

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: P317389

Luminaire Tested: **GAN-SA5A-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317389
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22099 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

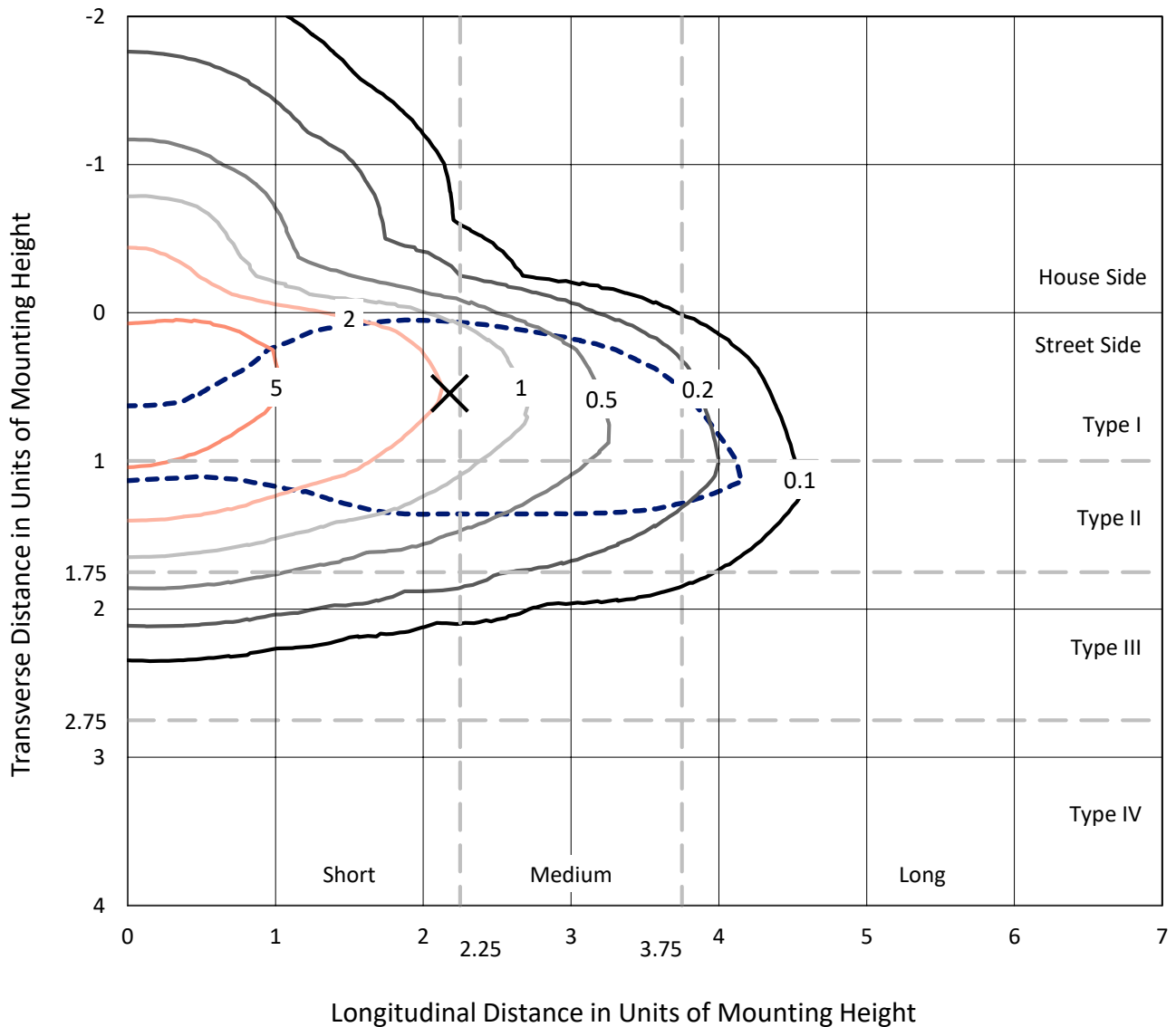
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317389
 CATALOG NUMBER: GAN-SA5A-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

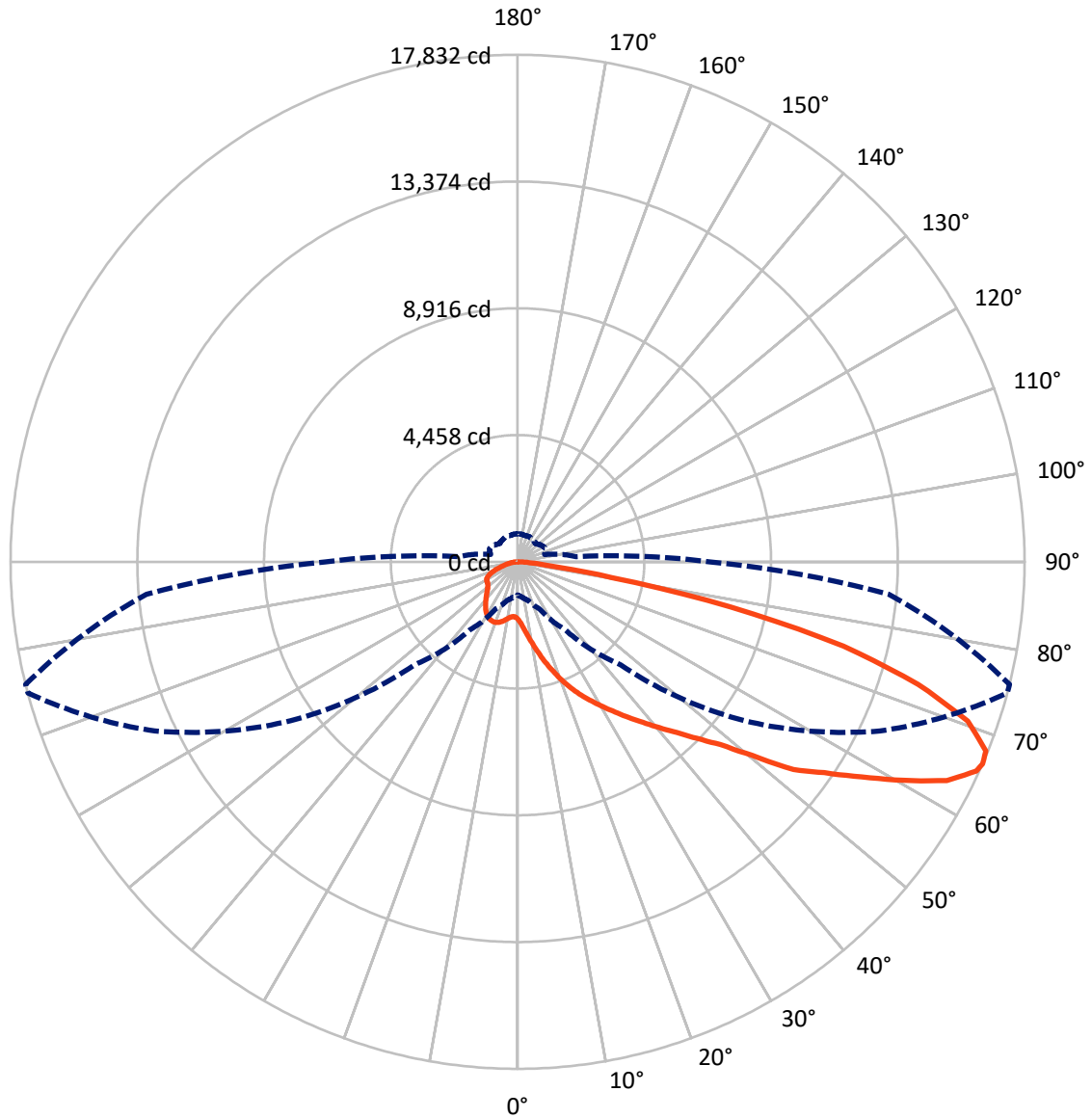
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P317389
CATALOG NUMBER: GAN-SA5A-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P317389
 CATALOG NUMBER: GAN-SA5A-730-U-T2R

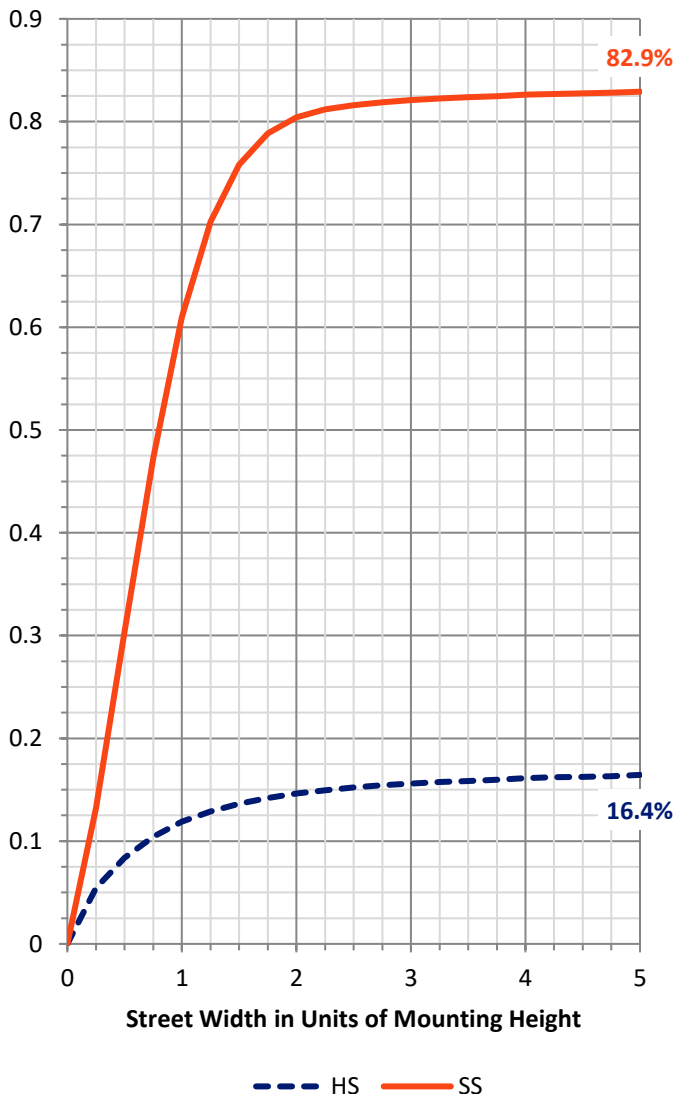
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3718.5	0.0	3718.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18380.5	0.0	18380.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	22099.0	0.0	22099.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.0	1.1
10°-20°	963.7	4.4
20°-30°	1872.8	8.5
30°-40°	3056.8	13.8
40°-50°	4176.3	18.9
50°-60°	4864.5	22.0
60°-70°	4361.1	19.7
70°-80°	2203.9	10.0
80°-90°	355.9	1.6
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°	22099.0	100.0
0°-180°	22099.0	100.0

Coefficient of Utilization

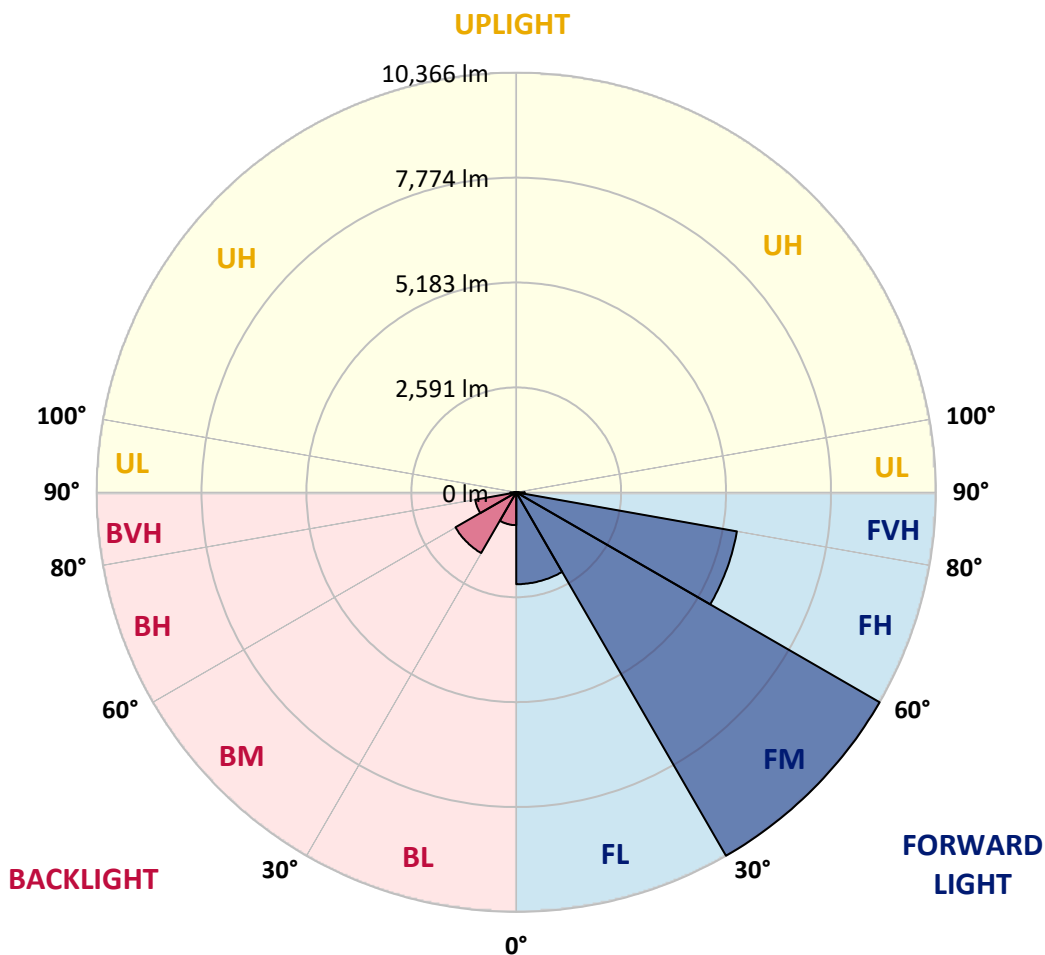


REPORT NUMBER: P317389
 CATALOG NUMBER: GAN-SA5A-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2269.5	10.3			
FM (30°-60°)	10366.0	46.9			
FH (60°-80°)	5534.8	25.0			G3/7500
FVH (80°-90°)	210.2	1.0			G2/225
BL (0°-30°)	811.0	3.7	B2/1000		
BM (30°-60°)	1731.6	7.8	B2/2500		
BH (60°-80°)	1030.2	4.7	B3/2500		G3/2500
BVH (80°-90°)	145.7	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





REPORT NUMBER: P317389
 CATALOG NUMBER: GAN-SA5A-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1
2.5°	2679.1	2638.6	2634.8	2575.6	2562.1	2448.8	2365.5	2278.5	2179.4	2159.9	2081.9
5°	3441.3	3437.6	3385.8	3289.0	3213.3	3019.7	2828.4	2625.8	2403.8	2367.7	2192.2
7.5°	4127.1	4121.1	4081.3	3977.0	3867.5	3629.6	3356.6	3046.0	2685.8	2632.6	2341.5
10°	4647.7	4645.5	4632.0	4555.4	4462.4	4234.3	3932.7	3508.9	3013.7	2940.9	2528.3
12.5°	5049.8	5054.3	5063.3	5036.3	4992.1	4797.8	4488.7	3999.5	3363.3	3291.3	2736.1
15°	5322.2	5335.7	5382.2	5420.5	5443.7	5324.4	5025.1	4501.4	3754.9	3668.7	2966.4
17.5°	5459.5	5474.5	5554.8	5670.3	5776.8	5764.8	5527.0	4980.1	4130.8	4047.5	3214.0
20°	5578.0	5589.3	5679.3	5818.1	6006.4	6089.7	5956.1	5440.7	4542.7	4443.7	3476.6
22.5°	5921.6	5935.9	5962.9	6041.7	6208.2	6361.3	6296.7	5876.6	4920.1	4827.8	3725.7
25°	6584.8	6602.1	6543.6	6476.8	6508.3	6614.8	6626.8	6274.2	5302.7	5198.4	3993.5
27.5°	7383.8	7408.6	7308.8	7137.0	6987.0	6945.7	6931.4	6599.8	5668.0	5547.3	4258.3
30°	8166.3	8209.1	8079.3	7856.5	7581.1	7387.6	7244.3	6918.7	6028.2	5912.6	4508.2
32.5°	8930.8	8913.6	8725.3	8507.7	8185.1	7942.8	7596.1	7260.8	6433.3	6300.5	4756.5
35°	9454.5	9460.5	9285.7	9027.6	8720.0	8533.9	8067.3	7629.9	6846.7	6724.4	5038.6
37.5°	9900.1	9872.4	9674.3	9433.5	9168.6	9089.1	8618.7	8036.5	7294.6	7161.0	5338.7
40°	10048.7	10016.4	9886.6	9713.3	9501.0	9494.2	9227.2	8497.2	7801.0	7668.9	5677.0
42.5°	9958.6	9917.4	9864.1	9816.8	9751.6	9781.6	9798.8	9037.4	8357.6	8209.8	6068.7
45°	9626.3	9564.0	9601.5	9704.3	9846.1	10015.7	10315.0	9635.3	8981.1	8857.3	6528.6
47.5°	9115.4	9059.1	9176.1	9396.0	9781.6	10210.7	10803.4	10295.5	9725.3	9602.3	7183.5
50°	8396.7	8413.2	8580.5	8980.3	9563.3	10300.8	11405.1	11169.5	10807.2	10692.4	8077.0
52.5°	7217.3	7220.3	7691.4	8347.9	9176.1	10254.2	11739.0	12286.6	12284.4	12145.6	8927.8
55°	6121.9	6188.7	6561.6	7434.1	8548.9	10068.2	11972.3	12829.8	13254.4	13091.6	9720.8
57.5°	5052.1	5091.1	5444.5	6320.7	7653.9	9572.3	12211.6	13481.8	14372.3	14269.5	10706.6
60°	3835.2	3895.2	4260.6	5070.1	6509.1	8692.2	12234.1	14162.2	15708.5	15604.9	11807.2
62.5°	2489.3	2592.8	2934.9	3693.4	5124.1	7426.6	11711.9	14607.1	16974.9	16938.1	12784.0
65°	1430.7	1508.7	1746.6	2331.7	3535.1	5837.6	10470.3	14436.1	17754.4	17733.3	13149.4
66°	1168.9	1217.6	1399.9	1822.3	2916.9	5126.4	9748.6	14075.2	17831.6	17832.4	13107.4
67.5°	934.8	956.6	1038.3	1304.7	2152.4	4063.3	8458.9	13279.2	17735.6	17761.9	12836.6
70°	773.5	784.7	810.3	874.8	1174.9	2450.3	6004.1	11210.8	16771.5	16791.8	11779.5
72.5°	694.0	700.7	710.5	719.5	829.0	1369.2	3667.2	8968.3	14704.6	14730.9	10168.7
75°	628.7	632.4	630.9	631.7	695.5	872.5	1895.1	6695.9	11889.8	11837.2	7789.7
77.5°	552.2	555.9	548.4	549.9	615.2	670.7	943.0	4687.5	8023.8	7653.2	4388.9
80°	466.6	469.6	466.6	471.9	535.7	506.4	548.4	2637.1	3547.9	3355.8	1560.5
82.5°	352.6	365.4	374.4	395.4	441.1	360.1	366.9	1027.1	1080.3	1028.6	478.7
85°	154.5	188.3	282.1	302.3	331.6	216.1	240.8	418.6	439.6	426.1	174.1
87.5°	40.5	44.3	139.5	175.6	183.8	97.5	125.3	190.6	201.1	190.6	57.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P317389
 CATALOG NUMBER: GAN-SA5A-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1	2018.1
2.5°	2040.6	2003.9	1937.9	1879.3	1835.1	1805.1	1775.1	1760.1	1751.1	1742.0	1743.6
5°	2105.9	2031.6	1918.4	1838.1	1793.1	1764.6	1749.6	1743.6	1739.8	1730.8	1730.8
7.5°	2204.2	2099.2	1943.1	1860.6	1825.3	1803.6	1794.6	1791.6	1787.1	1776.6	1778.1
10°	2328.0	2180.9	1994.9	1914.6	1882.3	1858.3	1845.6	1841.1	1832.8	1820.8	1822.3
12.5°	2473.5	2282.2	2063.2	1979.1	1940.1	1907.9	1886.8	1874.1	1859.8	1844.1	1844.8
15°	2632.6	2392.5	2136.7	2036.9	1983.6	1938.6	1904.9	1883.1	1860.6	1841.1	1840.3
17.5°	2793.9	2499.0	2192.9	2068.4	1996.4	1937.1	1891.3	1857.6	1829.8	1805.8	1803.6
20°	2967.9	2595.1	2224.5	2065.4	1972.4	1901.9	1841.1	1799.1	1768.3	1744.3	1740.5
22.5°	3145.0	2685.1	2229.7	2034.6	1919.1	1832.8	1769.1	1722.5	1691.0	1666.3	1657.3
25°	3307.0	2754.9	2207.9	1975.4	1844.8	1751.8	1689.5	1642.3	1616.8	1587.5	1578.5
27.5°	3454.8	2803.6	2164.4	1899.6	1761.6	1670.0	1611.5	1571.0	1543.2	1520.7	1513.2
30°	3587.6	2829.9	2093.2	1809.6	1676.0	1592.8	1543.2	1515.5	1491.5	1463.0	1457.7
32.5°	3713.7	2829.9	2001.6	1711.3	1591.3	1524.5	1495.2	1478.0	1451.0	1423.2	1415.7
35°	3839.7	2812.6	1893.6	1608.5	1513.2	1475.7	1474.2	1454.0	1412.7	1375.2	1365.4
37.5°	3972.5	2777.4	1772.1	1512.5	1449.5	1454.0	1466.7	1421.7	1363.2	1309.9	1295.7
40°	4122.6	2728.6	1646.0	1429.2	1396.2	1444.2	1446.5	1375.2	1261.1	1212.4	1199.6
42.5°	4298.9	2679.8	1529.0	1355.7	1354.2	1414.9	1408.2	1274.7	1206.4	1181.6	1174.9
45°	4530.7	2652.1	1417.9	1285.9	1321.2	1367.7	1342.9	1219.1	1190.6	1176.4	1170.4
47.5°	4896.0	2666.3	1315.9	1230.4	1288.2	1320.4	1221.4	1196.6	1176.4	1159.1	1153.1
50°	5353.7	2658.1	1233.4	1192.1	1250.6	1270.9	1166.6	1167.4	1156.9	1137.4	1128.4
52.5°	5698.0	2593.6	1180.1	1170.4	1217.6	1183.1	1132.1	1138.9	1133.6	1105.1	1095.3
55°	6030.4	2538.1	1153.1	1162.1	1193.6	1073.6	1091.6	1108.1	1102.8	1075.1	1070.6
57.5°	6443.8	2527.5	1136.6	1164.4	1173.4	1018.8	1052.6	1074.3	1070.6	1058.6	1056.3
60°	6950.2	2530.5	1121.6	1168.1	1150.9	978.3	1015.8	1043.6	1045.8	1043.6	1042.1
62.5°	7228.5	2448.8	1084.1	1157.6	1111.1	943.0	977.6	1018.1	1018.8	1023.3	1022.6
65°	6992.2	2204.2	1014.3	1120.9	1044.3	913.8	944.5	988.8	977.6	997.8	997.8
66°	6762.6	2063.2	979.8	1096.8	1015.8	902.5	934.0	973.8	959.6	987.3	987.3
67.5°	6293.7	1825.3	917.5	1045.8	975.3	886.8	922.0	949.0	929.5	970.8	967.8
70°	5437.0	1411.9	792.3	930.3	908.5	863.5	905.5	899.5	871.0	934.0	922.0
72.5°	4583.9	1072.8	636.2	778.7	807.3	834.3	882.3	836.5	800.5	844.8	818.5
75°	3556.9	806.5	502.7	605.4	682.0	788.5	854.5	763.7	712.0	707.5	693.2
77.5°	1922.9	553.7	398.4	462.1	541.7	731.5	835.8	685.7	607.7	589.7	578.4
80°	761.5	360.1	289.6	350.4	378.9	649.0	790.7	594.9	501.2	483.2	465.9
82.5°	314.3	213.1	186.8	234.8	246.8	555.2	709.7	487.7	387.1	535.7	568.7
85°	135.0	117.0	111.0	121.5	139.5	389.4	564.9	372.1	417.9	372.9	296.3
87.5°	40.5	49.5	47.3	46.5	51.0	93.0	300.8	207.1	306.8	116.3	87.0
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)