

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: P317713

Luminaire Tested: **GAN-SA9A-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317713  
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-SA9A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38793 lumens  
Efficiency: N/A  
Efficacy: 133.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

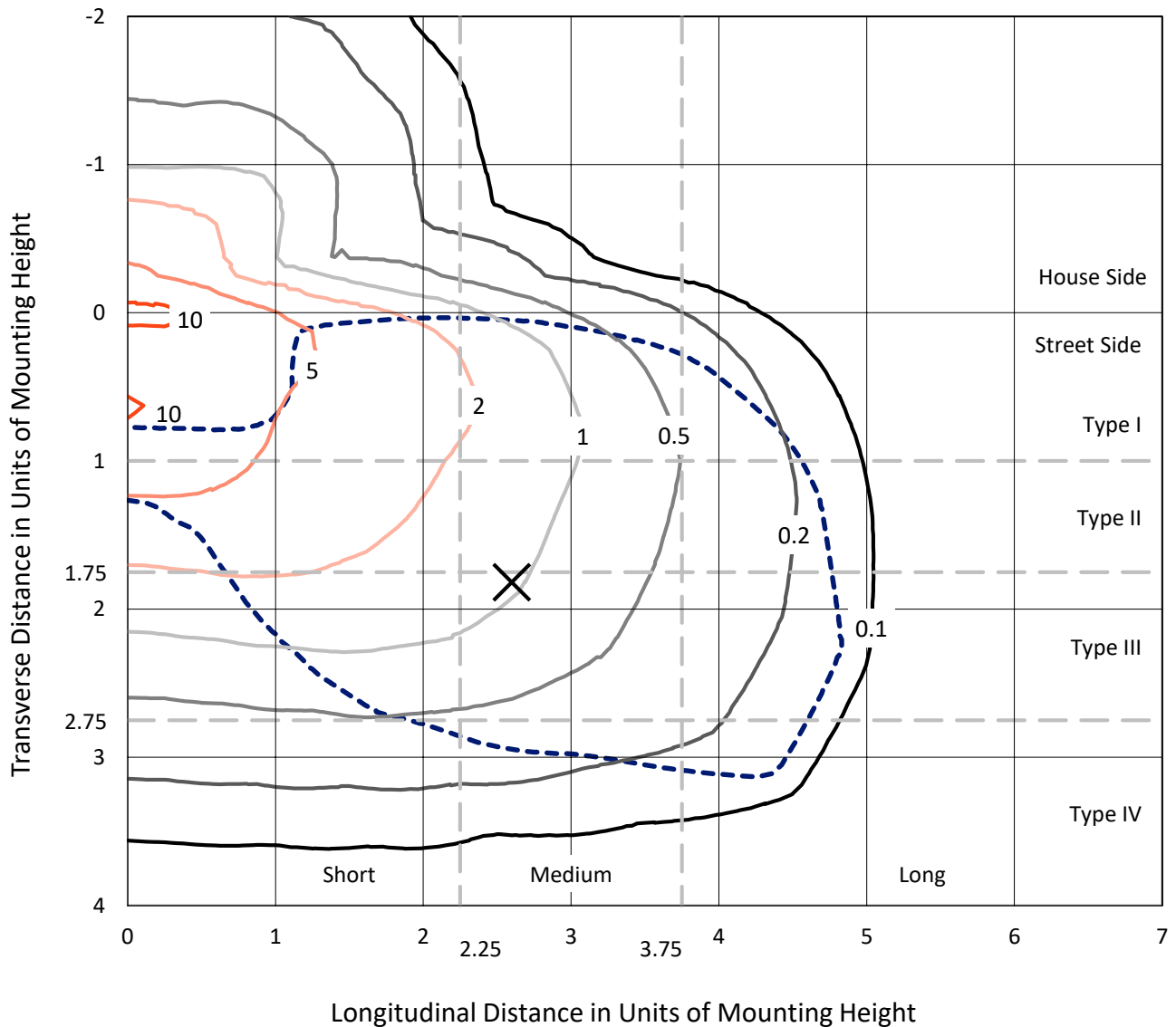
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

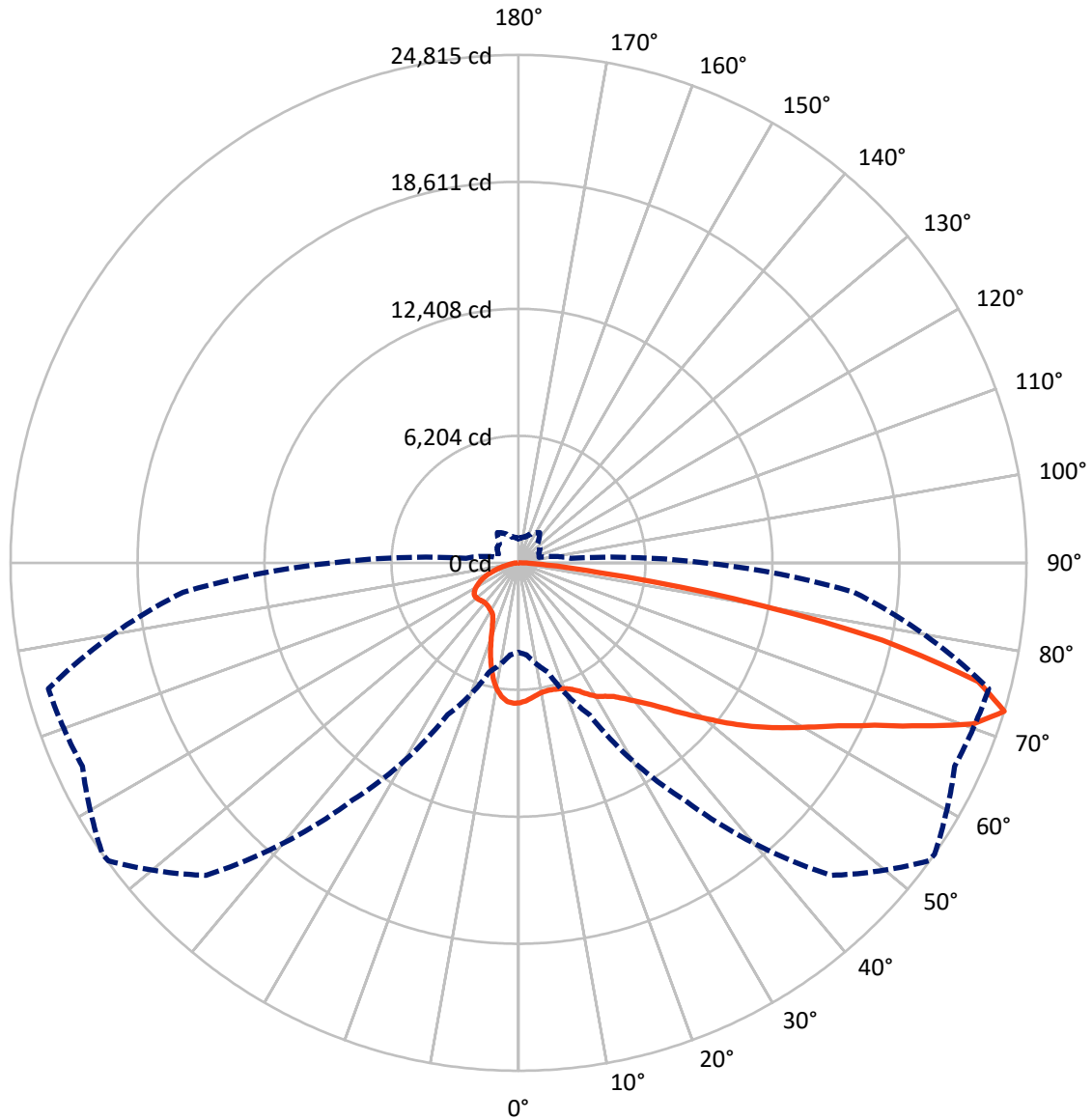
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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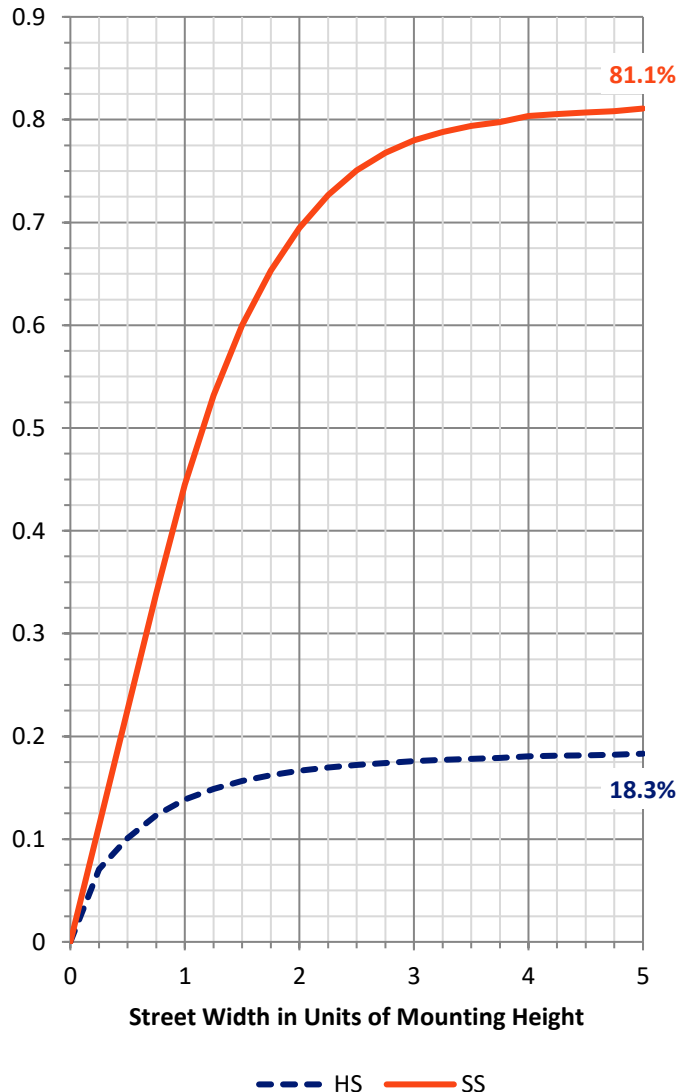
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7210.3	0.0	7210.3
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	31582.7	0.0	31582.7
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	38793.0	0.0	38793.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	619.1	1.6
10°-20°	1648.4	4.2
20°-30°	2717.8	7.0
30°-40°	4020.3	10.4
40°-50°	5611.5	14.5
50°-60°	7306.3	18.8
60°-70°	8979.2	23.1
70°-80°	7038.6	18.1
80°-90°	851.8	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°	38793.0	100.0
0°-180°	38793.0	100.0

**Coefficient of Utilization**

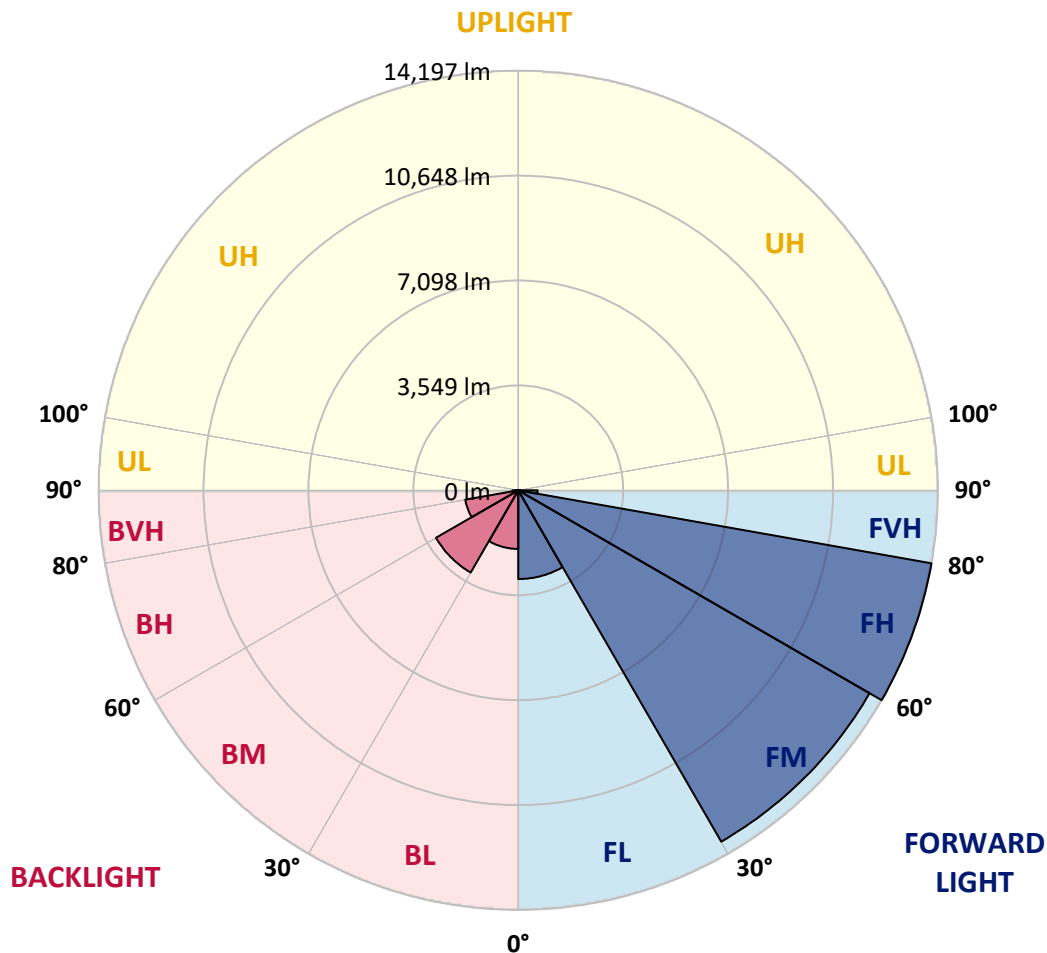


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3001.4	7.7			
FM (30°-60°)	13725.7	35.4			
FH (60°-80°)	14196.9	36.6			G5
FVH (80°-90°)	658.6	1.7			G4/750
BL (0°-30°)	1983.9	5.1	B3/2500		
BM (30°-60°)	3212.3	8.3	B3/5000		
BH (60°-80°)	1820.9	4.7	B3/2500		G3/2500
BVH (80°-90°)	193.2	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°	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3
2.5°	6619.5	6603.8	6623.4	6651.0	6681.1	6721.7	6745.3	6755.8	6796.4	6812.1	6846.2
5°	6312.9	6305.0	6337.8	6385.0	6451.8	6546.1	6622.1	6636.5	6744.0	6820.0	6889.4
7.5°	6090.2	6090.2	6128.2	6184.5	6259.2	6386.3	6493.7	6513.4	6695.5	6859.3	6987.7
10°	5913.3	5919.8	5964.4	6031.2	6119.0	6253.9	6396.8	6419.0	6682.4	6951.0	7155.4
12.5°	5795.3	5811.1	5851.7	5912.0	6020.7	6184.5	6365.3	6395.4	6709.9	7082.0	7357.2
15°	5870.0	5896.2	5900.2	5925.1	5985.3	6163.5	6383.7	6415.1	6768.9	7215.7	7586.5
17.5°	6197.6	6206.8	6166.1	6113.7	6084.9	6198.9	6438.7	6471.4	6839.6	7348.0	7806.6
20°	6695.5	6690.3	6602.5	6461.0	6314.2	6332.6	6529.1	6563.2	6935.3	7464.6	8026.7
22.5°	7324.4	7306.1	7171.1	6910.4	6660.1	6555.3	6687.6	6716.5	7079.4	7631.0	8262.6
25°	8087.0	8046.4	7868.2	7518.4	7150.2	6880.2	6926.1	6953.6	7289.1	7817.1	8478.8
27.5°	8891.5	8850.9	8624.2	8201.0	7711.0	7290.4	7255.0	7278.6	7527.5	7954.7	8638.6
30°	9732.7	9689.5	9482.5	9008.1	8305.8	7714.9	7561.6	7570.8	7695.2	8029.4	8769.7
32.5°	10577.8	10537.2	10305.3	9755.0	8951.8	8170.9	7783.0	7771.2	7796.1	8106.7	8917.7
35°	11434.8	11450.5	11179.3	10570.0	9667.2	8677.9	8045.1	8020.2	7965.2	8265.2	9127.4
37.5°	12352.0	12341.5	11990.3	11353.5	10415.4	9228.3	8421.1	8417.2	8227.2	8565.3	9456.2
40°	12965.2	12971.7	12758.1	12155.4	11171.4	9837.5	8903.3	8894.1	8645.2	9014.7	9887.3
42.5°	13204.9	13248.2	13303.2	12920.6	11962.8	10543.8	9478.5	9465.4	9228.3	9659.3	10394.4
45°	13222.0	13308.5	13649.1	13600.6	12764.7	11352.2	10213.6	10176.9	10006.6	10516.3	10999.7
47.5°	13075.2	13164.3	13730.4	14005.5	13481.4	12205.2	11073.1	11044.3	10897.5	11588.1	11654.9
50°	12754.2	12839.4	13562.6	14203.4	14071.0	13025.4	12063.7	11987.7	11909.1	12826.3	12404.4
52.5°	12152.8	12316.6	13338.6	14250.5	14423.5	13753.9	13105.4	13055.6	13098.8	14132.6	13155.2
55°	10728.5	10912.0	12760.8	14211.2	14684.2	14365.8	14147.0	14144.4	14368.5	15503.2	13961.0
57.5°	9930.6	10060.3	11584.1	14144.4	14993.5	14973.8	15178.2	15203.1	15639.4	16995.6	14804.8
60°	9479.8	9616.1	10988.0	13896.8	15473.0	15760.0	16230.4	16280.2	16931.4	18647.8	15820.2
62.5°	9069.7	9219.1	10618.5	13392.3	16037.8	16884.2	17490.8	17535.4	18299.3	20345.9	16801.6
65°	8368.7	8537.7	10077.3	13060.8	16551.4	18350.4	19093.3	19123.4	19870.3	22125.3	17552.4
67.5°	7378.2	7532.8	9056.6	12328.4	16931.4	20131.0	21223.8	21240.9	21428.2	23381.8	17936.3
70°	6221.2	6280.1	7602.2	10816.3	16481.9	21796.4	23558.7	23562.7	22848.6	24186.3	17873.4
72.5°	4371.1	4510.0	5518.9	8187.9	14164.1	21593.3	24770.7	24815.3	23508.9	23780.2	16445.2
75°	2680.8	2827.6	3461.7	4962.0	8985.9	16982.5	22886.6	23195.8	22270.7	21202.9	13434.2
77.5°	1792.5	1847.5	2258.9	2893.1	4071.0	9770.7	17595.7	18177.4	18501.1	15462.5	8591.5
80°	999.7	1104.6	1497.6	1797.7	1810.8	3882.3	10550.3	10686.6	10293.5	6157.0	2650.7
82.5°	529.4	587.0	999.7	1056.1	987.9	1299.8	3932.1	3936.1	3288.8	1650.9	787.5
85°	410.1	458.6	685.3	644.7	504.5	576.5	1297.2	1367.9	1119.0	676.1	256.8
87.5°	204.4	254.2	465.1	408.8	197.9	165.1	463.8	495.3	441.6	264.7	93.0
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°	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3	6842.3
2.5°	6859.3	6871.1	6885.5	6869.8	6864.5	6843.6	6808.2	6800.3	6782.0	6783.3	6793.8
5°	6919.6	6939.2	6931.3	6871.1	6799.0	6698.1	6593.3	6504.2	6445.2	6441.3	6437.4
7.5°	7034.9	7048.0	6986.4	6814.7	6613.0	6379.7	6159.6	5967.0	5850.4	5821.5	5815.0
10°	7215.7	7213.1	7044.0	6698.1	6295.9	5879.2	5525.4	5258.1	5102.2	5056.3	5044.6
12.5°	7417.5	7387.3	7063.7	6485.9	5847.8	5269.9	4821.8	4524.4	4361.9	4309.5	4296.4
15°	7625.8	7551.1	7015.2	6168.8	5297.4	4613.5	4143.1	3867.9	3780.1	3751.3	3746.1
17.5°	7819.7	7675.6	6876.3	5739.0	4669.8	3959.6	3592.8	3482.7	3503.7	3541.7	3543.0
20°	8009.7	7759.4	6653.6	5196.5	4008.1	3421.1	3296.6	3377.9	3477.5	3554.8	3565.3
22.5°	8197.1	7818.4	6366.6	4570.2	3415.9	3118.5	3206.2	3354.3	3468.3	3552.2	3566.6
25°	8354.3	7832.8	5970.9	3902.0	3004.5	3004.5	3163.0	3303.2	3415.9	3498.4	3512.8
27.5°	8412.0	7735.9	5412.7	3283.5	2797.4	2952.0	3102.7	3219.3	3315.0	3402.8	3418.5
30°	8434.2	7556.3	4768.1	2787.0	2712.3	2895.7	3021.5	3121.1	3211.5	3294.0	3308.4
32.5°	8438.2	7340.2	4084.1	2505.2	2653.3	2836.7	2920.6	3008.4	3105.3	3138.1	3143.3
35°	8463.1	7084.7	3363.5	2361.1	2598.3	2781.7	2848.5	2911.4	2754.2	2766.0	2776.5
37.5°	8535.1	6831.8	2760.7	2279.9	2562.9	2752.9	2832.8	2604.8	2481.7	2452.8	2448.9
40°	8670.1	6561.9	2313.9	2214.4	2549.8	2767.3	2731.9	2431.9	2219.6	2061.1	2037.5
42.5°	8857.5	6271.0	2028.3	2171.1	2559.0	2836.7	2591.7	2265.5	1913.0	1810.8	1797.7
45°	9068.4	5965.7	1873.7	2141.0	2590.4	2890.5	2562.9	2044.0	1770.2	1692.9	1686.3
47.5°	9272.8	5592.2	1793.8	2127.9	2633.7	2847.2	2441.0	1975.9	1702.0	1661.4	1665.4
50°	9507.3	5255.5	1745.3	2113.5	2671.6	2819.7	2303.5	1940.5	1675.8	1725.6	1778.0
52.5°	9705.2	4907.0	1702.0	2084.6	2686.1	2771.2	2268.1	1947.1	1675.8	1771.5	1821.3
55°	9939.7	4643.6	1652.3	2024.4	2658.5	2633.7	2243.2	1986.4	1695.5	1635.2	1640.5
57.5°	10242.4	4557.1	1597.2	1930.0	2566.8	2433.2	2231.4	2024.4	1683.7	1645.7	1658.8
60°	10661.7	4648.9	1574.9	1806.9	2424.0	2275.9	2232.7	2004.7	1601.2	1535.6	1537.0
62.5°	11061.3	4751.1	1573.6	1729.6	2248.4	2135.7	2202.6	1940.5	1559.2	1521.2	1535.6
65°	11192.4	4647.5	1510.7	1643.1	2050.6	1968.0	2147.5	1872.4	1527.8	1470.1	1467.5
67.5°	11016.8	4326.5	1383.6	1502.9	1823.9	1772.8	2075.5	1791.1	1478.0	1430.8	1423.0
70°	10495.3	3609.8	1226.4	1318.1	1565.8	1552.7	1961.5	1696.8	1411.2	1370.5	1336.5
72.5°	9092.0	2572.1	1033.8	1096.7	1274.9	1316.8	1804.2	1573.6	1316.8	1229.0	1176.6
75°	7467.3	1903.8	849.1	862.2	968.3	1082.3	1588.1	1429.5	1205.5	1056.1	1015.5
77.5°	4572.9	1164.8	676.1	681.3	694.4	863.5	1307.7	1268.3	1063.9	880.5	851.7
80°	1480.6	635.5	488.7	513.6	474.3	632.9	1011.5	1079.7	913.3	736.4	704.9
82.5°	563.4	370.8	330.2	347.2	328.9	424.5	737.7	864.8	748.2	605.3	492.7
85°	272.5	209.6	195.2	218.8	203.1	217.5	471.7	636.8	567.3	394.4	366.9
87.5°	97.0	93.0	74.7	100.9	86.5	77.3	144.1	321.0	374.7	271.2	242.4
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)