

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: P317712

Luminaire Tested: **GAN-SA8A-730-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317712  
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-SA8A-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 34777 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G5

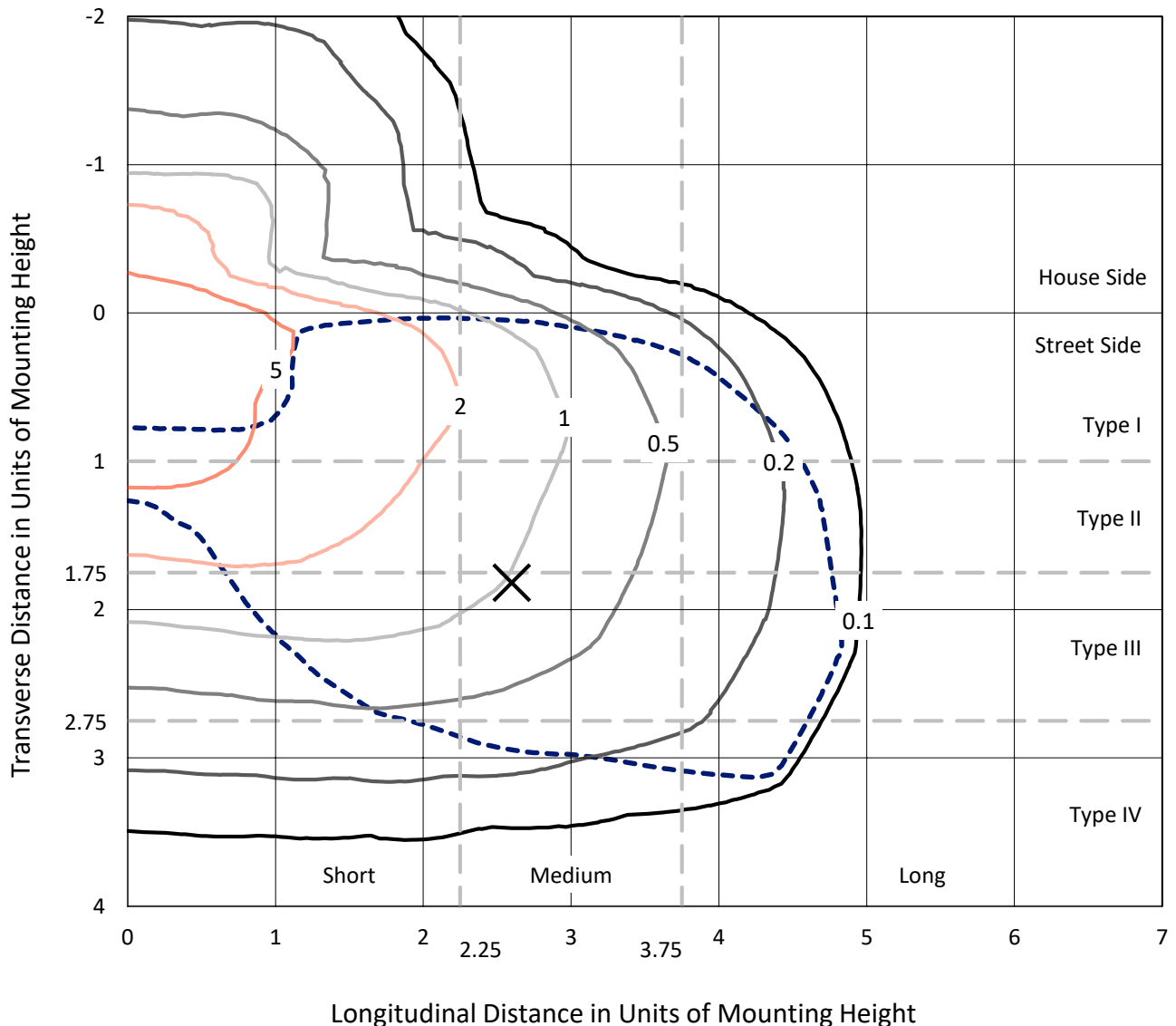
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

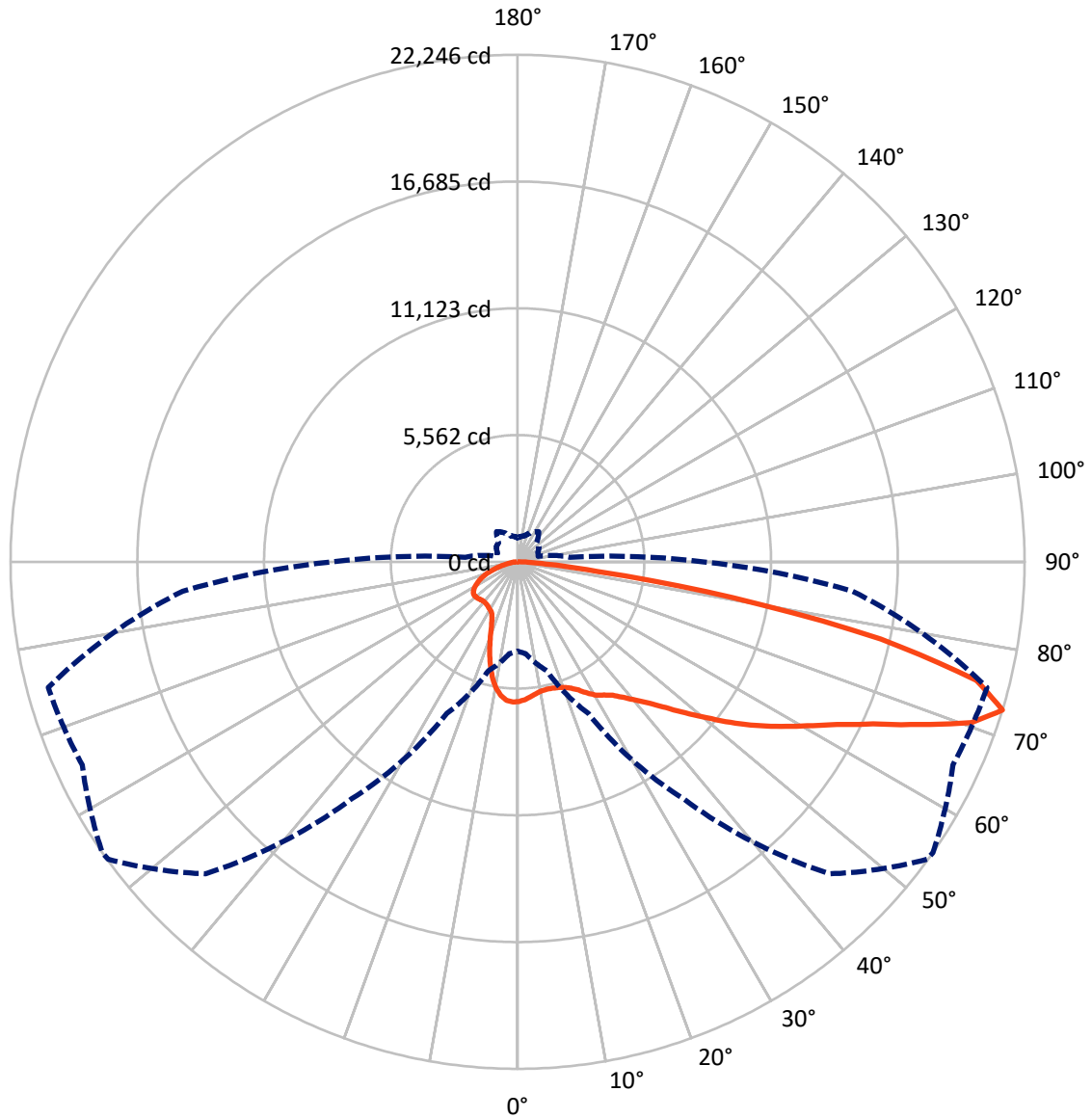
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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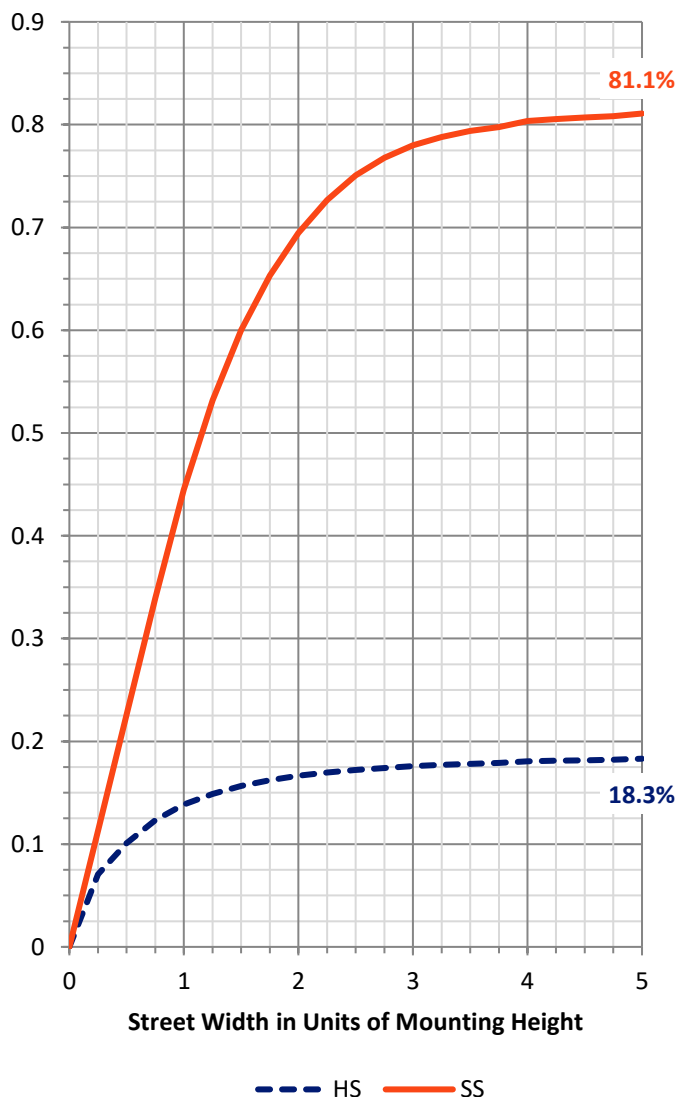
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6463.9	0.0	6463.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	28313.1	0.0	28313.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	34777.0	0.0	34777.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	555.0	1.6
10°-20°	1477.7	4.2
20°-30°	2436.4	7.0
30°-40°	3604.1	10.4
40°-50°	5030.5	14.5
50°-60°	6549.9	18.8
60°-70°	8049.7	23.1
70°-80°	6310.0	18.1
80°-90°	763.6	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°	34777.0	100.0
0°-180°	34777.0	100.0

**Coefficient of Utilization**

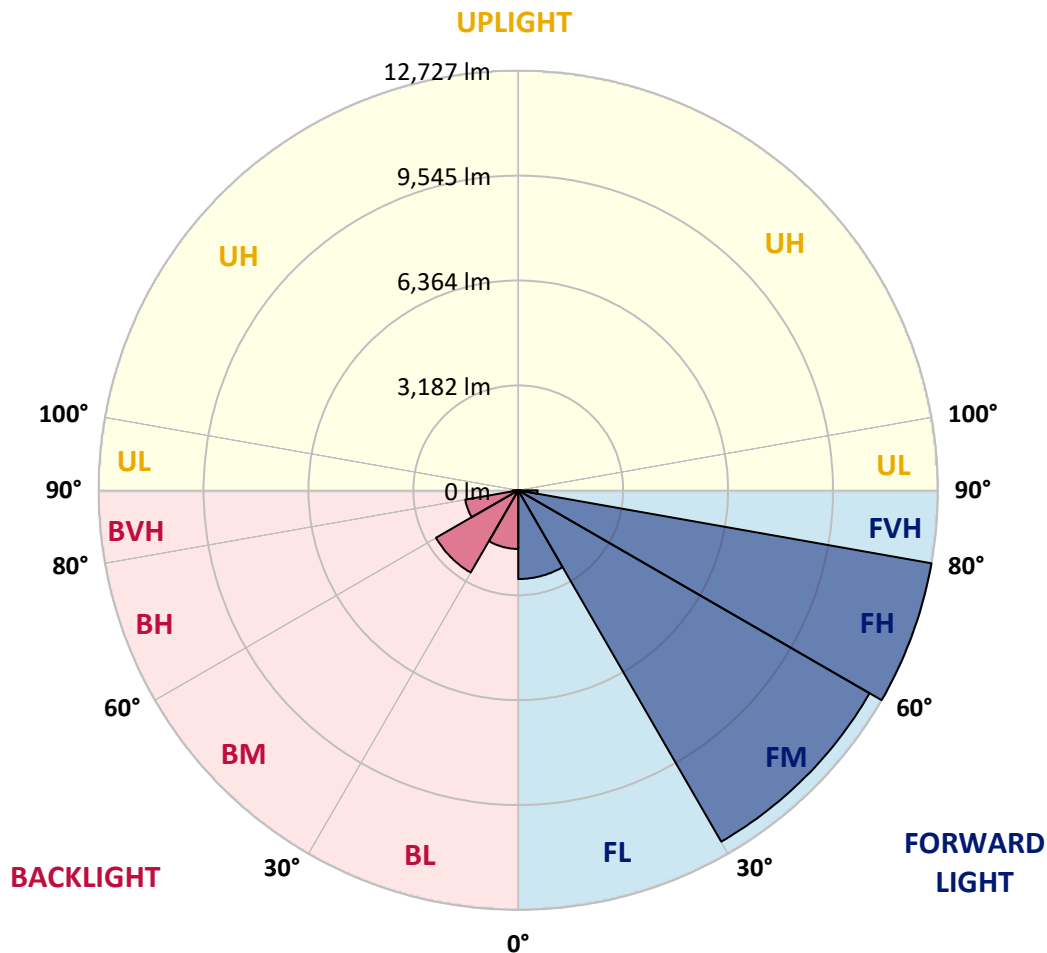


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2690.7	7.7			
FM (30°-60°)	12304.8	35.4			
FH (60°-80°)	12727.2	36.6			G5
FVH (80°-90°)	590.4	1.7			G4/750
BL (0°-30°)	1778.5	5.1	B3/2500		
BM (30°-60°)	2879.8	8.3	B3/5000		
BH (60°-80°)	1632.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	173.2	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°	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9
2.5°	5934.2	5920.1	5937.8	5962.4	5989.4	6025.8	6047.0	6056.4	6092.8	6106.9	6137.4
5°	5659.4	5652.3	5681.7	5724.0	5783.9	5868.4	5936.6	5949.5	6045.8	6113.9	6176.2
7.5°	5459.7	5459.7	5493.7	5544.3	5611.2	5725.1	5821.5	5839.1	6002.4	6149.2	6264.3
10°	5301.1	5307.0	5346.9	5406.8	5485.5	5606.5	5734.5	5754.5	5990.6	6231.4	6414.7
12.5°	5195.4	5209.5	5245.9	5299.9	5397.4	5544.3	5706.3	5733.4	6015.3	6348.9	6595.5
15°	5262.3	5285.8	5289.4	5311.7	5365.7	5525.5	5722.8	5751.0	6068.1	6468.7	6801.1
17.5°	5556.0	5564.2	5527.8	5480.8	5455.0	5557.2	5772.1	5801.5	6131.6	6587.3	6998.4
20°	6002.4	5997.7	5919.0	5792.1	5660.5	5677.0	5853.2	5883.7	6217.3	6691.9	7195.8
22.5°	6566.2	6549.7	6428.7	6195.0	5970.6	5876.7	5995.3	6021.2	6346.5	6841.0	7407.2
25°	7249.8	7213.4	7053.6	6740.0	6410.0	6168.0	6209.1	6233.8	6534.5	7007.8	7601.0
27.5°	7971.0	7934.6	7731.4	7352.0	6912.7	6535.6	6503.9	6525.1	6748.2	7131.2	7744.3
30°	8725.1	8686.4	8500.8	8075.6	7446.0	6916.2	6778.8	6787.0	6898.6	7198.1	7861.8
32.5°	9482.8	9446.4	9238.5	8745.1	8025.1	7325.0	6977.3	6966.7	6989.0	7267.4	7994.5
35°	10251.0	10265.1	10021.9	9475.7	8666.4	7779.6	7212.2	7189.9	7140.6	7409.6	8182.5
37.5°	11073.2	11063.8	10749.0	10178.2	9337.1	8272.9	7549.3	7545.8	7375.5	7678.6	8477.3
40°	11623.0	11628.8	11437.4	10897.0	10014.9	8819.1	7981.6	7973.4	7750.2	8081.5	8863.8
42.5°	11837.9	11876.7	11926.0	11583.0	10724.4	9452.2	8497.3	8485.5	8272.9	8659.4	9318.3
45°	11853.2	11930.7	12236.1	12192.7	11443.2	10177.0	9156.2	9123.3	8970.6	9427.6	9861.0
47.5°	11721.6	11801.5	12308.9	12555.6	12085.8	10941.7	9926.8	9901.0	9769.4	10388.4	10448.3
50°	11433.8	11510.2	12158.6	12733.0	12614.3	11677.0	10814.8	10746.7	10676.2	11498.4	11120.2
52.5°	10894.7	11041.5	11957.7	12775.3	12930.3	12330.1	11748.6	11704.0	11742.8	12669.6	11793.3
55°	9617.9	9782.3	11439.7	12740.0	13164.1	12878.6	12682.5	12680.1	12881.0	13898.2	12515.7
57.5°	8902.5	9018.8	10384.9	12680.1	13441.3	13423.7	13606.9	13629.2	14020.4	15236.1	13272.1
60°	8498.4	8620.6	9850.4	12458.1	13871.2	14128.4	14550.1	14594.8	15178.6	16717.3	14182.5
62.5°	8130.8	8264.7	9519.2	12005.9	14377.5	15136.3	15680.1	15720.1	16404.9	18239.6	15062.3
65°	7502.4	7653.9	9034.1	11708.7	14837.9	16450.7	17116.7	17143.7	17813.3	19834.8	15735.3
67.5°	6614.3	6752.9	8119.0	11052.1	15178.6	18047.0	19026.6	19041.9	19209.9	20961.3	16079.5
70°	5577.1	5630.0	6815.2	9696.6	14775.7	19540.0	21119.8	21123.4	20483.2	21682.5	16023.1
72.5°	3918.6	4043.1	4947.5	7340.3	12697.7	19357.9	22206.4	22246.3	21075.2	21318.3	14742.8
75°	2403.3	2534.9	3103.4	4448.3	8055.6	15224.4	20517.3	20794.5	19965.2	19007.9	12043.5
77.5°	1606.9	1656.2	2025.1	2593.6	3649.6	8759.2	15774.1	16295.6	16585.8	13861.8	7702.0
80°	896.2	990.2	1342.6	1611.6	1623.3	3480.4	9458.1	9580.3	9227.9	5519.6	2376.3
82.5°	474.6	526.2	896.2	946.8	885.7	1165.2	3525.1	3528.6	2948.3	1480.0	706.0
85°	367.7	411.1	614.3	577.9	452.2	516.8	1162.9	1226.3	1003.1	606.1	230.2
87.5°	183.2	227.9	417.0	366.5	177.4	148.0	415.8	444.0	395.9	237.3	83.4
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°	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9	6133.9
2.5°	6149.2	6159.8	6172.7	6158.6	6153.9	6135.1	6103.4	6096.3	6079.9	6081.1	6090.5
5°	6203.2	6220.8	6213.8	6159.8	6095.2	6004.7	5910.7	5830.9	5778.0	5774.5	5771.0
7.5°	6306.6	6318.3	6263.1	6109.2	5928.4	5719.3	5521.9	5349.3	5244.7	5218.9	5213.0
10°	6468.7	6466.3	6314.8	6004.7	5644.1	5270.6	4953.4	4713.8	4574.0	4532.9	4522.3
12.5°	6649.6	6622.6	6332.4	5814.4	5242.4	4724.4	4322.6	4056.0	3910.3	3863.4	3851.6
15°	6836.3	6769.4	6289.0	5530.2	4749.0	4135.9	3714.2	3467.5	3388.8	3363.0	3358.3
17.5°	7010.2	6881.0	6164.5	5144.9	4186.4	3549.7	3220.8	3122.2	3141.0	3175.0	3176.2
20°	7180.5	6956.2	5964.8	4658.6	3593.2	3067.0	2955.4	3028.2	3117.5	3186.8	3196.2
22.5°	7348.5	7009.0	5707.5	4097.1	3062.3	2795.6	2874.3	3007.1	3109.2	3184.4	3197.3
25°	7489.4	7021.9	5352.8	3498.0	2693.4	2693.4	2835.6	2961.2	3062.3	3136.3	3149.2
27.5°	7541.1	6935.0	4852.4	2943.6	2507.8	2646.4	2781.5	2886.1	2971.8	3050.5	3064.6
30°	7561.1	6774.1	4274.5	2498.4	2431.5	2595.9	2708.7	2798.0	2879.0	2953.0	2965.9
32.5°	7564.6	6580.3	3661.3	2245.9	2378.6	2543.1	2618.2	2696.9	2783.9	2813.2	2817.9
35°	7586.9	6351.2	3015.3	2116.7	2329.3	2493.7	2553.6	2610.0	2469.1	2479.6	2489.0
37.5°	7651.5	6124.5	2474.9	2043.9	2297.6	2467.9	2539.5	2335.2	2224.7	2198.9	2195.4
40°	7772.5	5882.5	2074.4	1985.1	2285.8	2480.8	2449.1	2180.1	1989.8	1847.7	1826.5
42.5°	7940.5	5621.8	1818.3	1946.4	2294.1	2543.1	2323.4	2030.9	1715.0	1623.3	1611.6
45°	8129.6	5348.1	1679.7	1919.3	2322.2	2591.2	2297.6	1832.4	1586.9	1517.6	1511.7
47.5°	8312.9	5013.3	1608.1	1907.6	2361.0	2552.5	2188.3	1771.3	1525.8	1489.4	1493.0
50°	8523.1	4711.4	1564.6	1894.7	2395.1	2527.8	2065.0	1739.6	1502.4	1547.0	1594.0
52.5°	8700.5	4399.0	1525.8	1868.8	2408.0	2484.3	2033.3	1745.5	1502.4	1588.1	1632.7
55°	8910.7	4162.9	1481.2	1814.8	2383.3	2361.0	2011.0	1780.7	1520.0	1465.9	1470.6
57.5°	9182.1	4085.4	1431.9	1730.2	2301.1	2181.3	2000.4	1814.8	1509.4	1475.3	1487.1
60°	9558.0	4167.6	1411.9	1619.8	2173.1	2040.3	2001.6	1797.2	1435.4	1376.7	1377.8
62.5°	9916.2	4259.2	1410.7	1550.5	2015.7	1914.6	1974.6	1739.6	1397.8	1363.7	1376.7
65°	10033.7	4166.4	1354.3	1473.0	1838.3	1764.3	1925.2	1678.5	1369.6	1317.9	1315.6
67.5°	9876.3	3878.6	1240.4	1347.3	1635.1	1589.3	1860.6	1605.7	1325.0	1282.7	1275.6
70°	9408.8	3236.1	1099.5	1181.7	1403.7	1391.9	1758.4	1521.1	1265.1	1228.7	1198.1
72.5°	8150.8	2305.8	926.8	983.2	1142.9	1180.5	1617.5	1410.7	1180.5	1101.8	1054.8
75°	6694.2	1706.7	761.2	772.9	868.1	970.2	1423.7	1281.5	1080.7	946.8	910.3
77.5°	4099.5	1044.2	606.1	610.8	622.6	774.1	1172.3	1137.0	953.8	789.4	763.5
80°	1327.3	569.7	438.1	460.5	425.2	567.3	906.8	967.9	818.7	660.1	632.0
82.5°	505.1	332.4	296.0	311.3	294.8	380.6	661.3	775.3	670.7	542.7	441.7
85°	244.3	187.9	175.0	196.2	182.1	195.0	422.9	570.9	508.6	353.6	328.9
87.5°	86.9	83.4	67.0	90.4	77.5	69.3	129.2	287.8	335.9	243.1	217.3
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)