

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: P318432

Luminaire Tested: **GAN-SA8A-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37356 lumens
Efficiency: N/A
Efficacy: 145.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

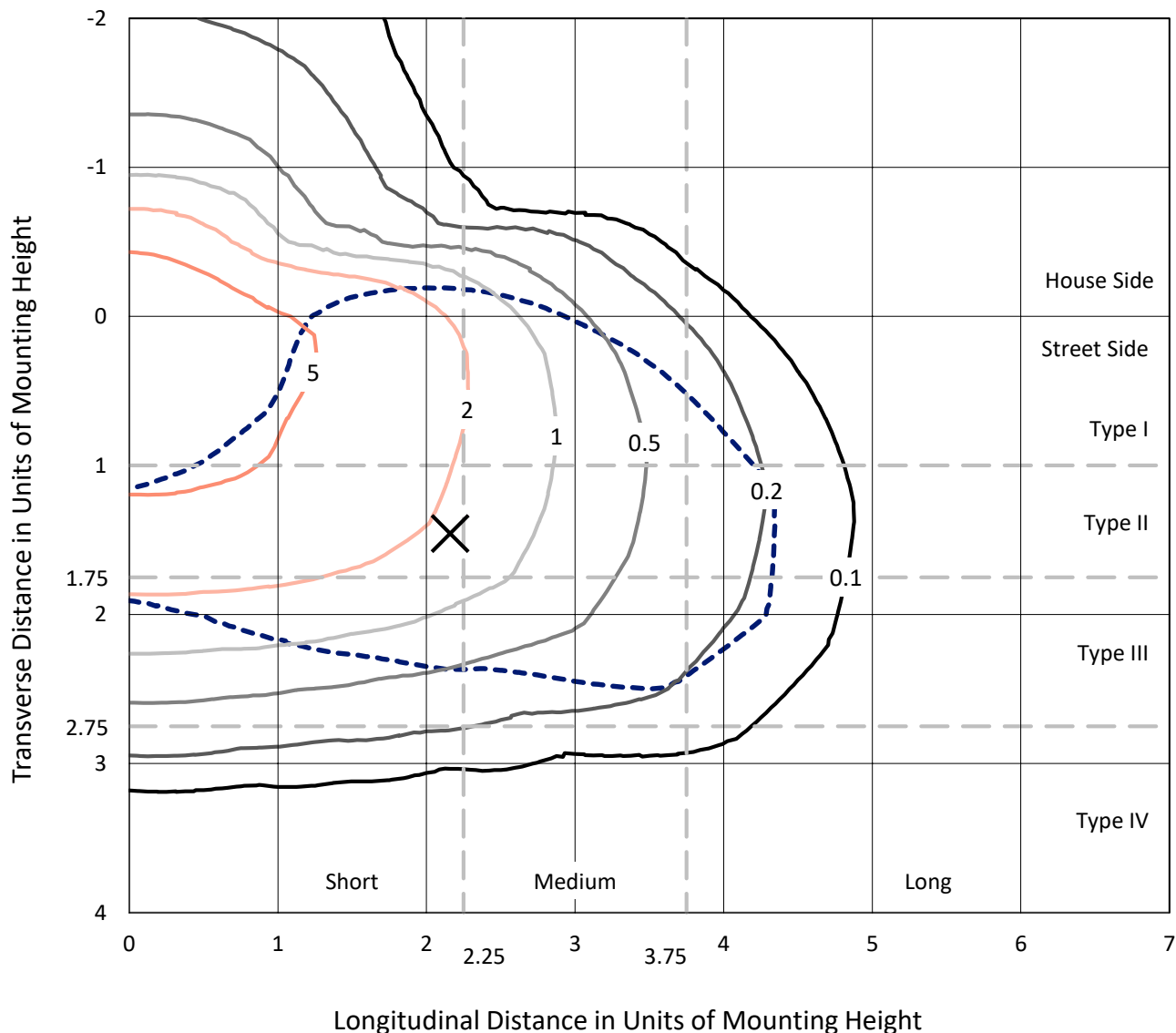
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

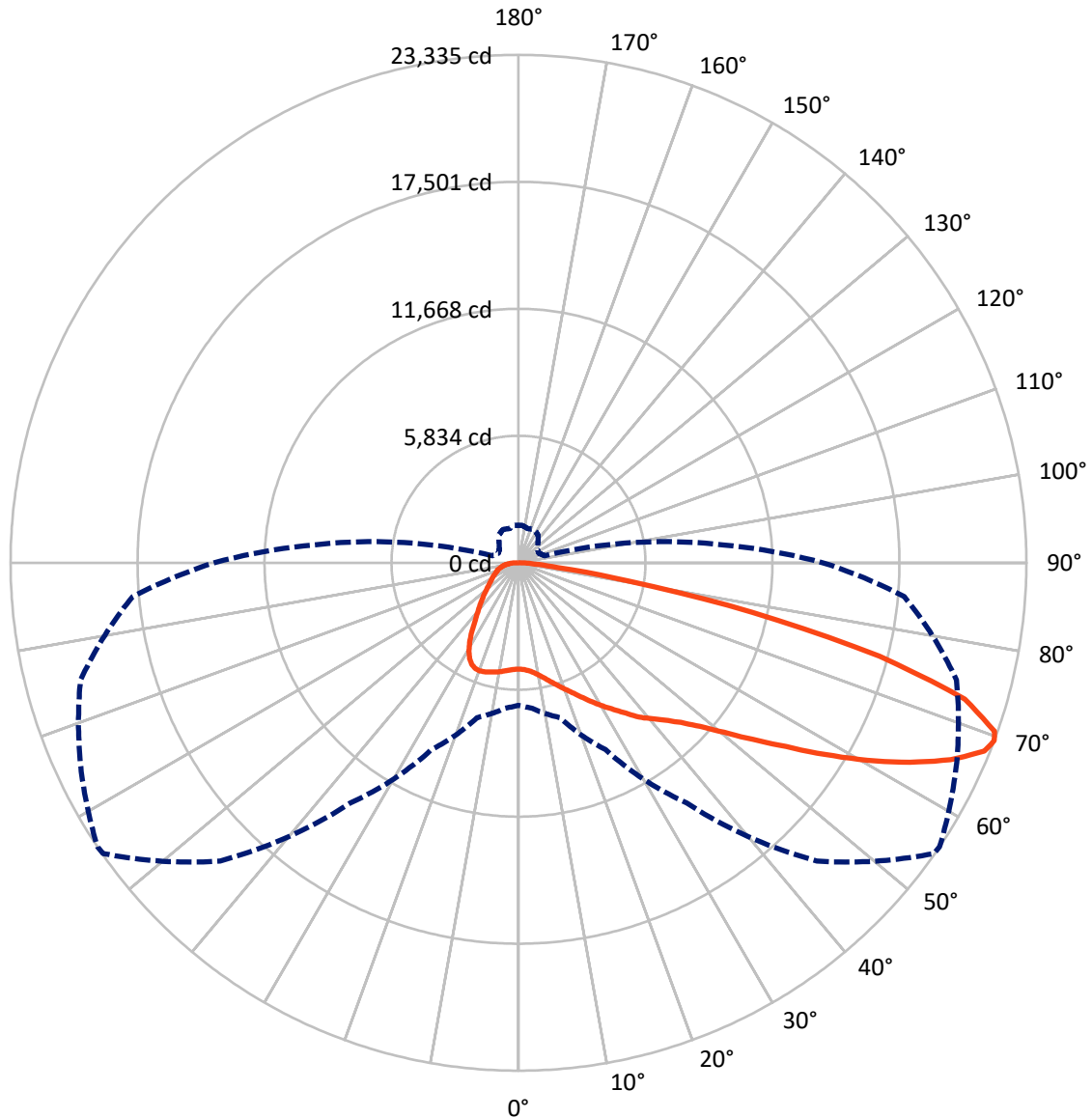
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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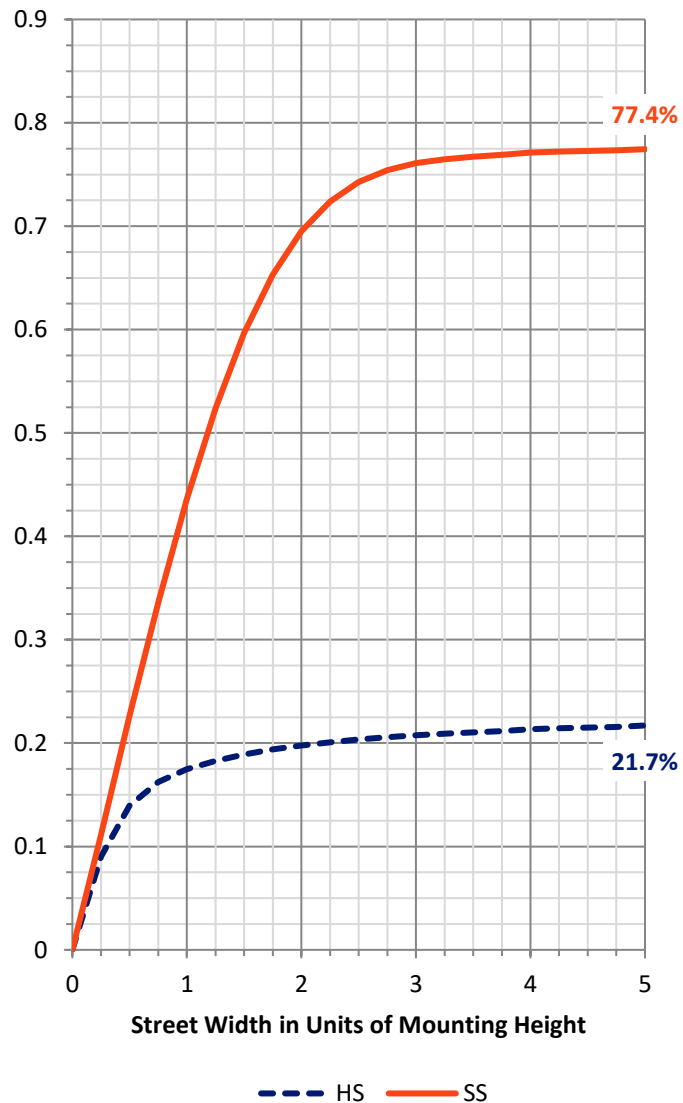
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8319.1	0.0	8319.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	29036.9	0.0	29036.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	37356.0	0.0	37356.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	479.7	1.3
10°-20°	1542.4	4.1
20°-30°	2692.4	7.2
30°-40°	3867.6	10.4
40°-50°	5352.5	14.3
50°-60°	7842.2	21.0
60°-70°	9561.1	25.6
70°-80°	5286.0	14.2
80°-90°	732.1	2.0
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°	37356.0	100.0
0°-180°	37356.0	100.0

Coefficient of Utilization



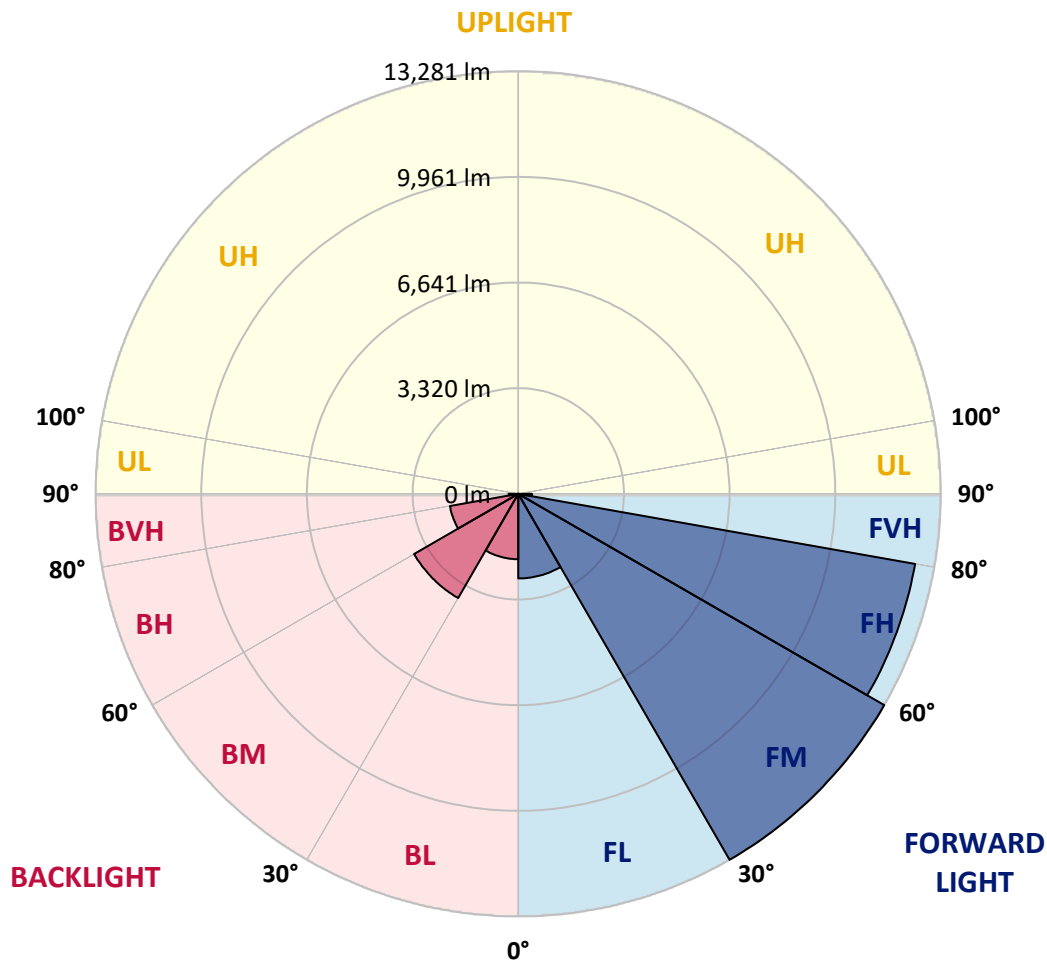
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2658.6	7.1			
FM (30°-60°)	13281.5	35.6			
FH (60°-80°)	12665.6	33.9			G5
FVH (80°-90°)	431.2	1.2			G3/500
BL (0°-30°)	2055.8	5.5	B3/2500		
BM (30°-60°)	3780.9	10.1	B3/5000		
BH (60°-80°)	2181.5	5.8	B3/2500		G3/2500
BVH (80°-90°)	300.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7
2.5°	4914.6	4919.8	4915.9	4926.2	4914.6	4922.3	4915.9	4915.9	4912.0	4900.5	4887.6
5°	4991.8	5002.1	4995.7	5006.0	4991.8	4994.4	4982.8	4982.8	4971.2	4946.8	4921.1
7.5°	5112.8	5124.4	5119.2	5129.5	5110.2	5110.2	5094.8	5093.5	5070.3	5030.4	5000.8
10°	5256.9	5272.4	5267.2	5282.7	5267.2	5272.4	5256.9	5256.9	5226.0	5169.4	5132.1
12.5°	5466.7	5486.0	5471.8	5470.6	5464.1	5474.4	5461.5	5459.0	5430.7	5353.4	5302.0
15°	5747.2	5767.8	5738.2	5735.7	5699.6	5695.8	5695.8	5691.9	5673.9	5581.2	5496.3
17.5°	6070.2	6076.7	6050.9	6009.8	5963.4	5933.8	5930.0	5940.3	5940.3	5832.2	5697.0
20°	6386.8	6398.4	6377.8	6331.5	6272.3	6228.5	6197.6	6218.2	6216.9	6088.3	5896.5
22.5°	6731.7	6758.7	6727.8	6668.6	6599.2	6550.3	6496.2	6514.2	6515.5	6357.2	6092.1
25°	7178.3	7153.8	7134.5	7050.9	6951.8	6901.6	6851.4	6869.4	6864.3	6646.8	6294.2
27.5°	7573.3	7578.5	7552.7	7463.9	7349.4	7238.7	7236.2	7247.7	7228.4	6947.9	6484.6
30°	8032.7	8035.3	7999.3	7919.5	7794.7	7651.8	7618.4	7637.7	7596.5	7233.6	6685.4
32.5°	8489.6	8502.5	8462.6	8366.0	8265.7	8091.9	8025.0	8037.9	7934.9	7525.7	6892.6
35°	8889.8	8907.8	8895.0	8830.6	8721.2	8572.0	8492.2	8484.4	8357.0	7883.5	7166.7
37.5°	9297.8	9314.5	9300.3	9246.3	9202.5	9044.2	9001.8	9001.8	8780.4	8248.9	7515.4
40°	9717.3	9743.0	9726.3	9651.6	9614.3	9542.3	9440.6	9416.1	9176.8	8687.8	8084.2
42.5°	10107.2	10140.7	10207.6	10163.8	10087.9	10098.2	9893.6	9880.7	9705.7	9336.4	8798.4
45°	10660.6	10709.5	10822.7	10789.3	10773.8	10717.2	10474.0	10462.4	10395.5	10208.9	9685.1
47.5°	11264.1	11331.0	11535.7	11542.1	11708.1	11601.3	11270.6	11230.7	11246.1	11253.8	10767.4
50°	11820.1	11893.4	12229.3	12387.6	12778.8	12801.9	12273.0	12237.0	12297.5	12475.1	12028.5
52.5°	12264.0	12356.7	12776.2	13265.2	13935.7	14126.2	13507.2	13480.1	13525.2	13831.5	13454.4
55°	12589.6	12690.0	13146.8	14037.4	15108.0	15443.9	14927.9	14902.1	14930.5	15320.4	15005.1
57.5°	12665.5	12690.0	13352.7	14557.3	16097.7	16904.5	16666.5	16615.0	16476.0	16815.7	16716.7
60°	12309.1	12406.9	13182.9	14740.0	16863.4	18344.6	18483.6	18419.2	18029.3	18307.2	18227.5
62.5°	11585.8	11760.9	12548.4	14462.0	17163.2	19520.8	20265.9	20188.7	19516.9	19697.1	19313.6
65°	10404.5	10479.1	11306.6	13503.3	16782.3	20273.6	21855.2	21816.6	20971.1	20689.3	19514.3
67.5°	8291.4	8431.7	9134.3	11499.6	15223.9	20184.8	23084.2	23080.3	21920.8	21057.3	18802.7
69°	6550.3	6695.7	7364.9	9472.8	13471.1	19372.8	23290.1	23335.1	22188.5	20833.4	17786.1
70°	5222.2	5390.8	5850.2	7978.7	11915.3	18302.1	23118.9	23200.0	22137.0	20464.1	16847.9
72.5°	2222.5	2358.9	2685.7	4112.9	7261.9	13666.7	21138.4	21444.7	20944.1	18729.3	13924.1
75°	970.3	1012.8	1160.8	1676.8	3223.7	7438.2	16559.7	17125.9	17908.3	15831.3	10372.3
77.5°	710.4	728.4	809.5	984.5	1446.5	2809.3	10649.0	10978.4	12915.2	11520.2	6362.4
80°	549.5	562.4	625.4	723.2	944.6	1136.3	4856.7	5139.8	7261.9	5917.1	2649.7
82.5°	437.5	446.5	490.3	532.8	652.5	688.5	1612.5	1788.8	2680.6	1634.3	701.4
85°	406.7	417.0	432.4	388.6	418.2	404.1	697.5	729.7	809.5	642.2	293.4
87.5°	184.0	217.5	428.5	302.4	222.6	177.6	285.7	298.6	335.9	337.2	130.0
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°	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7	4883.7
2.5°	4895.3	4891.5	4897.9	4882.4	4901.8	4900.5	4894.0	4896.6	4909.5	4908.2	4909.5
5°	4924.9	4922.3	4930.1	4918.5	4941.6	4949.4	4950.7	4962.2	4976.4	4980.3	4980.3
7.5°	4999.6	4999.6	5003.4	4988.0	5003.4	5002.1	4995.7	5007.3	5021.4	5022.7	5021.4
10°	5128.2	5129.5	5123.1	5083.2	5070.3	5035.6	5003.4	5004.7	5022.7	5036.9	5040.7
12.5°	5290.4	5285.2	5256.9	5183.6	5129.5	5058.8	5025.3	5024.0	5042.0	5053.6	5057.5
15°	5475.7	5461.5	5388.2	5268.5	5173.3	5103.8	5049.7	5036.9	5026.6	5013.7	5015.0
17.5°	5650.7	5618.5	5496.3	5330.3	5229.9	5137.3	5033.0	4949.4	4891.5	4858.0	4847.7
20°	5828.3	5765.3	5588.9	5388.2	5260.8	5092.2	4891.5	4721.6	4616.1	4567.2	4558.2
22.5°	5990.5	5888.8	5675.2	5448.7	5236.3	4940.4	4625.1	4378.0	4231.3	4165.7	4170.8
25°	6148.7	6007.2	5765.3	5491.1	5112.8	4672.7	4254.4	3950.7	3780.9	3707.5	3704.9
27.5°	6287.7	6126.9	5863.1	5456.4	4882.4	4291.8	3815.6	3519.6	3378.1	3315.0	3304.7
30°	6447.3	6277.4	5993.0	5323.8	4545.3	3851.7	3387.1	3178.6	3078.2	3015.2	3003.6
32.5°	6641.6	6482.0	6099.8	5083.2	4114.2	3392.2	3052.5	2907.1	2815.7	2744.9	2732.1
35°	6924.7	6752.3	6126.9	4738.3	3640.6	3029.3	2806.7	2657.4	2533.9	2442.5	2433.5
37.5°	7279.9	7090.7	6065.1	4291.8	3181.2	2793.8	2602.1	2418.1	2257.2	2128.5	2107.9
40°	7792.1	7506.4	5893.9	3777.0	2842.7	2612.4	2402.6	2192.9	1993.4	1842.8	1813.2
42.5°	8407.2	7994.1	5631.4	3264.8	2594.4	2428.4	2204.4	1944.5	1754.0	1647.2	1631.8
45°	9189.7	8501.2	5267.2	2817.0	2349.9	2244.3	1990.8	1751.5	1633.1	1554.6	1541.7
47.5°	10082.8	9070.0	4885.0	2452.8	2142.7	2071.9	1819.7	1665.2	1571.3	1509.5	1497.9
50°	11180.5	9712.1	4479.7	2154.2	1934.2	1864.7	1738.6	1617.6	1543.0	1495.4	1483.8
52.5°	12418.5	10436.7	4187.5	1918.7	1761.7	1711.6	1696.1	1591.9	1531.4	1495.4	1483.8
55°	13751.7	11174.0	3872.2	1720.6	1612.5	1626.6	1667.8	1594.5	1553.3	1509.5	1492.8
57.5°	15086.2	11935.9	3520.9	1553.3	1494.1	1563.6	1648.5	1599.6	1564.9	1522.4	1506.9
60°	16141.4	12418.5	2976.6	1413.0	1400.1	1494.1	1602.2	1561.0	1516.0	1517.2	1514.7
62.5°	16634.3	12392.7	2375.6	1288.2	1306.2	1400.1	1527.5	1500.5	1463.2	1513.4	1517.2
65°	16357.6	11775.0	1849.3	1174.9	1205.8	1302.3	1450.3	1470.9	1483.8	1580.3	1593.2
67.5°	15196.8	10573.1	1432.3	1075.8	1114.4	1235.4	1458.0	1602.2	1618.9	1720.6	1719.3
69°	13996.2	9445.7	1244.4	1024.4	1069.4	1252.1	1558.4	1685.8	1622.8	1730.9	1715.4
70°	12989.8	8553.9	1144.0	989.6	1048.8	1281.7	1625.3	1684.5	1603.5	1696.1	1670.4
72.5°	10004.3	6153.9	970.3	925.3	979.3	1226.4	1644.6	1647.2	1558.4	1576.4	1532.7
75°	6861.7	3889.0	846.8	837.8	873.8	1105.4	1582.9	1573.9	1441.3	1415.6	1379.5
77.5°	3783.4	1975.4	719.4	754.1	778.6	979.3	1438.7	1425.9	1316.5	1262.4	1249.6
80°	1459.3	864.8	607.4	670.5	685.9	848.1	1261.1	1249.6	1158.2	1088.7	1069.4
82.5°	550.8	453.0	501.9	580.4	575.2	700.1	1068.1	1061.7	972.9	871.2	840.3
85°	254.8	271.5	397.6	478.7	441.4	518.6	854.5	866.1	758.0	637.0	637.0
87.5°	108.1	151.9	281.8	361.6	297.3	350.0	626.7	598.4	549.5	380.9	357.8
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)