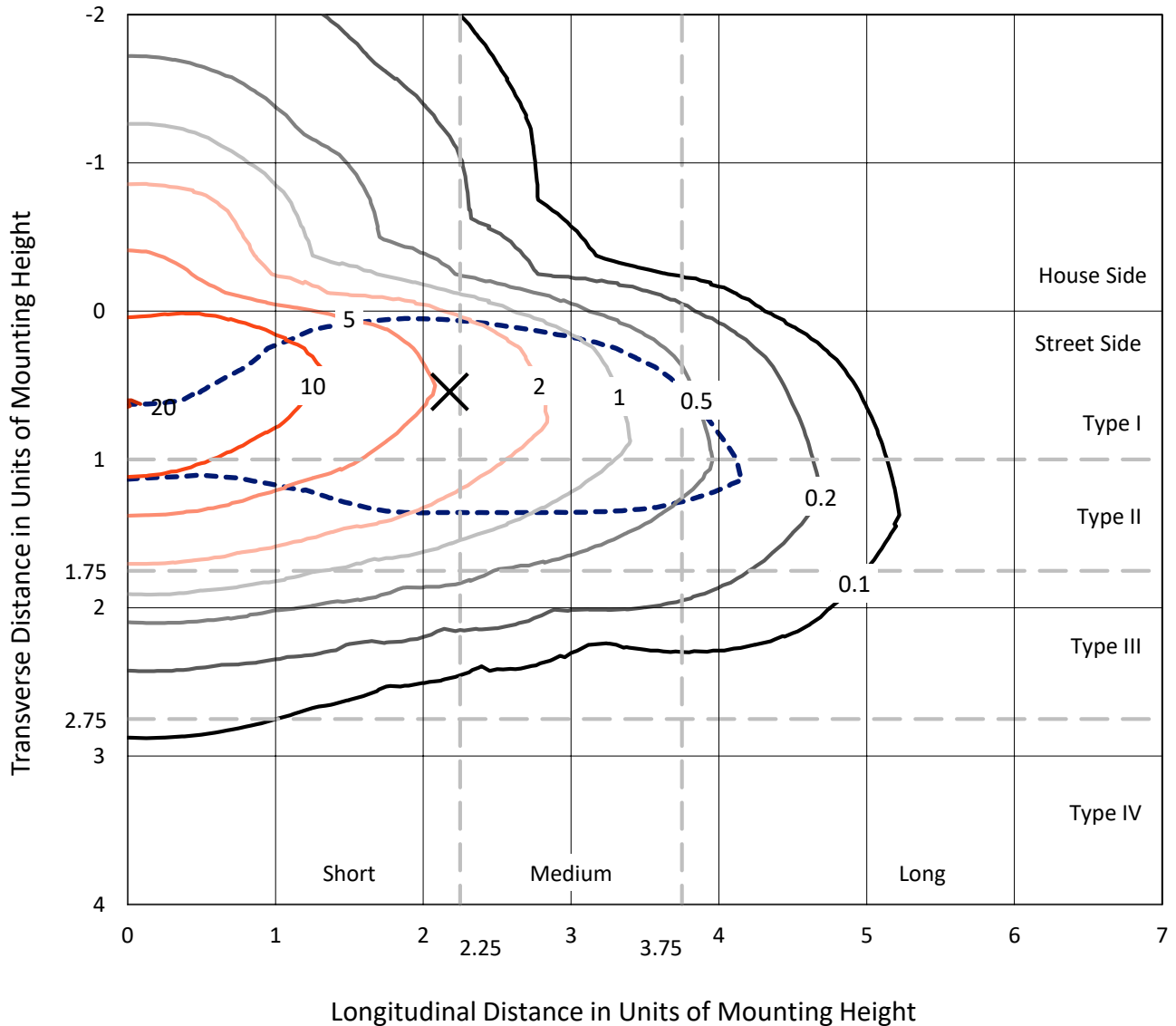
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317451
 CATALOG NUMBER: GAN-SA7C-740-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

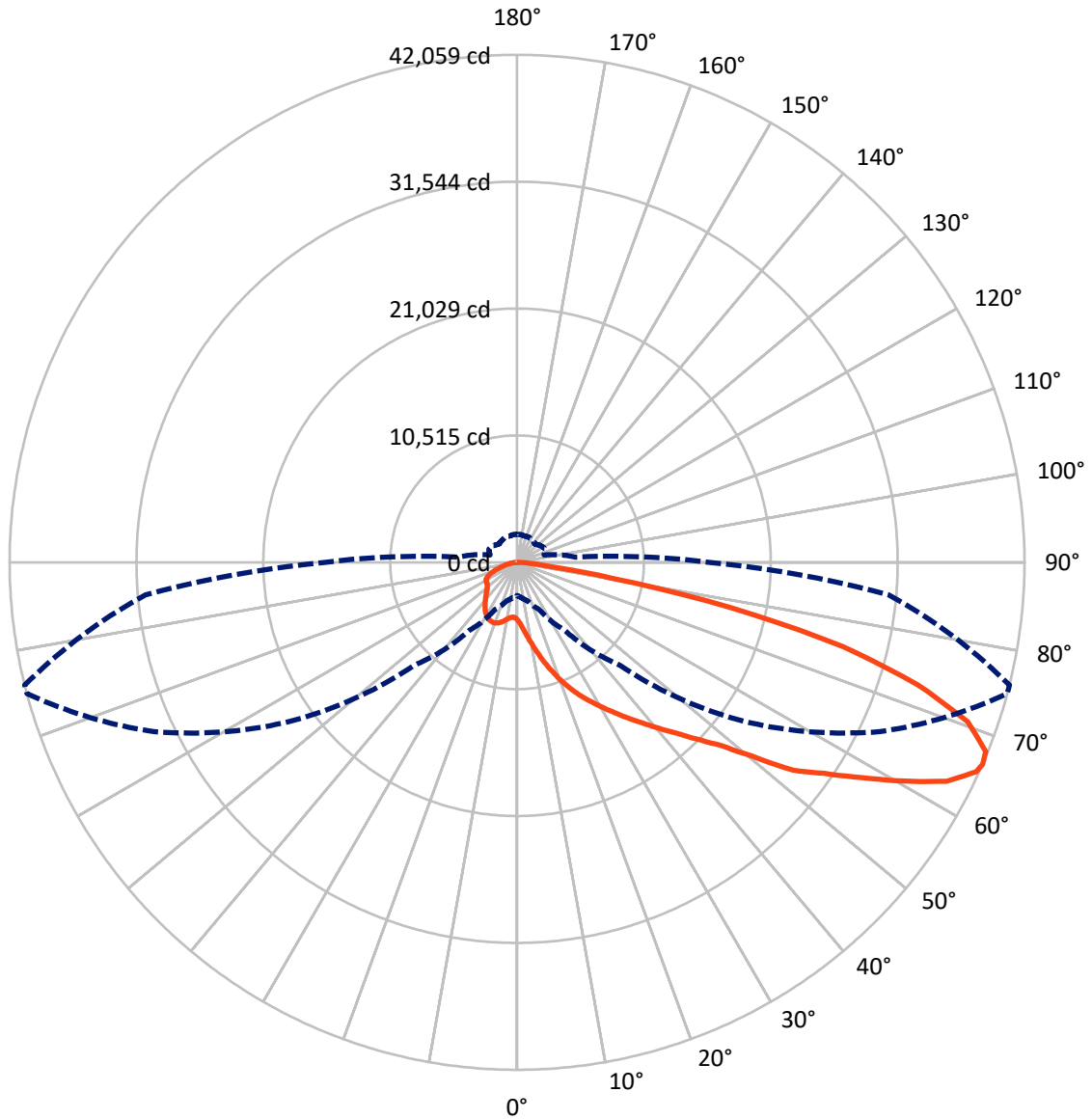
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.2 fc
 Type II - Short - N/A

REPORT NUMBER: P317451
CATALOG NUMBER: GAN-SA7C-740-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P317451
 CATALOG NUMBER: GAN-SA7C-740-U-T2R

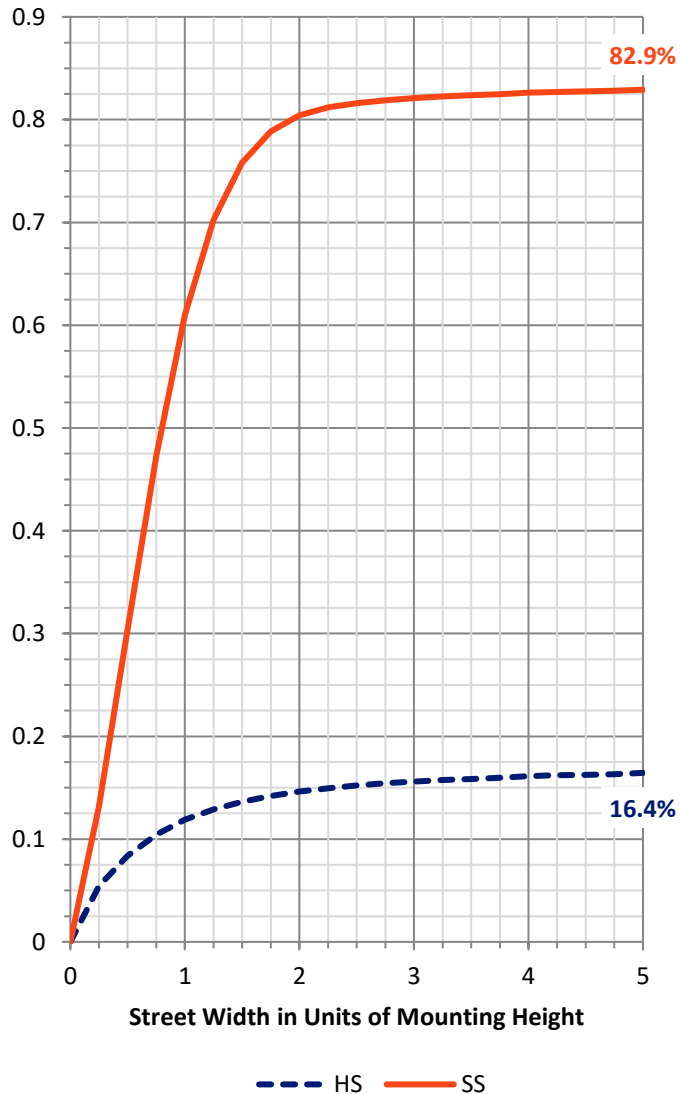
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8770.3	0.0	8770.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	43351.7	0.0	43351.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	52122.0	0.0	52122.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	575.6	1.1
10°-20°	2273.0	4.4
20°-30°	4417.0	8.5
30°-40°	7209.6	13.8
40°-50°	9850.0	18.9
50°-60°	11473.3	22.0
60°-70°	10286.0	19.7
70°-80°	5198.1	10.0
80°-90°	839.4	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°	52122.0	100.0
0°-180°	52122.0	100.0

Coefficient of Utilization

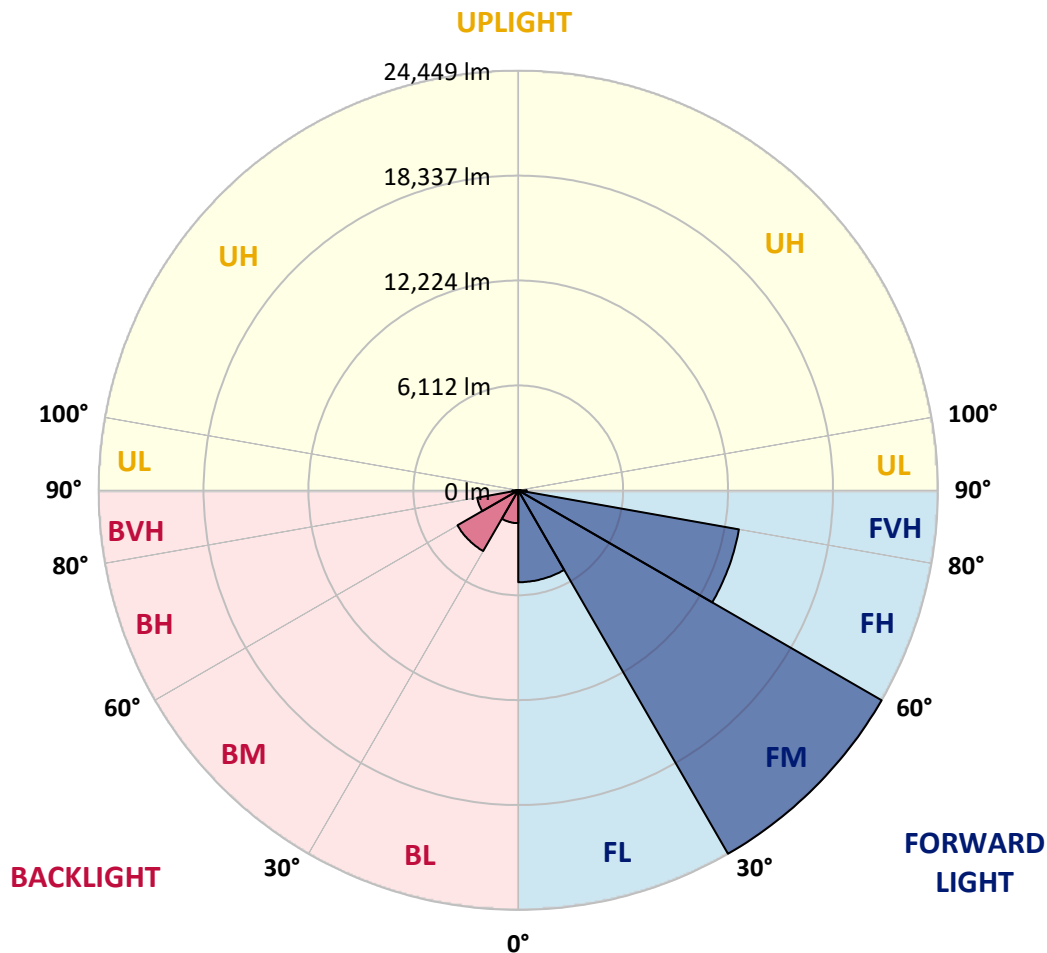


REPORT NUMBER: P317451
 CATALOG NUMBER: GAN-SA7C-740-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5352.8	10.3			
FM (30°-60°)	24448.8	46.9			
FH (60°-80°)	13054.3	25.0			G5
FVH (80°-90°)	495.7	1.0			G3/500
BL (0°-30°)	1912.9	3.7	B3/2500		
BM (30°-60°)	4084.0	7.8	B3/5000		
BH (60°-80°)	2429.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	343.7	0.7			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 II Short





REPORT NUMBER: P317451

CATALOG NUMBER: GAN-SA7C-740-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9
2.5°	6318.8	6223.3	6214.4	6074.6	6042.8	5775.6	5579.2	5373.9	5140.4	5094.3	4910.3
5°	8116.6	8107.8	7985.7	7757.4	7578.7	7122.2	6671.0	6193.2	5669.4	5584.5	5170.4
7.5°	9733.9	9719.8	9626.0	9380.0	9121.7	8560.8	7916.7	7184.1	6334.8	6209.1	5522.6
10°	10962.0	10956.7	10924.8	10744.3	10524.9	9987.0	9275.6	8275.9	7108.0	6936.4	5963.2
12.5°	11910.4	11921.0	11942.3	11878.6	11774.2	11315.9	10586.8	9433.1	7932.6	7762.7	6453.3
15°	12552.7	12584.6	12694.3	12784.5	12839.4	12558.0	11852.0	10616.9	8856.3	8652.8	6996.5
17.5°	12876.5	12911.9	13101.3	13373.8	13625.0	13596.7	13035.8	11745.8	9742.8	9546.4	7580.5
20°	13156.1	13182.7	13395.0	13722.4	14166.5	14362.9	14047.9	12832.3	10714.2	10480.7	8199.8
22.5°	13966.5	14000.2	14063.9	14249.7	14642.5	15003.5	14851.3	13860.4	11604.3	11386.6	8787.3
25°	15530.8	15571.5	15433.4	15276.0	15350.3	15601.5	15629.9	14798.2	12506.7	12260.8	9419.0
27.5°	17415.3	17473.7	17238.3	16833.1	16479.2	16381.9	16348.3	15566.2	13368.5	13083.6	10043.6
30°	19260.8	19361.7	19055.6	18530.0	17880.6	17424.1	17086.1	16318.2	14217.8	13945.3	10632.8
32.5°	21063.9	21023.2	20579.1	20066.0	19305.1	18733.5	17916.0	17125.1	15173.3	14860.1	11218.5
35°	22299.0	22313.2	21900.9	21292.2	20566.7	20127.9	19027.3	17995.7	16148.3	15859.9	11883.9
37.5°	23350.1	23284.7	22817.5	22249.5	21624.9	21437.3	20327.8	18954.7	17204.7	16889.7	12591.7
40°	23700.5	23624.4	23318.3	22909.5	22408.8	22392.8	21762.9	20041.2	18399.1	18087.7	13389.7
42.5°	23488.1	23390.8	23265.2	23153.7	22999.8	23070.5	23111.2	21315.2	19712.1	19363.5	14313.4
45°	22704.3	22557.4	22645.9	22888.3	23222.7	23622.6	24328.6	22725.5	21182.5	20890.5	15398.1
47.5°	21499.2	21366.5	21642.6	22161.0	23070.5	24082.7	25480.6	24282.6	22937.8	22647.6	16942.8
50°	19804.1	19843.0	20237.6	21180.7	22555.6	24295.0	26899.7	26344.1	25489.4	25218.7	19050.3
52.5°	17022.4	17029.5	18140.8	19689.1	21642.6	24185.3	27687.1	28978.9	28973.5	28646.2	21056.9
55°	14439.0	14596.5	15475.9	17533.8	20163.3	23746.5	28237.4	30260.0	31261.5	30877.5	22927.2
57.5°	11915.7	12007.7	12841.2	14907.9	18052.3	22576.9	28801.9	31797.6	33898.0	33655.6	25252.3
60°	9045.6	9187.2	10048.9	11958.2	15352.1	20501.3	28855.0	33402.6	37049.5	36805.3	27848.2
62.5°	5871.2	6115.3	6922.2	8711.2	12085.6	17516.1	27623.4	34451.9	40036.4	39949.7	30152.0
65°	3374.4	3558.4	4119.4	5499.6	8337.8	13768.4	24694.9	34048.4	41874.9	41825.3	31013.8
66°	2756.9	2871.9	3301.9	4298.1	6879.8	12090.9	22992.7	33197.3	42057.1	42058.9	30914.7
67.5°	2204.8	2256.1	2449.0	3077.1	5076.7	9583.5	19950.9	31319.9	41830.6	41892.6	30275.9
70°	1824.3	1850.9	1911.0	2063.2	2771.0	5779.1	14161.2	26441.4	39556.8	39604.6	27782.7
72.5°	1636.8	1652.7	1675.7	1696.9	1955.3	3229.3	8649.2	21152.4	34681.9	34743.8	23983.6
75°	1482.8	1491.7	1488.1	1489.9	1640.3	2057.9	4469.7	15792.7	28042.8	27918.9	18372.6
77.5°	1302.3	1311.2	1293.5	1297.0	1451.0	1581.9	2224.2	11055.7	18924.6	18050.5	10351.5
80°	1100.6	1107.7	1100.6	1113.0	1263.4	1194.4	1293.5	6219.7	8367.9	7914.9	3680.5
82.5°	831.7	861.7	883.0	932.5	1040.5	849.4	865.3	2422.4	2548.1	2426.0	1128.9
85°	364.5	444.1	665.3	713.1	782.1	509.6	568.0	987.4	1036.9	1005.1	410.5
87.5°	95.6	104.4	329.1	414.1	433.5	230.0	295.5	449.4	474.2	449.4	136.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317451
 CATALOG NUMBER: GAN-SA7C-740-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9	4759.9
2.5°	4813.0	4726.3	4570.6	4432.6	4328.2	4257.4	4186.6	4151.2	4130.0	4108.7	4112.3
5°	4966.9	4791.8	4524.6	4335.2	4229.1	4161.8	4126.4	4112.3	4103.4	4082.2	4082.2
7.5°	5198.7	4951.0	4583.0	4388.3	4305.2	4253.8	4232.6	4225.5	4214.9	4190.1	4193.7
10°	5490.7	5143.9	4705.1	4515.7	4439.6	4383.0	4352.9	4342.3	4322.9	4294.5	4298.1
12.5°	5834.0	5382.8	4866.1	4667.9	4575.9	4499.8	4450.3	4420.2	4386.6	4349.4	4351.2
15°	6209.1	5642.9	5039.5	4804.2	4678.5	4572.3	4492.7	4441.4	4388.3	4342.3	4340.5
17.5°	6589.6	5894.2	5172.2	4878.5	4708.6	4568.8	4460.9	4381.2	4315.8	4259.1	4253.8
20°	7000.1	6120.6	5246.5	4871.4	4652.0	4485.6	4342.3	4243.2	4170.7	4114.1	4105.2
22.5°	7417.7	6333.0	5258.9	4798.8	4526.3	4322.9	4172.4	4062.7	3988.4	3930.0	3908.8
25°	7799.9	6497.5	5207.6	4659.1	4351.2	4131.7	3984.9	3873.4	3813.2	3744.2	3723.0
27.5°	8148.5	6612.6	5105.0	4480.3	4154.8	3938.9	3800.9	3705.3	3639.8	3586.7	3569.1
30°	8461.7	6674.5	4936.9	4268.0	3953.0	3756.6	3639.8	3574.4	3517.7	3450.5	3438.1
32.5°	8758.9	6674.5	4721.0	4036.2	3753.1	3595.6	3526.6	3485.9	3422.2	3356.7	3339.0
35°	9056.2	6633.8	4466.2	3793.8	3569.1	3480.6	3477.0	3429.3	3331.9	3243.5	3220.5
37.5°	9369.4	6550.6	4179.5	3567.3	3418.6	3429.3	3459.3	3353.2	3215.2	3089.5	3055.9
40°	9723.3	6435.6	3882.2	3370.9	3293.0	3406.3	3411.6	3243.5	2974.5	2859.5	2829.4
42.5°	10139.1	6320.6	3606.2	3197.5	3193.9	3337.2	3321.3	3006.4	2845.3	2786.9	2771.0
45°	10685.9	6255.1	3344.3	3032.9	3116.1	3225.8	3167.4	2875.4	2808.2	2774.6	2760.4
47.5°	11547.7	6288.7	3103.7	2902.0	3038.2	3114.3	2880.7	2822.3	2774.6	2733.9	2719.7
50°	12627.0	6269.3	2909.0	2811.7	2949.7	2997.5	2751.5	2753.3	2728.5	2682.5	2661.3
52.5°	13439.2	6117.1	2783.4	2760.4	2871.9	2790.5	2670.2	2686.1	2673.7	2606.5	2583.4
55°	14223.1	5986.2	2719.7	2740.9	2815.3	2532.1	2574.6	2613.5	2601.1	2535.7	2525.1
57.5°	15198.1	5961.4	2680.8	2746.2	2767.5	2403.0	2482.6	2533.9	2525.1	2496.7	2491.4
60°	16392.5	5968.5	2645.4	2755.1	2714.4	2307.4	2395.9	2461.4	2466.7	2461.4	2457.8
62.5°	17049.0	5775.6	2556.9	2730.3	2620.6	2224.2	2305.6	2401.2	2403.0	2413.6	2411.8
65°	16491.6	5198.7	2392.3	2643.6	2463.1	2155.2	2227.8	2332.2	2305.6	2353.4	2353.4
66°	15950.1	4866.1	2310.9	2587.0	2395.9	2128.7	2203.0	2296.8	2263.2	2328.6	2328.6
67.5°	14844.2	4305.2	2164.1	2466.7	2300.3	2091.5	2174.7	2238.4	2192.4	2289.7	2282.6
70°	12823.5	3330.2	1868.6	2194.2	2142.8	2036.7	2135.8	2121.6	2054.4	2203.0	2174.7
72.5°	10811.6	2530.4	1500.5	1836.7	1904.0	1967.7	2080.9	1973.0	1888.0	1992.4	1930.5
75°	8389.1	1902.2	1185.6	1428.0	1608.5	1859.7	2015.4	1801.3	1679.2	1668.6	1635.0
77.5°	4535.2	1305.9	939.6	1090.0	1277.6	1725.2	1971.2	1617.3	1433.3	1390.8	1364.3
80°	1796.0	849.4	683.0	826.3	893.6	1530.6	1865.0	1403.2	1182.0	1139.5	1098.9
82.5°	741.4	502.5	440.6	553.8	582.2	1309.4	1673.9	1150.2	913.1	1263.4	1341.3
85°	318.5	276.0	261.9	286.7	329.1	918.4	1332.4	877.7	985.6	879.4	698.9
87.5°	95.6	116.8	111.5	109.7	120.3	219.4	709.6	488.4	723.7	274.3	205.3
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)