

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: P317759

Luminaire Tested: **GAN-SA5B-740-U-T3R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317759  
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-SA5B-740-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 29203 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B3 - U0 - G4

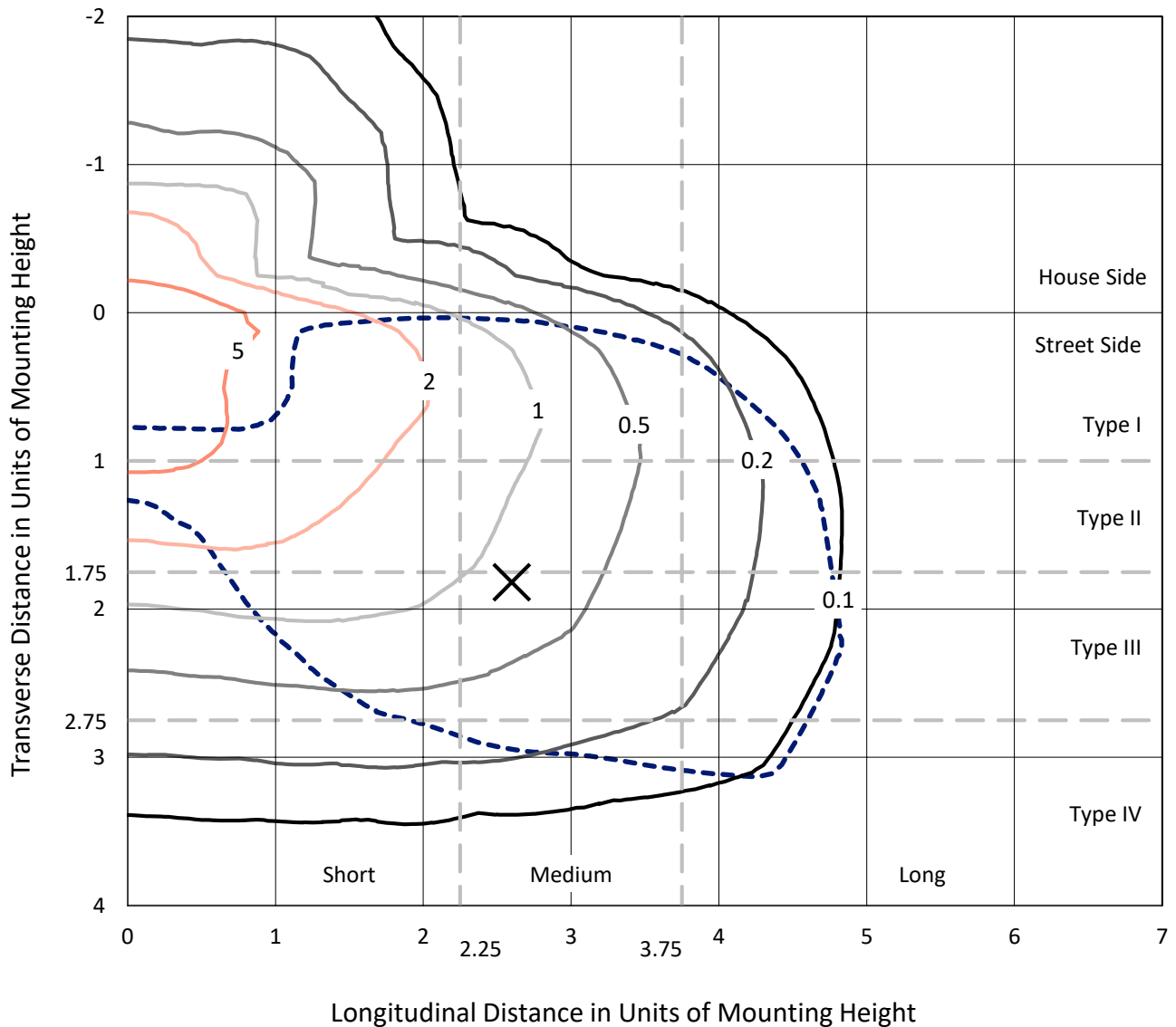
Input Watts (W): 210  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

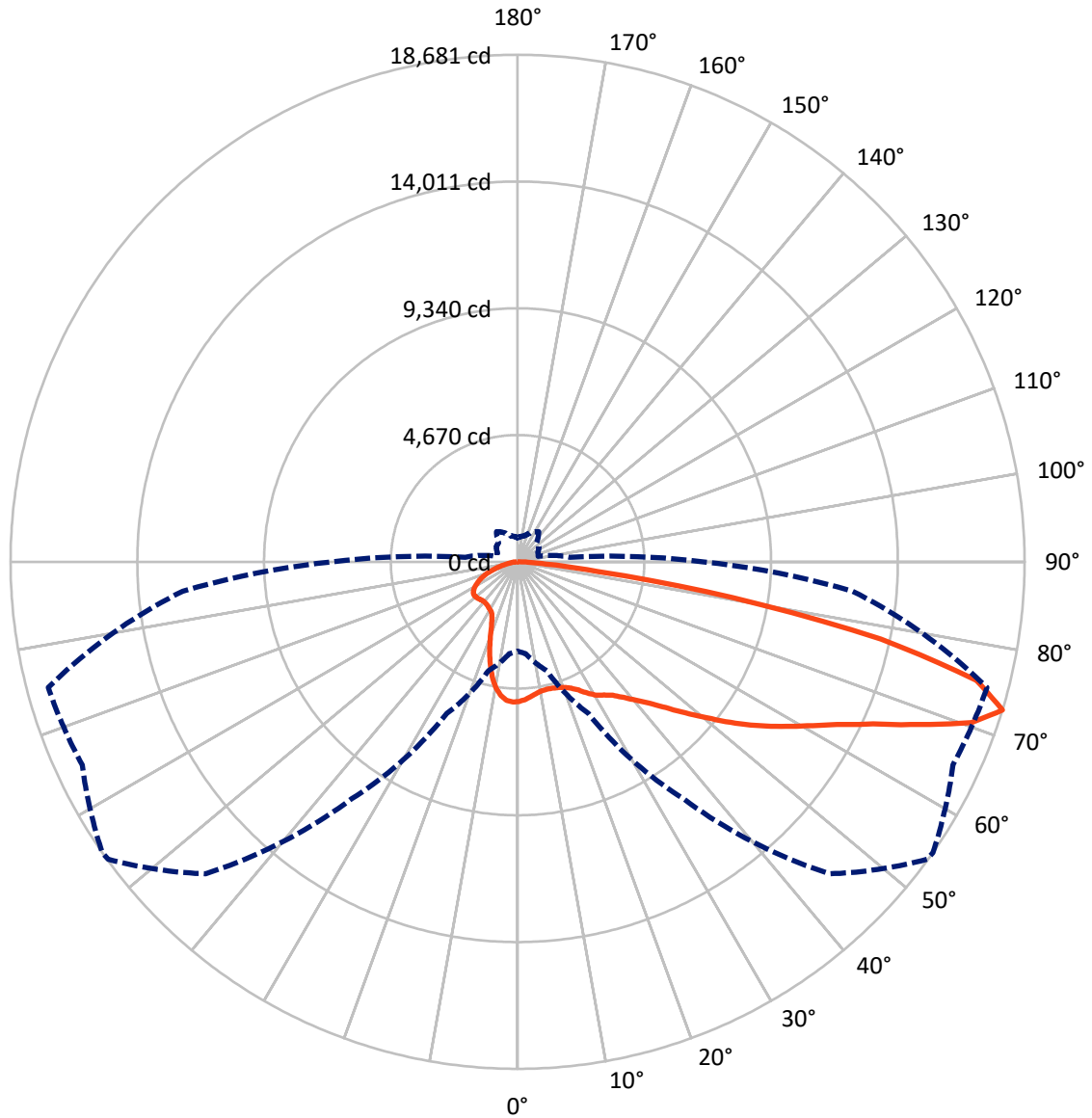
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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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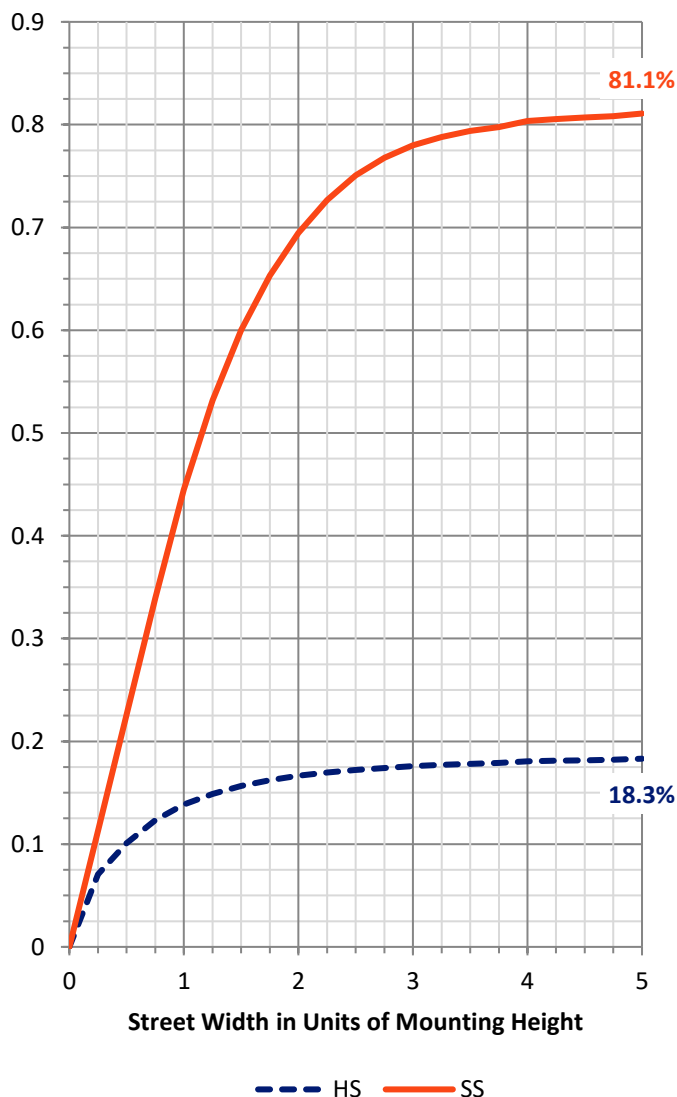
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5427.9	0.0	5427.9
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	23775.1	0.0	23775.1
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	29203.0	0.0	29203.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	466.1	1.6
10°-20°	1240.9	4.2
20°-30°	2045.9	7.0
30°-40°	3026.4	10.4
40°-50°	4224.3	14.5
50°-60°	5500.1	18.8
60°-70°	6759.5	23.1
70°-80°	5298.6	18.1
80°-90°	641.2	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°	29203.0	100.0
0°-180°	29203.0	100.0

**Coefficient of Utilization**

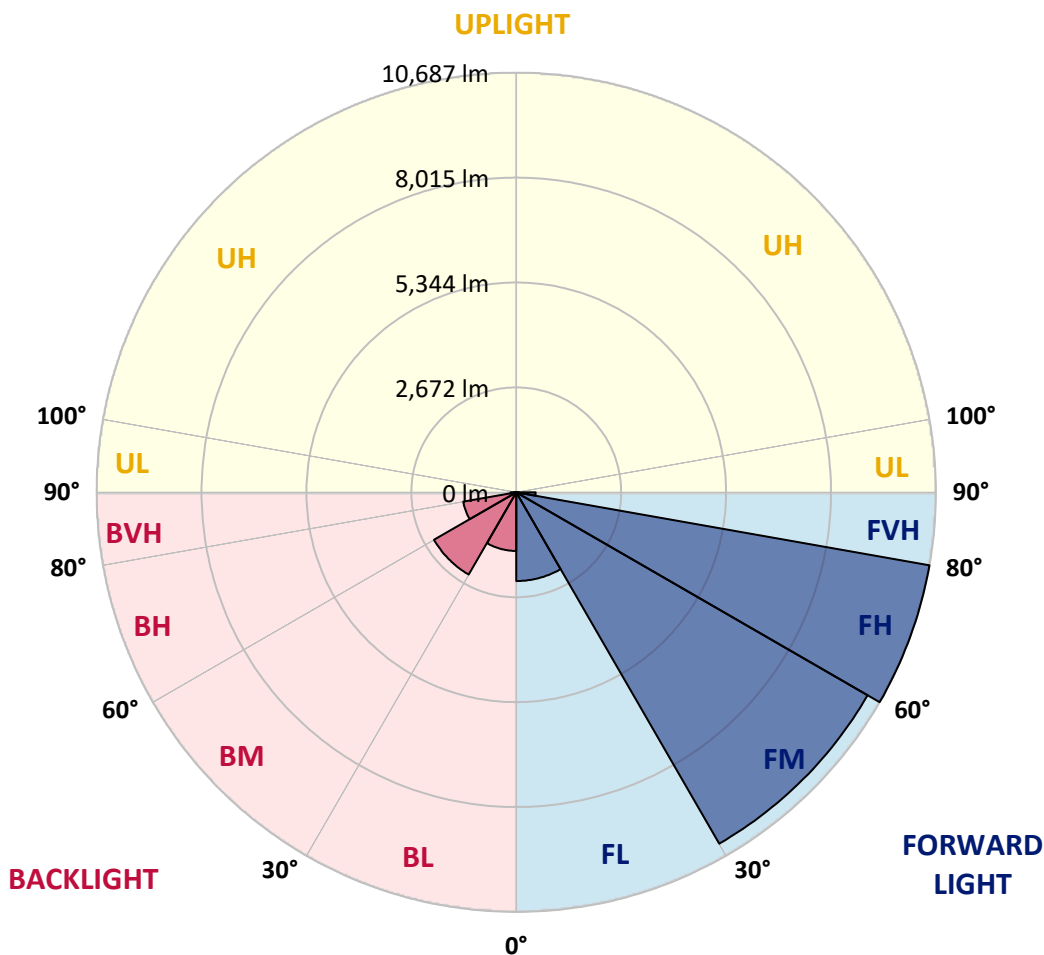


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2259.5	7.7			
FM (30°-60°)	10332.6	35.4			
FH (60°-80°)	10687.3	36.6			G4/12000
FVH (80°-90°)	495.8	1.7			G3/500
BL (0°-30°)	1493.4	5.1	B3/2500		
BM (30°-60°)	2418.2	8.3	B2/2500		
BH (60°-80°)	1370.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.5	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-G4**  
 Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8
2.5°	4983.1	4971.3	4986.1	5006.8	5029.5	5060.0	5077.8	5085.7	5116.3	5128.1	5153.7
5°	4752.3	4746.4	4771.0	4806.5	4856.8	4927.9	4985.1	4995.9	5076.8	5134.0	5186.3
7.5°	4584.6	4584.6	4613.2	4655.6	4711.8	4807.5	4888.4	4903.2	5040.3	5163.6	5260.3
10°	4451.5	4456.4	4489.9	4540.2	4606.3	4707.9	4815.4	4832.2	5030.4	5232.6	5386.5
12.5°	4362.7	4374.5	4405.1	4450.5	4532.3	4655.6	4791.7	4814.4	5051.2	5331.3	5538.4
15°	4418.9	4438.6	4441.6	4460.3	4505.7	4639.8	4805.6	4829.2	5095.5	5431.9	5711.0
17.5°	4665.5	4672.4	4641.8	4602.4	4580.7	4666.5	4847.0	4871.6	5148.8	5531.5	5876.7
20°	5040.3	5036.4	4970.3	4863.7	4753.3	4767.1	4915.0	4940.7	5220.8	5619.3	6042.5
22.5°	5513.8	5500.0	5398.4	5202.1	5013.7	4934.8	5034.4	5056.1	5329.3	5744.6	6220.0
25°	6087.8	6057.2	5923.1	5659.7	5382.6	5179.4	5213.9	5234.6	5487.1	5884.6	6382.7
27.5°	6693.5	6662.9	6492.2	6173.6	5804.7	5488.1	5461.5	5479.2	5666.6	5988.2	6503.1
30°	7326.7	7294.1	7138.3	6781.2	6252.5	5807.7	5692.3	5699.2	5792.9	6044.4	6601.7
32.5°	7962.9	7932.3	7757.7	7343.5	6738.8	6151.0	5859.0	5850.1	5868.9	6102.6	6713.2
35°	8608.0	8619.8	8415.6	7957.0	7277.4	6532.7	6056.3	6037.5	5996.1	6222.0	6871.0
37.5°	9298.4	9290.5	9026.2	8546.8	7840.6	6946.9	6339.3	6336.4	6193.4	6447.8	7118.6
40°	9760.0	9765.0	9604.2	9150.5	8409.7	7405.6	6702.3	6695.4	6508.0	6786.2	7443.1
42.5°	9940.6	9973.1	10014.5	9726.5	9005.5	7937.3	7135.3	7125.5	6946.9	7271.5	7824.8
45°	9953.4	10018.5	10274.9	10238.4	9609.1	8545.8	7688.7	7661.1	7532.8	7916.5	8280.5
47.5°	9842.9	9910.0	10336.1	10543.2	10148.7	9188.0	8335.7	8314.0	8203.6	8723.4	8773.7
50°	9601.2	9665.4	10209.8	10692.2	10592.5	9805.4	9081.4	9024.2	8965.0	9655.5	9337.9
52.5°	9148.5	9271.8	10041.2	10727.7	10857.9	10353.8	9865.6	9828.1	9860.7	10638.9	9903.1
55°	8076.3	8214.4	9606.2	10698.1	11054.2	10814.5	10649.7	10647.8	10816.4	11670.6	10509.7
57.5°	7475.6	7573.3	8720.4	10647.8	11286.9	11272.1	11426.0	11444.8	11773.2	12794.1	11144.9
60°	7136.3	7238.9	8271.6	10461.4	11647.9	11864.0	12218.1	12255.5	12745.8	14037.9	11909.3
62.5°	6827.6	6940.0	7993.5	10081.6	12073.1	12710.3	13166.9	13200.5	13775.5	15316.2	12648.1
65°	6299.9	6427.1	7586.1	9832.1	12459.7	13814.0	14373.3	14395.9	14958.2	16655.7	13213.3
67.5°	5554.2	5670.6	6817.7	9280.7	12745.8	15154.5	15977.1	15989.9	16131.0	17601.6	13502.3
70°	4683.2	4727.6	5722.9	8142.4	12407.4	16408.1	17734.8	17737.7	17200.2	18207.3	13455.0
72.5°	3290.5	3395.1	4154.6	6163.8	10662.6	16255.2	18647.2	18680.7	17697.3	17901.5	12379.8
75°	2018.1	2128.6	2606.0	3735.4	6764.5	12784.2	17228.8	17461.6	16765.2	15961.3	10113.2
77.5°	1349.3	1390.8	1700.5	2177.9	3064.6	7355.3	13245.9	13683.8	13927.4	11640.1	6467.6
80°	752.6	831.5	1127.4	1353.3	1363.2	2922.6	7942.2	8044.8	7748.9	4634.9	1995.4
82.5°	398.5	441.9	752.6	795.0	743.7	978.5	2960.1	2963.0	2475.8	1242.8	592.8
85°	308.7	345.2	515.9	485.3	379.7	434.0	976.5	1029.8	842.4	509.0	193.3
87.5°	153.9	191.4	350.2	307.7	148.9	124.3	349.2	372.8	332.4	199.2	70.0
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°	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8	5150.8
2.5°	5163.6	5172.5	5183.3	5171.5	5167.5	5151.8	5125.1	5119.2	5105.4	5106.4	5114.3
5°	5209.0	5223.8	5217.9	5172.5	5118.2	5042.3	4963.4	4896.3	4851.9	4849.0	4846.0
7.5°	5295.8	5305.6	5259.3	5130.1	4978.2	4802.6	4636.9	4491.9	4404.1	4382.4	4377.5
10°	5431.9	5429.9	5302.7	5042.3	4739.5	4425.8	4159.5	3958.3	3840.9	3806.4	3797.5
12.5°	5583.8	5561.1	5317.5	4882.5	4402.1	3967.1	3629.8	3405.9	3283.6	3244.1	3234.3
15°	5740.6	5684.4	5281.0	4643.8	3987.9	3473.0	3118.9	2911.7	2845.7	2824.0	2820.0
17.5°	5886.6	5778.1	5176.4	4320.3	3515.4	2980.8	2704.6	2621.7	2637.5	2666.1	2667.1
20°	6029.6	5841.2	5008.7	3911.9	3017.3	2575.4	2481.7	2542.8	2617.8	2676.0	2683.9
22.5°	6170.7	5885.6	4792.7	3440.4	2571.4	2347.5	2413.6	2525.1	2610.9	2674.0	2684.9
25°	6289.0	5896.5	4494.9	2937.4	2261.7	2261.7	2381.1	2486.6	2571.4	2633.6	2644.4
27.5°	6332.4	5823.5	4074.7	2471.8	2105.9	2222.3	2335.7	2423.5	2495.5	2561.6	2573.4
30°	6349.2	5688.3	3589.4	2098.0	2041.8	2179.9	2274.6	2349.5	2417.6	2479.7	2490.6
32.5°	6352.2	5525.6	3074.5	1885.9	1997.4	2135.5	2198.6	2264.7	2337.7	2362.3	2366.3
35°	6370.9	5333.3	2532.0	1777.4	1956.0	2094.0	2144.4	2191.7	2073.3	2082.2	2090.1
37.5°	6425.2	5142.9	2078.3	1716.3	1929.3	2072.3	2132.5	1960.9	1868.2	1846.5	1843.5
40°	6526.8	4939.7	1741.9	1667.0	1919.5	2083.2	2056.6	1830.7	1670.9	1551.5	1533.8
42.5°	6667.8	4720.7	1526.9	1634.4	1926.4	2135.5	1951.0	1705.4	1440.1	1363.2	1353.3
45°	6826.6	4490.9	1410.5	1611.7	1950.0	2175.9	1929.3	1538.7	1332.6	1274.4	1269.4
47.5°	6980.5	4209.8	1350.3	1601.9	1982.6	2143.4	1837.6	1487.4	1281.3	1250.7	1253.7
50°	7157.0	3956.3	1313.8	1591.0	2011.2	2122.7	1734.0	1460.8	1261.6	1299.0	1338.5
52.5°	7306.0	3693.9	1281.3	1569.3	2022.0	2086.2	1707.4	1465.7	1261.6	1333.6	1371.0
55°	7482.5	3495.7	1243.8	1523.9	2001.3	1982.6	1688.7	1495.3	1276.4	1231.0	1234.9
57.5°	7710.4	3430.6	1202.4	1452.9	1932.3	1831.7	1679.8	1523.9	1267.5	1238.9	1248.7
60°	8026.0	3499.6	1185.6	1360.2	1824.8	1713.3	1680.8	1509.1	1205.3	1156.0	1157.0
62.5°	8326.9	3576.5	1184.6	1302.0	1692.6	1607.8	1658.1	1460.8	1173.8	1145.2	1156.0
65°	8425.5	3498.6	1137.3	1236.9	1543.7	1481.5	1616.6	1409.5	1150.1	1106.7	1104.7
67.5°	8293.3	3257.0	1041.6	1131.4	1373.0	1334.5	1562.4	1348.4	1112.6	1077.1	1071.2
70°	7900.8	2717.4	923.2	992.3	1178.7	1168.8	1476.6	1277.3	1062.3	1031.7	1006.1
72.5°	6844.4	1936.2	778.2	825.6	959.7	991.3	1358.2	1184.6	991.3	925.2	885.8
75°	5621.3	1433.2	639.2	649.0	728.9	814.7	1195.5	1076.1	907.5	795.0	764.4
77.5°	3442.4	876.9	509.0	512.9	522.8	650.0	984.4	954.8	800.9	662.8	641.1
80°	1114.6	478.4	367.9	386.7	357.1	476.4	761.5	812.8	687.5	554.3	530.7
82.5°	424.1	279.1	248.6	261.4	247.6	319.6	555.3	651.0	563.2	455.7	370.9
85°	205.2	157.8	147.0	164.7	152.9	163.7	355.1	479.4	427.1	296.9	276.2
87.5°	73.0	70.0	56.2	75.9	65.1	58.2	108.5	241.7	282.1	204.2	182.5
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)