

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: P317789

Luminaire Tested: **GAN-SA5A-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317789
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-SA5A-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 23814 lumens
Efficiency: N/A
Efficacy: 147.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

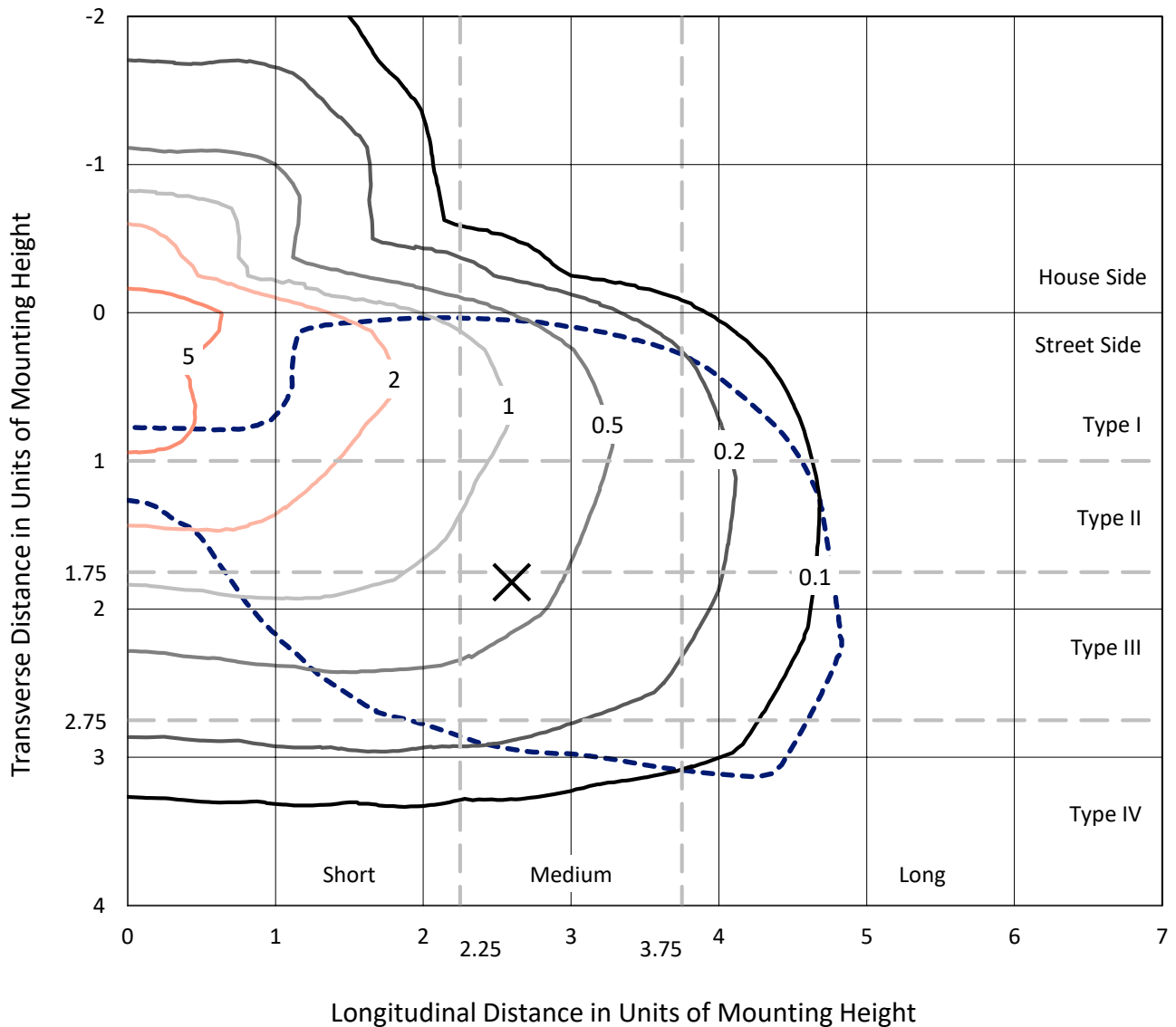
Input Watts (W): 162
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

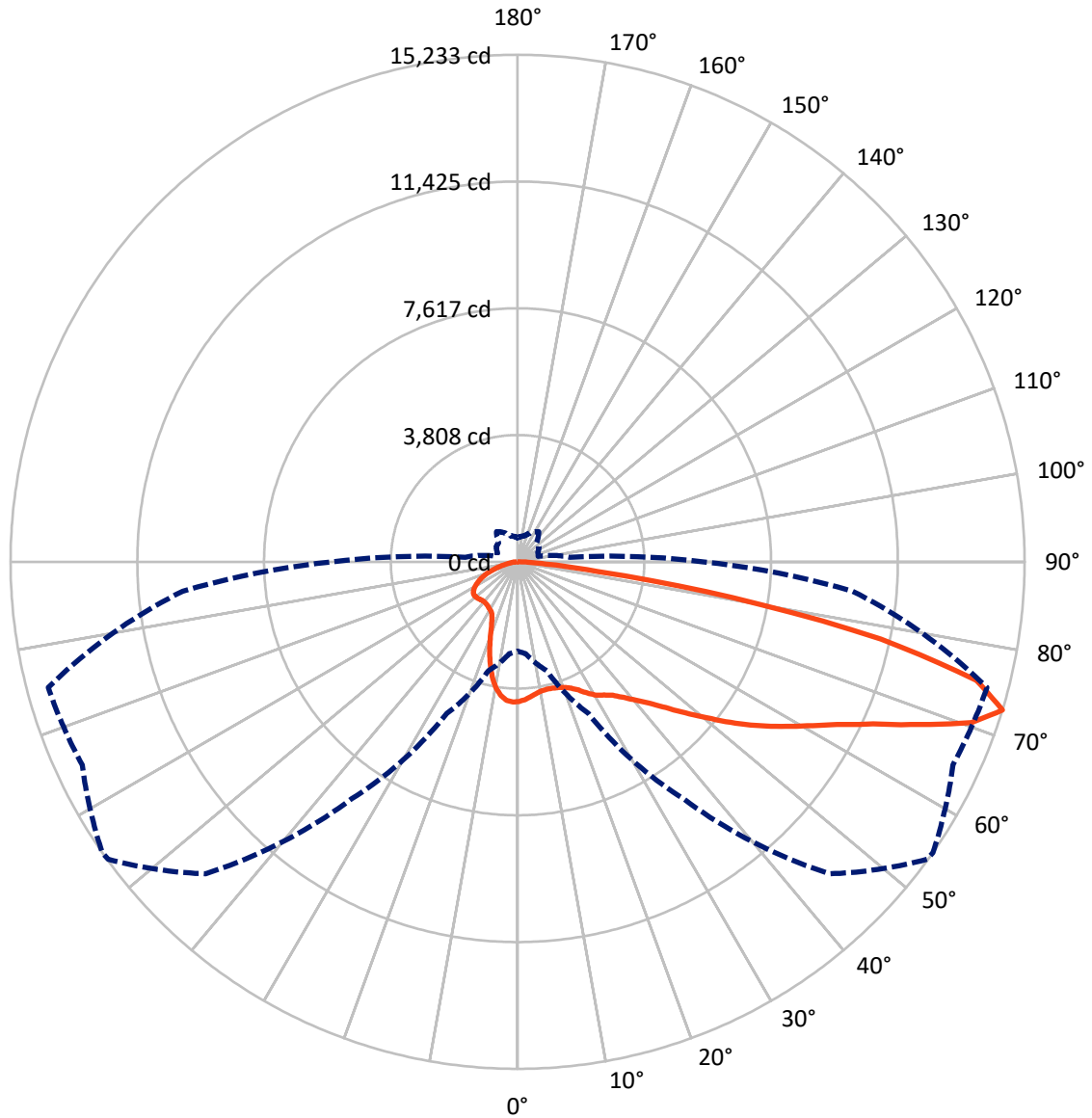
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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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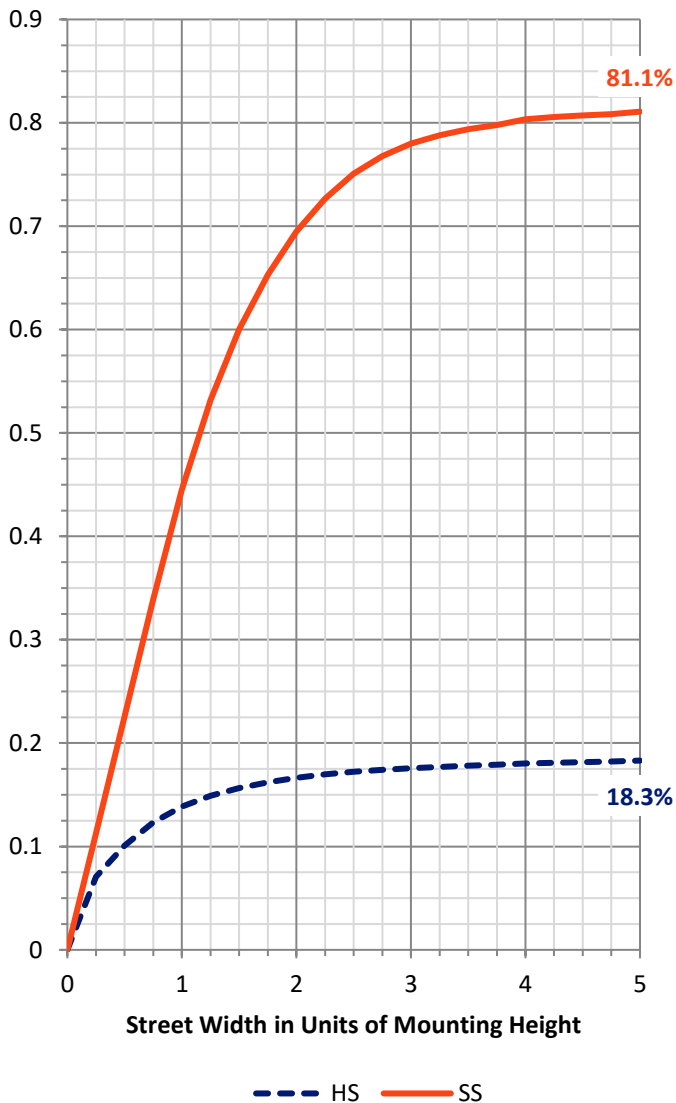
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4426.2	0.0	4426.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	19387.8	0.0	19387.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	23814.0	0.0	23814.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	380.1	1.6
10°-20°	1011.9	4.2
20°-30°	1668.4	7.0
30°-40°	2467.9	10.4
40°-50°	3444.7	14.5
50°-60°	4485.1	18.8
60°-70°	5512.1	23.1
70°-80°	4320.8	18.1
80°-90°	522.9	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°	23814.0	100.0
0°-180°	23814.0	100.0

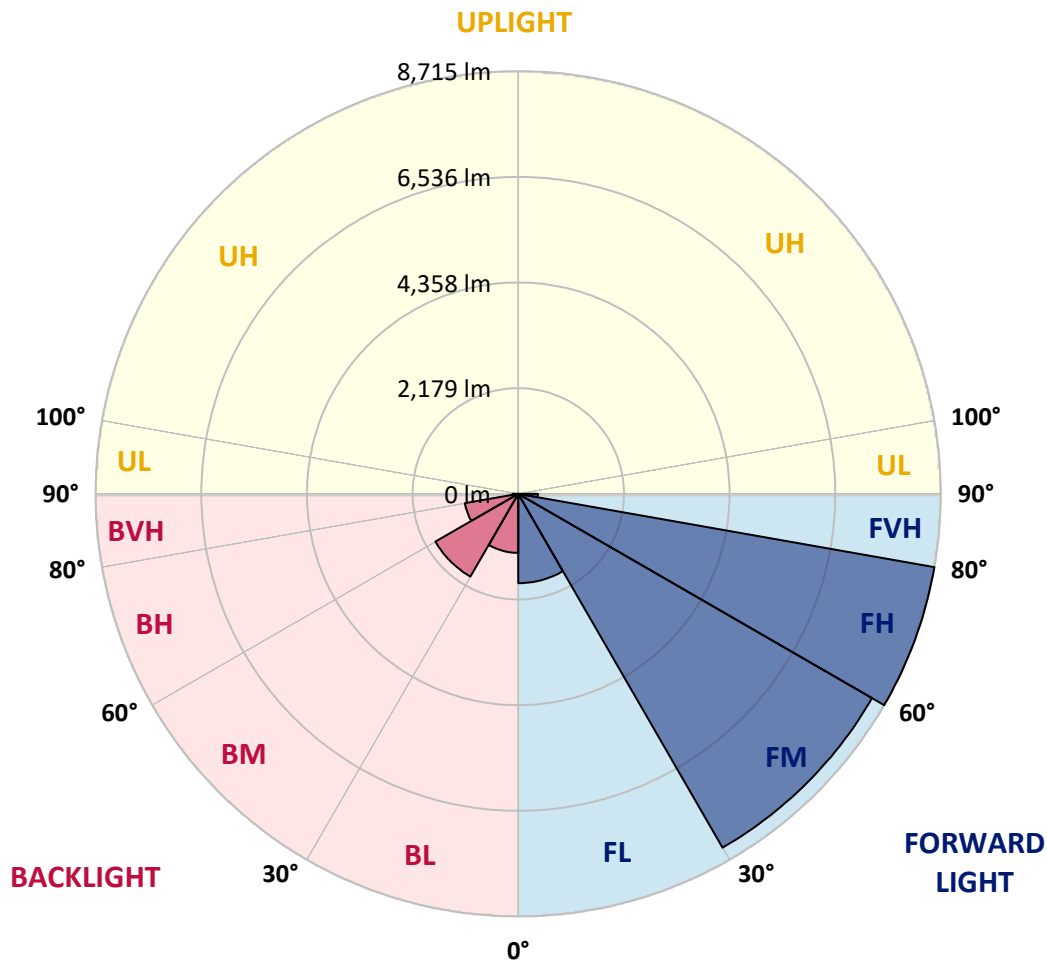


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1842.5	7.7			
FM (30°-60°)	8425.9	35.4			
FH (60°-80°)	8715.1	36.6			G4/12000
FVH (80°-90°)	404.3	1.7			G3/500
BL (0°-30°)	1217.8	5.1	B3/2500		
BM (30°-60°)	1972.0	8.3	B2/2500		
BH (60°-80°)	1117.8	4.7	B3/2500		G3/2500
BVH (80°-90°)	118.6	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°	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3
2.5°	4063.5	4053.9	4066.0	4082.8	4101.3	4126.3	4140.8	4147.2	4172.1	4181.8	4202.7
5°	3875.3	3870.5	3890.6	3919.6	3960.6	4018.5	4065.1	4074.0	4140.0	4186.6	4229.2
7.5°	3738.6	3738.6	3761.9	3796.5	3842.3	3920.4	3986.3	3998.4	4110.2	4210.7	4289.6
10°	3630.0	3634.0	3661.4	3702.4	3756.3	3839.1	3926.8	3940.5	4102.1	4267.0	4392.5
12.5°	3557.6	3567.3	3592.2	3629.2	3696.0	3796.5	3907.5	3926.0	4119.0	4347.5	4516.4
15°	3603.5	3619.5	3622.0	3637.2	3674.2	3783.6	3918.8	3938.1	4155.2	4429.5	4657.1
17.5°	3804.5	3810.2	3785.2	3753.1	3735.4	3805.3	3952.5	3972.6	4198.7	4510.8	4792.3
20°	4110.2	4107.0	4053.1	3966.2	3876.1	3887.4	4008.0	4029.0	4257.4	4582.3	4927.4
22.5°	4496.3	4485.0	4402.2	4242.1	4088.5	4024.1	4105.4	4123.1	4345.9	4684.5	5072.2
25°	4964.4	4939.5	4830.1	4615.3	4389.3	4223.6	4251.8	4268.6	4474.6	4798.7	5204.9
27.5°	5458.3	5433.3	5294.2	5034.4	4733.6	4475.4	4453.6	4468.1	4620.9	4883.2	5303.0
30°	5974.7	5948.1	5821.0	5529.9	5098.7	4736.0	4641.9	4647.5	4723.9	4929.0	5383.5
32.5°	6493.5	6468.5	6326.2	5988.3	5495.3	5015.9	4777.8	4770.6	4785.8	4976.5	5474.4
35°	7019.5	7029.2	6862.7	6488.6	5934.4	5327.2	4938.7	4923.4	4889.6	5073.8	5603.1
37.5°	7582.5	7576.1	7360.5	6969.6	6393.7	5665.0	5169.5	5167.1	5050.5	5258.0	5804.9
40°	7959.0	7963.0	7831.9	7461.9	6857.8	6039.0	5465.5	5459.9	5307.1	5533.9	6069.6
42.5°	8106.2	8132.7	8166.5	7931.6	7343.6	6472.5	5818.6	5810.6	5665.0	5929.6	6380.9
45°	8116.6	8169.7	8378.8	8349.1	7835.9	6968.8	6269.9	6247.3	6142.8	6455.7	6752.5
47.5°	8026.5	8081.2	8428.7	8597.6	8275.9	7492.5	6797.5	6779.8	6689.7	7113.6	7154.6
50°	7829.5	7881.8	8325.8	8719.1	8637.8	7996.0	7405.6	7358.9	7310.7	7873.7	7614.7
52.5°	7460.3	7560.8	8188.2	8748.0	8854.2	8443.2	8045.0	8014.5	8041.0	8675.6	8075.6
55°	6586.0	6698.6	7833.5	8723.9	9014.3	8818.8	8684.5	8682.9	8820.4	9517.0	8570.3
57.5°	6096.1	6175.7	7111.2	8682.9	9204.1	9192.0	9317.5	9332.8	9600.6	10433.1	9088.3
60°	5819.4	5903.1	6745.2	8530.9	9498.5	9674.6	9963.4	9994.0	10393.7	11447.4	9711.6
62.5°	5567.7	5659.4	6518.4	8221.2	9845.2	10364.8	10737.2	10764.5	11233.4	12489.8	10314.1
65°	5137.3	5241.1	6186.2	8017.7	10160.5	11264.8	11720.9	11739.4	12197.9	13582.1	10775.0
67.5°	4529.3	4624.2	5559.6	7568.1	10393.7	12357.9	13028.7	13039.2	13154.2	14353.5	11010.6
70°	3819.0	3855.2	4666.8	6639.8	10117.8	13380.2	14462.1	14464.5	14026.1	14847.4	10972.0
72.5°	2683.3	2768.5	3387.9	5026.3	8694.9	13255.6	15206.1	15233.4	14431.5	14598.0	10095.3
75°	1645.7	1735.8	2125.1	3046.0	5516.2	10425.1	14049.5	14239.3	13671.4	13015.9	8246.9
77.5°	1100.3	1134.1	1386.7	1776.0	2499.1	5998.0	10801.5	11158.6	11357.3	9492.0	5274.1
80°	613.7	678.1	919.4	1103.6	1111.6	2383.3	6476.6	6560.2	6318.9	3779.6	1627.2
82.5°	325.0	360.3	613.7	648.3	606.5	797.9	2413.8	2416.2	2018.9	1013.5	483.4
85°	251.8	281.5	420.7	395.7	309.7	353.9	796.3	839.7	686.9	415.0	157.7
87.5°	125.5	156.0	285.5	251.0	121.5	101.3	284.7	304.0	271.1	162.5	57.1
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°	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3	4200.3
2.5°	4210.7	4218.0	4226.8	4217.2	4214.0	4201.1	4179.4	4174.5	4163.3	4164.1	4170.5
5°	4247.7	4259.8	4255.0	4218.0	4173.7	4111.8	4047.5	3992.8	3956.6	3954.1	3951.7
7.5°	4318.5	4326.6	4288.8	4183.4	4059.5	3916.3	3781.2	3663.0	3591.4	3573.7	3569.7
10°	4429.5	4427.9	4324.1	4111.8	3864.9	3609.1	3391.9	3227.8	3132.1	3104.0	3096.7
12.5°	4553.4	4534.9	4336.2	3981.5	3589.8	3235.1	2960.0	2777.4	2677.7	2645.5	2637.4
15°	4681.3	4635.4	4306.5	3786.8	3252.0	2832.1	2543.3	2374.4	2320.5	2302.8	2299.6
17.5°	4800.3	4711.8	4221.2	3523.0	2866.7	2430.7	2205.5	2137.9	2150.8	2174.1	2174.9
20°	4916.9	4763.3	4084.5	3190.0	2460.5	2100.1	2023.7	2073.6	2134.7	2182.2	2188.6
22.5°	5032.0	4799.5	3908.3	2805.5	2096.9	1914.3	1968.2	2059.1	2129.1	2180.6	2189.4
25°	5128.5	4808.4	3665.4	2395.3	1844.4	1844.4	1941.7	2027.7	2096.9	2147.6	2156.4
27.5°	5163.9	4748.8	3322.7	2015.7	1717.3	1812.2	1904.7	1976.3	2035.0	2088.9	2098.5
30°	5177.6	4638.6	2927.0	1710.8	1665.0	1777.6	1854.8	1915.9	1971.4	2022.1	2031.0
32.5°	5180.0	4505.9	2507.1	1537.9	1628.8	1741.4	1792.9	1846.8	1906.3	1926.4	1929.6
35°	5195.2	4349.1	2064.7	1449.4	1595.0	1707.6	1748.6	1787.2	1690.7	1698.0	1704.4
37.5°	5239.5	4193.8	1694.7	1399.6	1573.3	1689.9	1739.0	1599.0	1523.4	1505.7	1503.3
40°	5322.3	4028.1	1420.5	1359.3	1565.3	1698.8	1677.1	1492.9	1362.6	1265.2	1250.8
42.5°	5437.4	3849.6	1245.1	1332.8	1570.9	1741.4	1591.0	1390.7	1174.3	1111.6	1103.6
45°	5566.9	3662.2	1150.2	1314.3	1590.2	1774.4	1573.3	1254.8	1086.7	1039.2	1035.2
47.5°	5692.3	3432.9	1101.1	1306.3	1616.7	1747.8	1498.5	1212.9	1044.8	1019.9	1022.3
50°	5836.3	3226.2	1071.4	1297.4	1640.1	1730.9	1414.0	1191.2	1028.8	1059.3	1091.5
52.5°	5957.8	3012.3	1044.8	1279.7	1648.9	1701.2	1392.3	1195.3	1028.8	1087.5	1118.0
55°	6101.7	2850.6	1014.3	1242.7	1632.0	1616.7	1377.0	1219.4	1040.8	1003.8	1007.0
57.5°	6287.5	2797.5	980.5	1184.8	1575.7	1493.7	1369.8	1242.7	1033.6	1010.3	1018.3
60°	6544.9	2853.8	966.8	1109.2	1488.0	1397.1	1370.6	1230.6	982.9	942.7	943.5
62.5°	6790.3	2916.5	966.0	1061.7	1380.3	1311.1	1352.1	1191.2	957.2	933.8	942.7
65°	6870.7	2853.0	927.4	1008.6	1258.8	1208.1	1318.3	1149.4	937.9	902.5	900.9
67.5°	6762.9	2655.9	849.4	922.6	1119.6	1088.3	1274.1	1099.5	907.3	878.3	873.5
70°	6442.8	2216.0	752.9	809.2	961.2	953.1	1204.1	1041.6	866.3	841.3	820.4
72.5°	5581.3	1578.9	634.6	673.2	782.6	808.4	1107.6	966.0	808.4	754.5	722.3
75°	4583.9	1168.7	521.2	529.3	594.4	664.4	974.9	877.5	740.0	648.3	623.4
77.5°	2807.2	715.1	415.0	418.3	426.3	530.1	802.7	778.6	653.1	540.5	522.8
80°	908.9	390.1	300.0	315.3	291.2	388.5	621.0	662.8	560.6	452.0	432.7
82.5°	345.9	227.6	202.7	213.2	201.9	260.6	452.8	530.9	459.3	371.6	302.4
85°	167.3	128.7	119.8	134.3	124.7	133.5	289.6	390.9	348.3	242.1	225.2
87.5°	59.5	57.1	45.8	61.9	53.1	47.5	88.5	197.1	230.0	166.5	148.8
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)