

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: P317801

Luminaire Tested: **GAN-SA7B-750-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317801  
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-SA7B-750-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41327 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

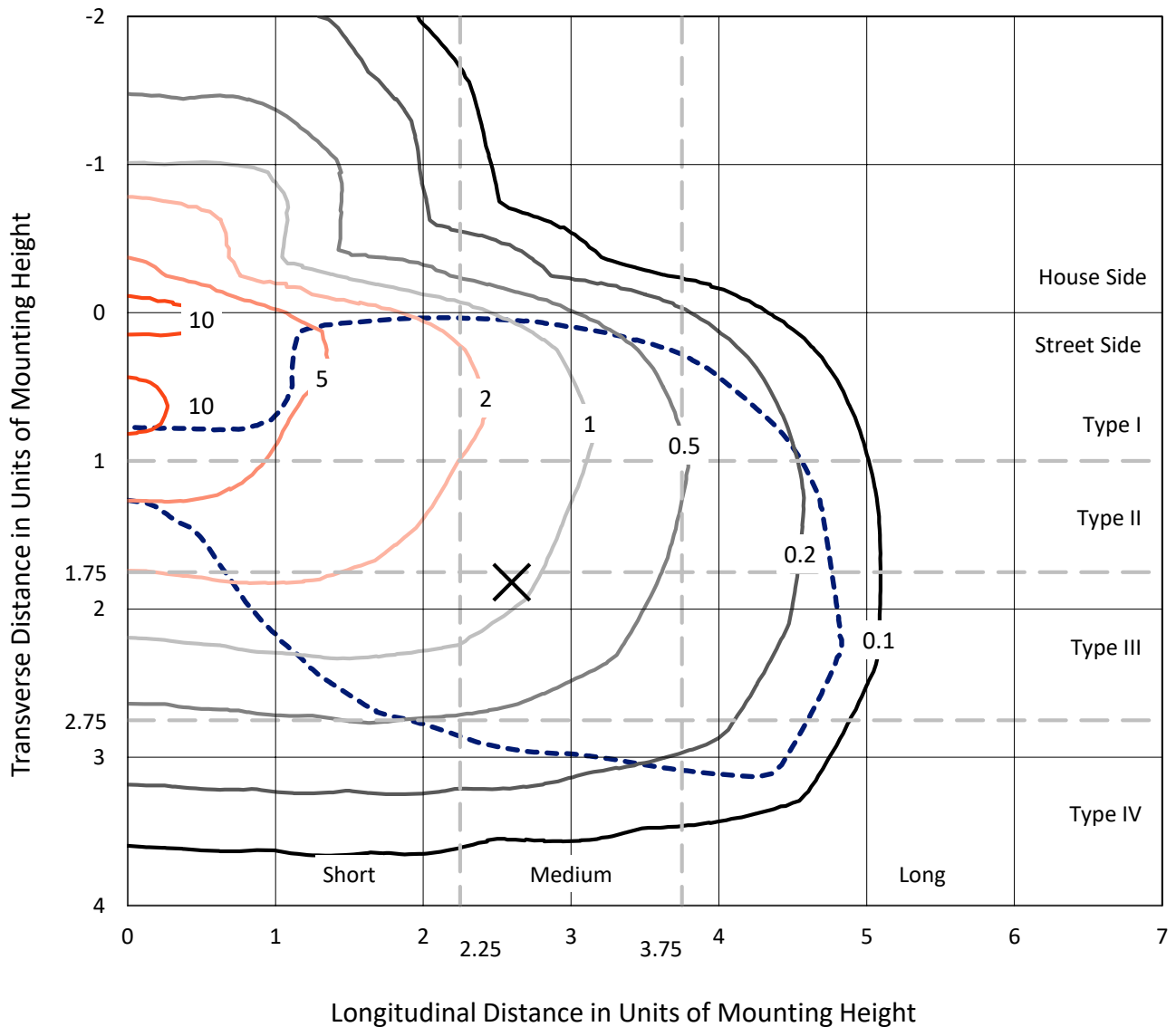
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

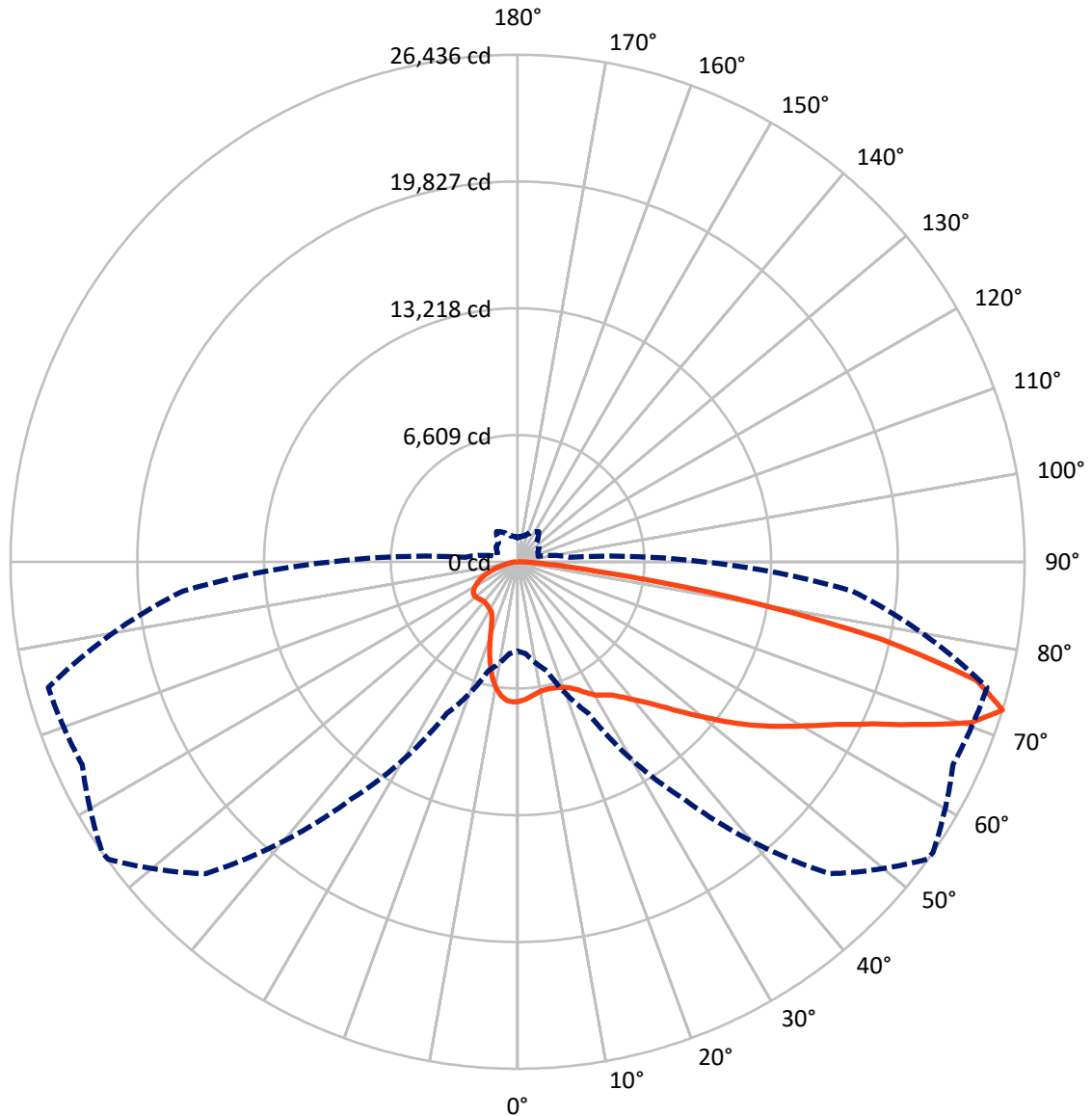
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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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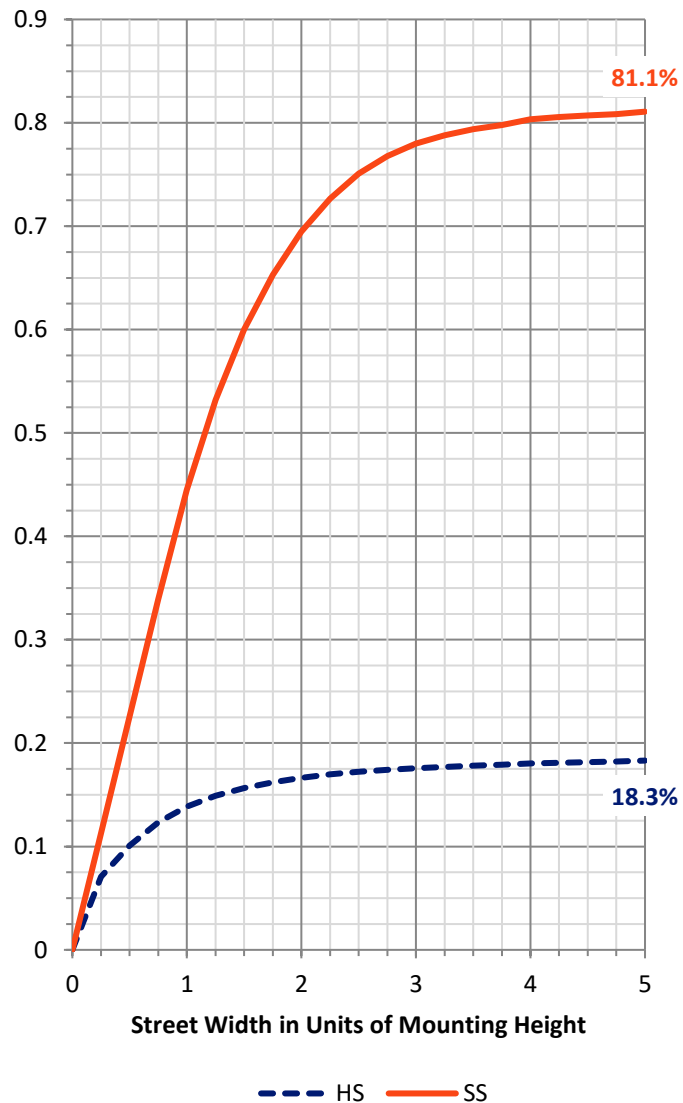
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7681.3	0.0	7681.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	33645.7	0.0	33645.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	41327.0	0.0	41327.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	659.6	1.6
10°-20°	1756.1	4.2
20°-30°	2895.3	7.0
30°-40°	4282.9	10.4
40°-50°	5978.0	14.5
50°-60°	7783.6	18.8
60°-70°	9565.8	23.1
70°-80°	7498.4	18.1
80°-90°	907.4	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°	41327.0	100.0
0°-180°	41327.0	100.0

**Coefficient of Utilization**

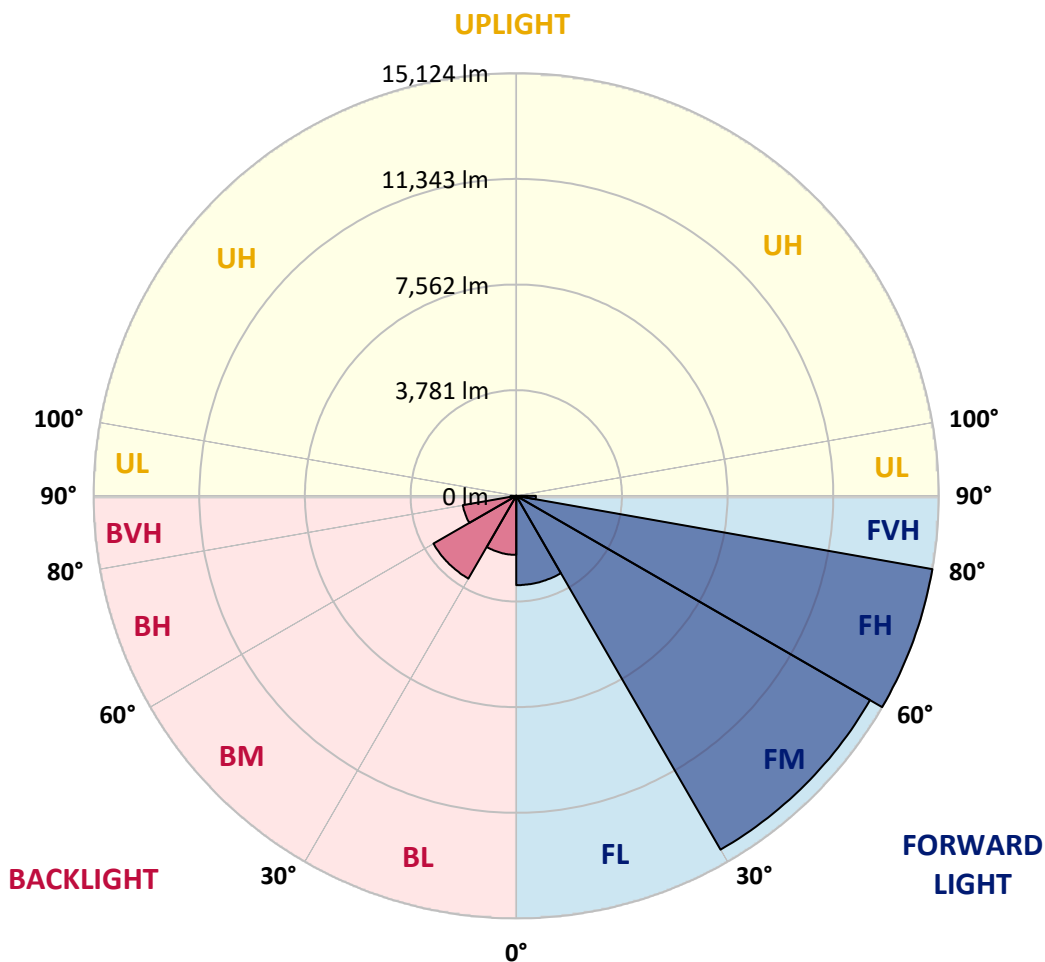


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.5	7.7			
FM (30°-60°)	14622.3	35.4			
FH (60°-80°)	15124.3	36.6			G5
FVH (80°-90°)	701.6	1.7			G4/750
BL (0°-30°)	2113.5	5.1	B3/2500		
BM (30°-60°)	3422.1	8.3	B3/5000		
BH (60°-80°)	1939.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	205.9	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°	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2
2.5°	7051.9	7035.1	7056.1	7085.4	7117.5	7160.8	7185.9	7197.1	7240.3	7257.1	7293.4
5°	6725.3	6716.9	6751.8	6802.0	6873.2	6973.7	7054.7	7070.0	7184.5	7265.5	7339.4
7.5°	6488.0	6488.0	6528.4	6588.5	6668.0	6803.4	6917.9	6938.8	7132.9	7307.3	7444.1
10°	6299.5	6306.5	6354.0	6425.2	6518.7	6662.5	6814.6	6838.3	7118.9	7405.1	7622.8
12.5°	6173.9	6190.6	6233.9	6298.1	6414.0	6588.5	6781.1	6813.2	7148.2	7544.6	7837.8
15°	6253.5	6281.4	6285.6	6312.1	6376.3	6566.1	6800.6	6834.1	7211.0	7687.0	8082.0
17.5°	6602.4	6612.2	6568.9	6513.1	6482.4	6603.8	6859.3	6894.2	7286.4	7828.0	8316.5
20°	7132.9	7127.3	7033.8	6883.0	6726.7	6746.2	6955.6	6991.9	7388.3	7952.2	8551.1
22.5°	7802.9	7783.3	7639.6	7361.8	7095.2	6983.5	7124.5	7155.2	7541.8	8129.5	8802.3
25°	8615.3	8572.0	8382.2	8009.5	7617.2	7329.7	7378.5	7407.8	7765.2	8327.7	9032.6
27.5°	9472.3	9429.1	9187.6	8736.7	8214.7	7766.6	7728.9	7754.0	8019.2	8474.3	9202.9
30°	10368.5	10322.4	10101.9	9596.6	8848.4	8218.8	8055.5	8065.3	8197.9	8553.8	9342.5
32.5°	11268.8	11225.5	10978.5	10392.2	9536.5	8704.6	8291.4	8278.9	8305.4	8636.2	9500.2
35°	12181.7	12198.4	11909.5	11260.4	10298.7	9244.8	8570.6	8544.1	8485.4	8805.1	9723.6
37.5°	13158.8	13147.6	12773.5	12095.1	11095.7	9831.1	8971.2	8967.0	8764.6	9124.8	10073.9
40°	13812.1	13819.0	13591.5	12949.4	11901.1	10480.1	9484.9	9475.1	9209.9	9603.5	10533.2
42.5°	14067.5	14113.6	14172.2	13764.6	12744.2	11232.5	10097.7	10083.7	9831.1	10290.3	11073.4
45°	14085.6	14177.8	14540.7	14489.1	13598.5	12093.8	10880.7	10841.7	10660.2	11203.2	11718.3
47.5°	13929.3	14024.2	14627.2	14920.4	14362.0	13002.5	11796.4	11765.7	11609.4	12345.0	12416.2
50°	13587.3	13678.1	14448.6	15131.1	14990.2	13876.3	12851.7	12770.7	12687.0	13664.1	13214.6
52.5°	12946.6	13121.1	14209.9	15181.4	15365.7	14652.4	13961.4	13908.4	13954.4	15055.8	14014.5
55°	11429.3	11624.7	13594.3	15139.5	15643.4	15304.2	15071.1	15068.3	15307.0	16515.8	14872.9
57.5°	10579.2	10717.4	12340.8	15068.3	15972.9	15951.9	16169.7	16196.2	16661.0	18105.7	15771.8
60°	10099.1	10244.2	11705.7	14804.5	16483.7	16789.4	17290.5	17343.6	18037.3	19865.9	16853.6
62.5°	9662.2	9821.3	11312.1	14267.1	17085.4	17987.1	18633.4	18680.8	19494.6	21675.0	17899.1
65°	8915.4	9095.4	10735.6	13914.0	17632.5	19549.1	20340.5	20372.6	21168.3	23570.5	18699.0
67.5°	7860.1	8024.8	9648.2	13133.7	18037.3	21446.0	22610.2	22628.3	22827.9	24909.2	19108.0
70°	6627.6	6690.4	8098.8	11522.8	17558.6	23220.2	25097.6	25101.8	24341.0	25766.2	19041.0
72.5°	4656.6	4804.6	5879.4	8722.7	15089.3	23003.8	26388.8	26436.2	25044.6	25333.5	17519.5
75°	2855.9	3012.3	3687.9	5286.1	9572.8	18091.8	24381.5	24711.0	23725.5	22587.8	14311.8
77.5°	1909.5	1968.2	2406.5	3082.1	4336.9	10408.9	18745.0	19364.8	19709.6	16472.6	9152.7
80°	1065.0	1176.7	1595.5	1915.1	1929.1	4135.9	11239.5	11384.7	10965.9	6559.2	2823.8
82.5°	563.9	625.3	1065.0	1125.1	1052.5	1384.7	4189.0	4193.2	3503.6	1758.8	838.9
85°	436.9	488.6	730.0	686.8	537.4	614.2	1381.9	1457.3	1192.1	720.3	273.6
87.5°	217.8	270.8	495.5	435.5	210.8	175.9	494.1	527.6	470.4	282.0	99.1
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°	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2	7289.2
2.5°	7307.3	7319.9	7335.3	7318.5	7312.9	7290.6	7252.9	7244.5	7225.0	7226.4	7237.5
5°	7371.5	7392.5	7384.1	7319.9	7243.1	7135.6	7024.0	6929.1	6866.2	6862.1	6857.9
7.5°	7494.4	7508.3	7442.7	7259.9	7044.9	6796.5	6561.9	6356.8	6232.5	6201.8	6194.8
10°	7687.0	7684.2	7504.2	7135.6	6707.1	6263.2	5886.4	5601.6	5435.5	5386.6	5374.1
12.5°	7902.0	7869.9	7525.1	6909.5	6229.7	5614.2	5136.8	4819.9	4646.8	4591.0	4577.0
15°	8123.9	8044.4	7473.4	6571.7	5643.5	4914.8	4413.7	4120.6	4027.1	3996.4	3990.8
17.5°	8330.5	8177.0	7325.5	6113.9	4974.9	4218.3	3827.5	3710.2	3732.5	3773.0	3774.4
20°	8532.9	8266.3	7088.2	5536.0	4269.9	3644.6	3512.0	3598.5	3704.6	3787.0	3798.1
22.5°	8732.5	8329.1	6782.5	4868.8	3639.0	3322.2	3415.7	3573.4	3694.8	3784.2	3799.5
25°	8900.0	8344.5	6360.9	4156.9	3200.7	3200.7	3369.6	3519.0	3639.0	3727.0	3742.3
27.5°	8961.4	8241.2	5766.3	3498.0	2980.2	3144.9	3305.4	3429.6	3531.5	3625.1	3641.8
30°	8985.2	8049.9	5079.5	2969.0	2889.4	3084.9	3218.9	3324.9	3421.3	3509.2	3524.6
32.5°	8989.4	7819.6	4350.9	2668.9	2826.6	3022.0	3111.4	3204.9	3308.2	3343.1	3348.7
35°	9015.9	7547.4	3583.2	2515.3	2768.0	2963.4	3034.6	3101.6	2934.1	2946.7	2957.8
37.5°	9092.6	7278.0	2941.1	2428.8	2730.3	2932.7	3017.9	2775.0	2643.8	2613.1	2608.9
40°	9236.4	6990.5	2465.1	2359.0	2716.3	2948.1	2910.4	2590.7	2364.6	2195.7	2170.6
42.5°	9436.0	6680.6	2160.8	2312.9	2726.1	3022.0	2761.0	2413.4	2038.0	1929.1	1915.1
45°	9660.8	6355.4	1996.1	2280.8	2759.6	3079.3	2730.3	2177.5	1885.8	1803.5	1796.5
47.5°	9878.5	5957.5	1910.9	2266.9	2805.7	3033.2	2600.5	2105.0	1813.2	1770.0	1774.1
50°	10128.4	5598.8	1859.3	2251.5	2846.2	3003.9	2453.9	2067.3	1785.3	1838.4	1894.2
52.5°	10339.2	5227.5	1813.2	2220.8	2861.5	2952.2	2416.2	2074.3	1785.3	1887.2	1940.2
55°	10589.0	4946.9	1760.2	2156.6	2832.2	2805.7	2389.7	2116.1	1806.2	1742.0	1747.6
57.5°	10911.5	4854.8	1701.6	2056.1	2734.5	2592.1	2377.2	2156.6	1793.7	1753.2	1767.2
60°	11358.1	4952.5	1677.8	1924.9	2582.3	2424.6	2378.5	2135.7	1705.7	1636.0	1637.3
62.5°	11783.9	5061.4	1676.4	1842.5	2395.3	2275.3	2346.4	2067.3	1661.1	1620.6	1636.0
65°	11923.5	4951.1	1609.4	1750.4	2184.5	2096.6	2287.8	1994.7	1627.6	1566.2	1563.4
67.5°	11736.4	4609.1	1474.0	1601.1	1943.0	1888.6	2211.0	1908.1	1574.5	1524.3	1515.9
70°	11180.9	3845.6	1306.5	1404.2	1668.1	1654.1	2089.6	1807.6	1503.3	1460.1	1423.8
72.5°	9685.9	2740.1	1101.3	1168.3	1358.2	1402.8	1922.1	1676.4	1402.8	1309.3	1253.5
75°	7955.0	2028.2	904.5	918.5	1031.5	1153.0	1691.8	1522.9	1284.2	1125.1	1081.8
77.5°	4871.6	1240.9	720.3	725.8	739.8	919.9	1393.1	1351.2	1133.4	938.0	907.3
80°	1577.3	677.0	520.7	547.2	505.3	674.2	1077.6	1150.2	972.9	784.5	751.0
82.5°	600.2	395.0	351.8	369.9	350.4	452.3	785.9	921.3	797.0	644.9	524.8
85°	290.3	223.3	208.0	233.1	216.4	231.7	502.5	678.4	604.4	420.2	390.8
87.5°	103.3	99.1	79.6	107.5	92.1	82.4	153.5	342.0	399.2	288.9	258.2
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)