

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: P317761

Luminaire Tested: **GAN-SA7B-740-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317761  
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-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 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: 41328 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

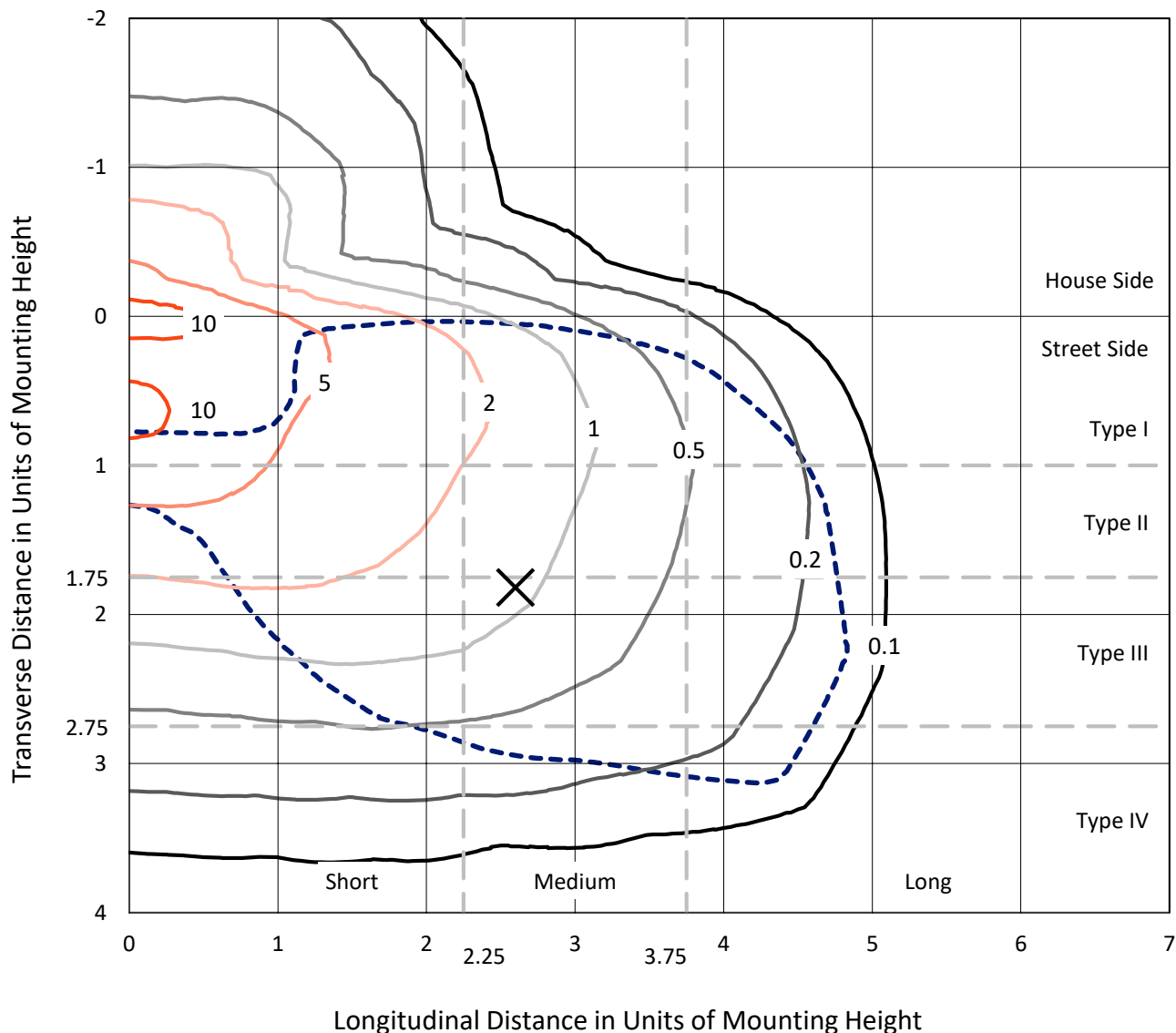
Input Watts (W): 295  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

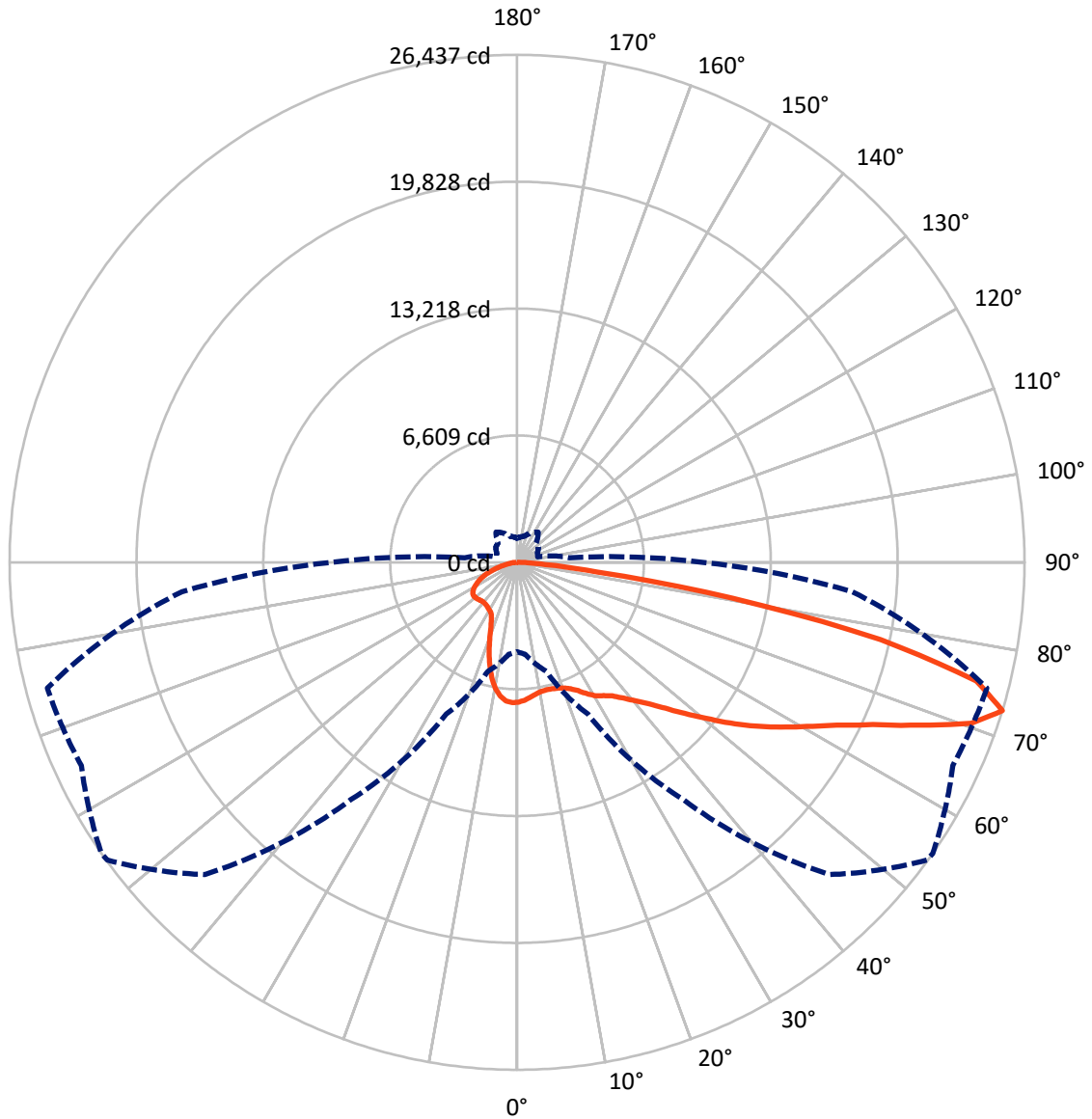
× Max cd  
 - - - 1/2 Max cd



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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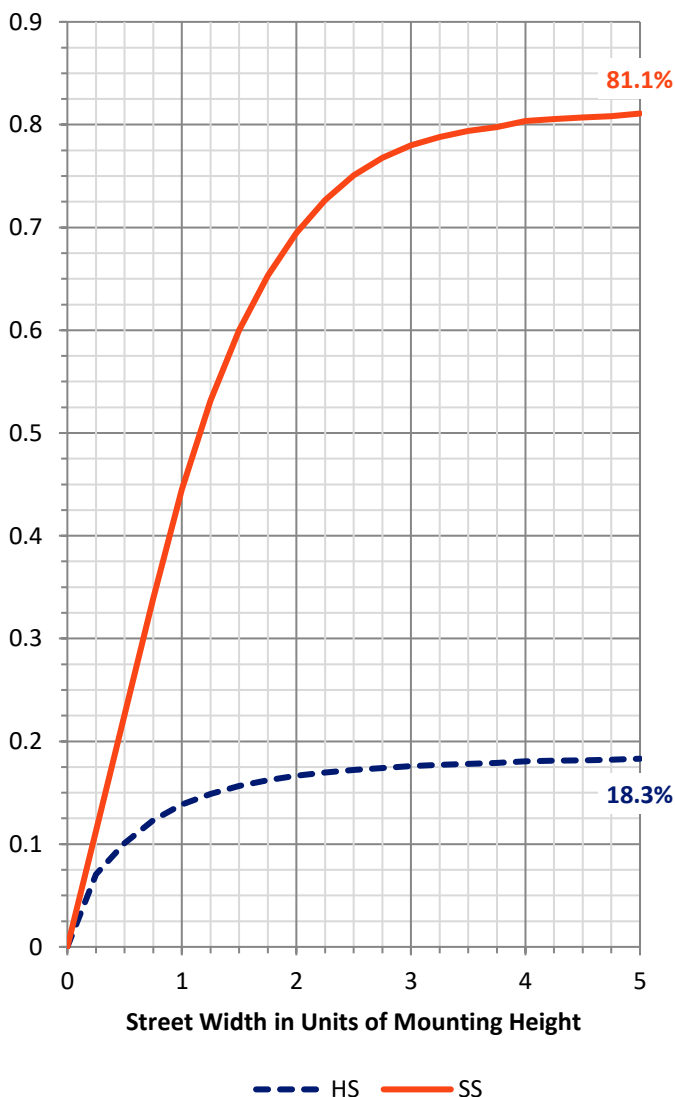
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7681.5	0.0	7681.5
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	33646.5	0.0	33646.5
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	41328.0	0.0	41328.0
	% 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°	2895.4	7.0
30°-40°	4283.0	10.4
40°-50°	5978.2	14.5
50°-60°	7783.8	18.8
60°-70°	9566.0	23.1
70°-80°	7498.6	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°	41328.0	100.0
0°-180°	41328.0	100.0

**Coefficient of Utilization**

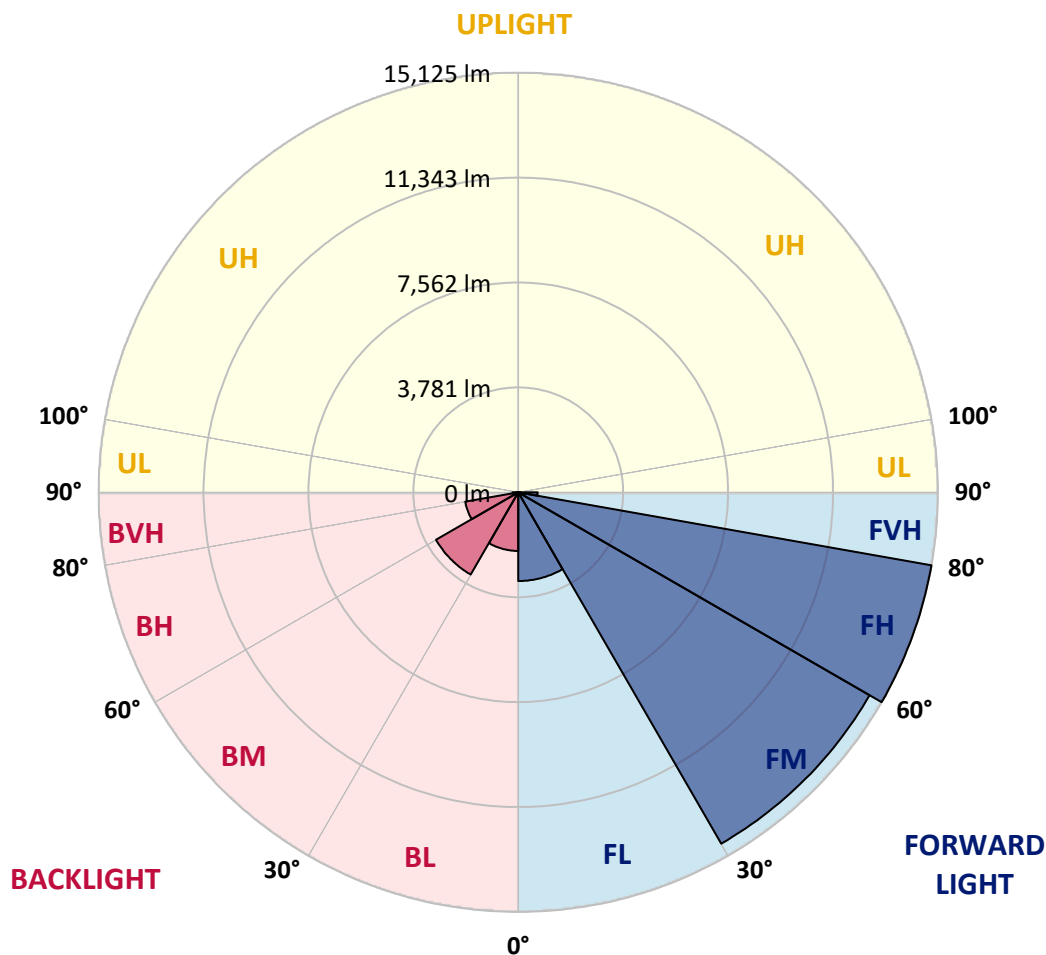


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3197.6	7.7			
FM (30°-60°)	14622.7	35.4			
FH (60°-80°)	15124.6	36.6			G5
FVH (80°-90°)	701.6	1.7			G4/750
BL (0°-30°)	2113.5	5.1	B3/2500		
BM (30°-60°)	3422.2	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°	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4
2.5°	7052.1	7035.3	7056.3	7085.6	7117.7	7160.9	7186.1	7197.2	7240.5	7257.3	7293.6
5°	6725.4	6717.1	6751.9	6802.2	6873.4	6973.9	7054.9	7070.2	7184.7	7265.6	7339.6
7.5°	6488.1	6488.1	6528.6	6588.6	6668.2	6803.6	6918.1	6939.0	7133.0	7307.5	7444.3
10°	6299.7	6306.7	6354.1	6425.3	6518.8	6662.6	6814.8	6838.5	7119.1	7405.2	7623.0
12.5°	6174.0	6190.8	6234.1	6298.3	6414.1	6588.6	6781.3	6813.4	7148.4	7544.8	7838.0
15°	6253.6	6281.5	6285.7	6312.2	6376.5	6566.3	6800.8	6834.3	7211.2	7687.2	8082.2
17.5°	6602.6	6612.4	6569.1	6513.3	6482.5	6604.0	6859.4	6894.3	7286.6	7828.2	8316.7
20°	7133.0	7127.4	7033.9	6883.2	6726.8	6746.4	6955.8	6992.0	7388.5	7952.4	8551.3
22.5°	7803.1	7783.5	7639.7	7362.0	7095.3	6983.7	7124.7	7155.4	7542.0	8129.7	8802.5
25°	8615.5	8572.2	8382.4	8009.7	7617.4	7329.9	7378.7	7408.0	7765.4	8327.9	9032.8
27.5°	9472.6	9429.3	9187.8	8736.9	8214.8	7766.8	7729.1	7754.2	8019.4	8474.5	9203.1
30°	10368.7	10322.7	10102.1	9596.8	8848.6	8219.0	8055.7	8065.5	8198.1	8554.1	9342.7
32.5°	11269.1	11225.8	10978.7	10392.4	9536.8	8704.8	8291.6	8279.1	8305.6	8636.4	9500.5
35°	12182.0	12198.7	11909.8	11260.7	10298.9	9245.0	8570.8	8544.3	8485.7	8805.3	9723.8
37.5°	13159.1	13147.9	12773.8	12095.4	11096.0	9831.3	8971.4	8967.2	8764.8	9125.0	10074.2
40°	13812.4	13819.4	13591.8	12949.7	11901.4	10480.4	9485.1	9475.3	9210.1	9603.8	10533.4
42.5°	14067.8	14113.9	14172.5	13764.9	12744.5	11232.8	10097.9	10084.0	9831.3	10290.5	11073.6
45°	14086.0	14178.1	14541.1	14489.4	13598.8	12094.0	10881.0	10841.9	10660.5	11203.5	11718.5
47.5°	13929.6	14024.6	14627.6	14920.7	14362.4	13002.8	11796.7	11766.0	11609.7	12345.3	12416.5
50°	13587.7	13678.4	14448.9	15131.5	14990.5	13876.6	12852.0	12771.1	12687.3	13664.4	13214.9
52.5°	12946.9	13121.4	14210.2	15181.8	15366.0	14652.7	13961.8	13908.7	13954.8	15056.1	14014.8
55°	11429.6	11625.0	13594.6	15139.9	15643.8	15304.6	15071.5	15068.7	15307.4	16516.2	14873.3
57.5°	10579.5	10717.7	12341.1	15068.7	15973.2	15952.3	16170.1	16196.6	16661.4	18106.2	15772.2
60°	10099.3	10244.5	11706.0	14804.9	16484.1	16789.8	17291.0	17344.0	18037.8	19866.4	16854.1
62.5°	9662.4	9821.5	11312.3	14267.5	17085.8	17987.5	18633.8	18681.3	19495.1	21675.5	17899.6
65°	8915.6	9095.7	10735.8	13914.3	17633.0	19549.5	20341.0	20373.1	21168.8	23571.1	18699.4
67.5°	7860.3	8025.0	9648.4	13134.0	18037.8	21446.5	22610.7	22628.9	22828.5	24909.8	19108.4
70°	6627.7	6690.5	8099.0	11523.1	17559.0	23220.7	25098.2	25102.4	24341.6	25766.8	19041.4
72.5°	4656.7	4804.7	5879.5	8723.0	15089.6	23004.4	26389.4	26436.9	25045.2	25334.1	17519.9
75°	2856.0	3012.3	3688.0	5286.3	9573.1	18092.2	24382.1	24711.6	23726.0	22588.4	14312.1
77.5°	1909.6	1968.2	2406.5	3082.1	4337.0	10409.2	18745.5	19365.3	19710.1	16473.0	9152.9
80°	1065.1	1176.7	1595.5	1915.2	1929.1	4136.0	11239.8	11384.9	10966.2	6559.3	2823.9
82.5°	563.9	625.4	1065.1	1125.1	1052.5	1384.7	4189.1	4193.3	3503.7	1758.8	838.9
85°	436.9	488.6	730.1	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°	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4	7289.4
2.5°	7307.5	7320.1	7335.4	7318.7	7313.1	7290.8	7253.1	7244.7	7225.2	7226.6	7237.7
5°	7371.7	7392.7	7384.3	7320.1	7243.3	7135.8	7024.1	6929.2	6866.4	6862.2	6858.0
7.5°	7494.6	7508.5	7442.9	7260.1	7045.1	6796.6	6562.1	6356.9	6232.7	6202.0	6195.0
10°	7687.2	7684.4	7504.3	7135.8	6707.3	6263.4	5886.5	5601.7	5435.6	5386.8	5374.2
12.5°	7902.2	7870.1	7525.3	6909.7	6229.9	5614.3	5136.9	4820.0	4646.9	4591.1	4577.1
15°	8124.1	8044.5	7473.6	6571.9	5643.6	4915.0	4413.8	4120.7	4027.2	3996.5	3990.9
17.5°	8330.7	8177.2	7325.7	6114.0	4975.0	4218.4	3827.5	3710.3	3732.6	3773.1	3774.5
20°	8533.1	8266.5	7088.4	5536.1	4270.0	3644.7	3512.1	3598.6	3704.7	3787.1	3798.2
22.5°	8732.7	8329.3	6782.7	4868.9	3639.1	3322.2	3415.8	3573.5	3694.9	3784.3	3799.6
25°	8900.2	8344.7	6361.1	4157.0	3200.8	3200.8	3369.7	3519.1	3639.1	3727.0	3742.4
27.5°	8961.7	8241.4	5766.4	3498.1	2980.2	3145.0	3305.5	3429.7	3531.6	3625.1	3641.9
30°	8985.4	8050.1	5079.7	2969.1	2889.5	3084.9	3218.9	3325.0	3421.3	3509.3	3524.6
32.5°	8989.6	7819.8	4351.0	2669.0	2826.7	3022.1	3111.5	3205.0	3308.3	3343.2	3348.8
35°	9016.1	7547.6	3583.3	2515.4	2768.1	2963.5	3034.7	3101.7	2934.2	2946.7	2957.9
37.5°	9092.9	7278.2	2941.2	2428.9	2730.4	2932.8	3017.9	2775.0	2643.8	2613.1	2608.9
40°	9236.6	6990.6	2465.2	2359.1	2716.4	2948.1	2910.4	2590.8	2364.6	2195.7	2170.6
42.5°	9436.3	6680.8	2160.8	2313.0	2726.2	3022.1	2761.1	2413.5	2038.0	1929.1	1915.2
45°	9661.0	6355.5	1996.1	2280.9	2759.7	3079.3	2730.4	2177.6	1885.9	1803.5	1796.5
47.5°	9878.8	5957.7	1911.0	2266.9	2805.8	3033.3	2600.6	2105.0	1813.3	1770.0	1774.2
50°	10128.6	5598.9	1859.3	2251.6	2846.2	3004.0	2454.0	2067.3	1785.4	1838.4	1894.2
52.5°	10339.4	5227.6	1813.3	2220.9	2861.6	2952.3	2416.3	2074.3	1785.4	1887.3	1940.3
55°	10589.3	4947.1	1760.2	2156.7	2832.3	2805.8	2389.8	2116.2	1806.3	1742.1	1747.7
57.5°	10911.7	4854.9	1701.6	2056.2	2734.6	2592.2	2377.2	2156.7	1793.7	1753.2	1767.2
60°	11358.4	4952.6	1677.9	1924.9	2582.4	2424.7	2378.6	2135.7	1705.8	1636.0	1637.4
62.5°	11784.2	5061.5	1676.5	1842.6	2395.4	2275.3	2346.5	2067.3	1661.1	1620.6	1636.0
65°	11923.7	4951.2	1609.5	1750.5	2184.6	2096.6	2287.9	1994.7	1627.6	1566.2	1563.4
67.5°	11736.7	4609.2	1474.1	1601.1	1943.1	1888.6	2211.1	1908.2	1574.6	1524.3	1515.9
70°	11181.1	3845.7	1306.6	1404.3	1668.1	1654.1	2089.7	1807.7	1503.4	1460.1	1423.8
72.5°	9686.1	2740.1	1101.4	1168.4	1358.2	1402.9	1922.1	1676.5	1402.9	1309.4	1253.5
75°	7955.2	2028.2	904.5	918.5	1031.6	1153.0	1691.8	1522.9	1284.2	1125.1	1081.8
77.5°	4871.7	1241.0	720.3	725.9	739.8	919.9	1393.1	1351.2	1133.5	938.0	907.3
80°	1577.4	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	797.1	644.9	524.9
85°	290.3	223.3	208.0	233.1	216.4	231.7	502.5	678.4	604.4	420.2	390.9
87.5°	103.3	99.1	79.6	107.5	92.1	82.4	153.5	342.0	399.2	289.0	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)