

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: P318706

Luminaire Tested: **GAN-SA2A-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2A-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9591 lumens
Efficiency: N/A
Efficacy: 145.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

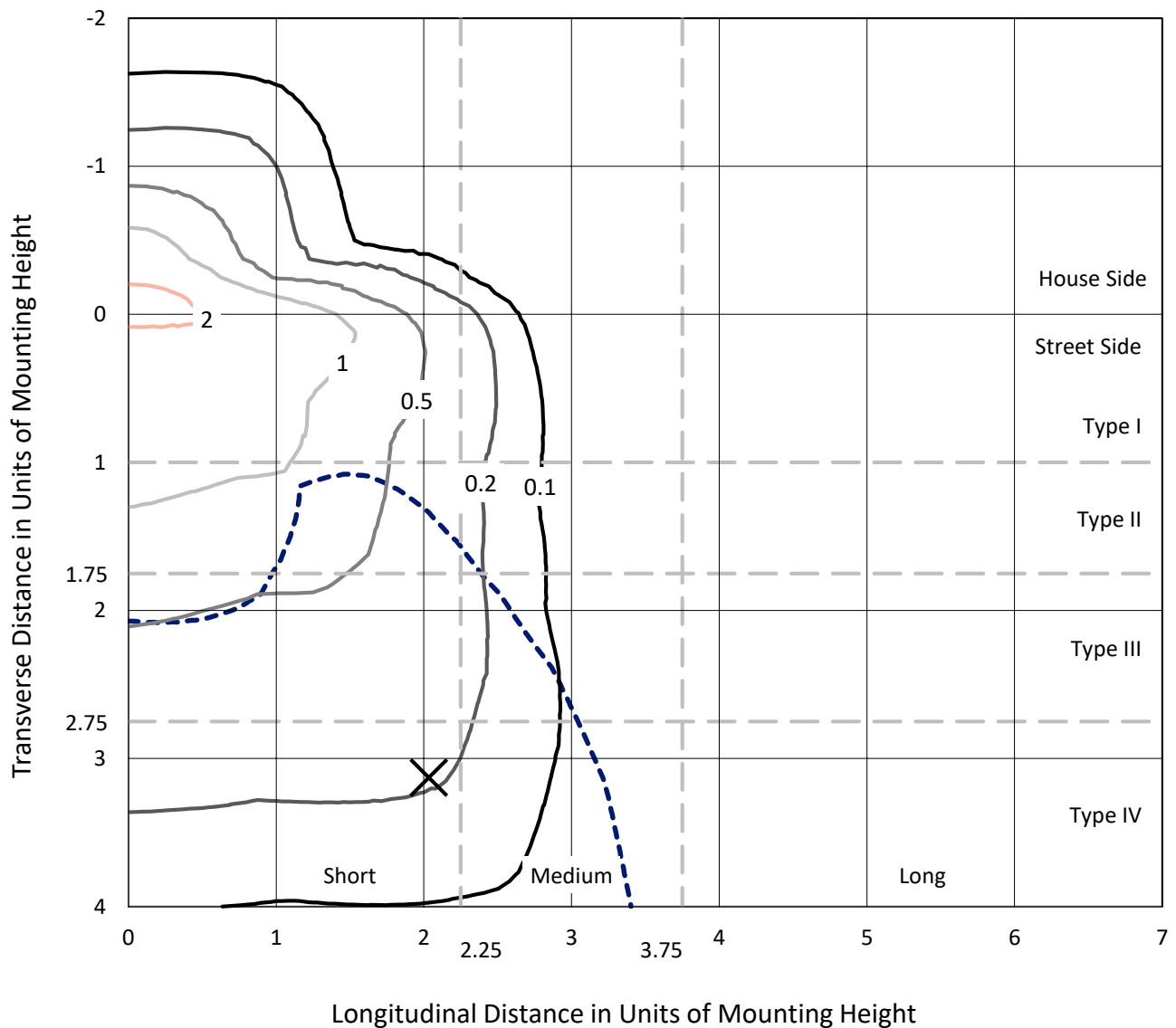
Input Watts (W): 66
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318706
 CATALOG NUMBER: GAN-SA2A-740-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

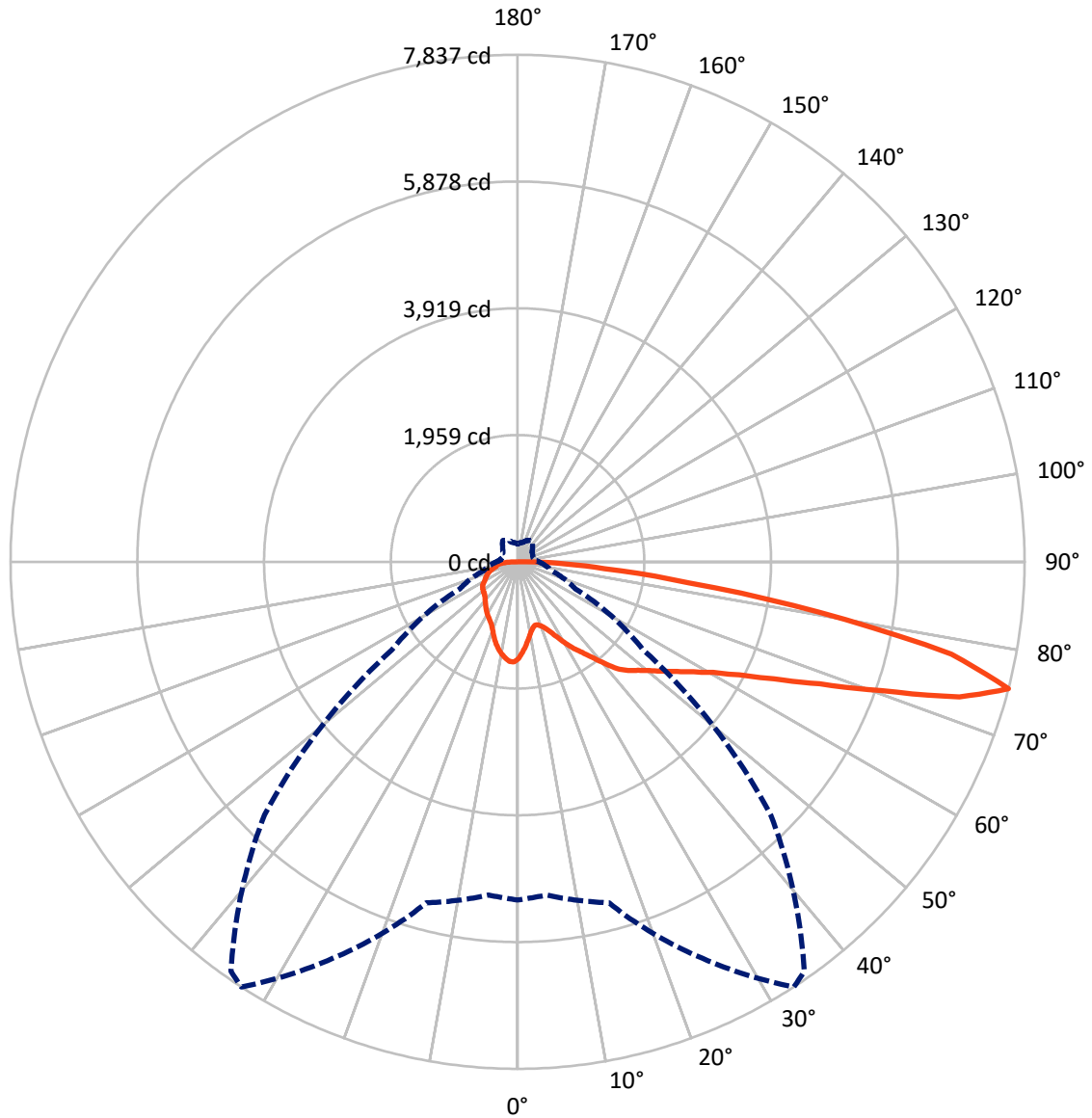
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P318706
CATALOG NUMBER: GAN-SA2A-740-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

REPORT NUMBER: P318706
 CATALOG NUMBER: GAN-SA2A-740-U-T4FT

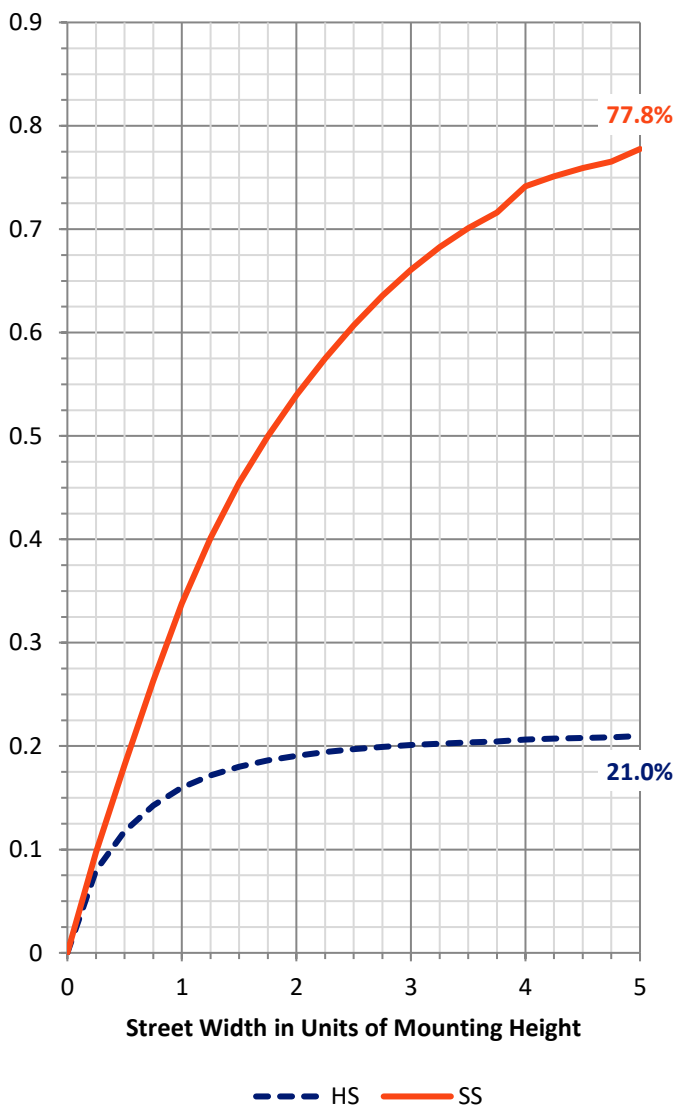
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.4	0.0	2059.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7531.6	0.0	7531.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	9591.0	0.0	9591.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.6	1.4
10°-20°	367.2	3.8
20°-30°	599.7	6.3
30°-40°	893.1	9.3
40°-50°	1280.9	13.4
50°-60°	1758.5	18.3
60°-70°	2201.6	23.0
70°-80°	1991.7	20.8
80°-90°	362.8	3.8
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°	9591.0	100.0
0°-180°	9591.0	100.0

Coefficient of Utilization



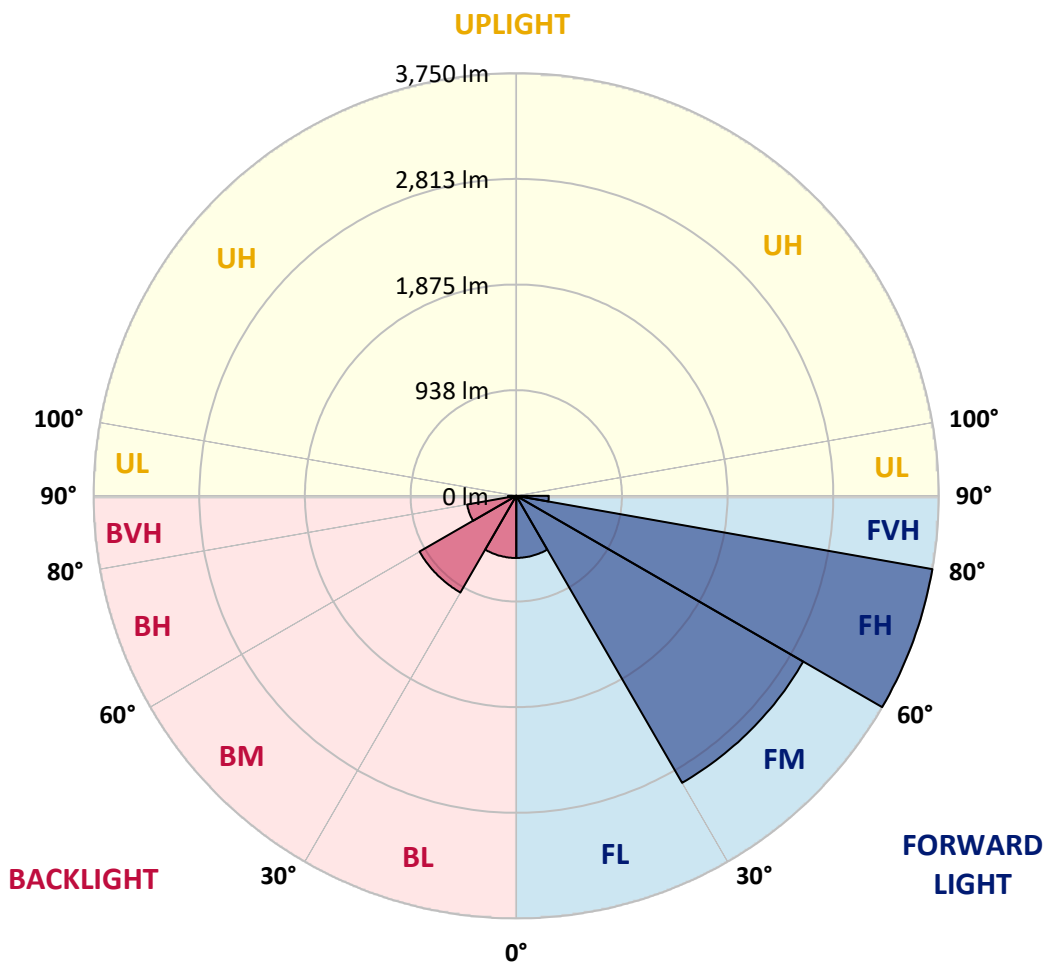
REPORT NUMBER: P318706
 CATALOG NUMBER: GAN-SA2A-740-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.9	5.7			
FM (30°-60°)	2941.4	30.7			
FH (60°-80°)	3750.4	39.1			G2/5000
FVH (80°-90°)	288.9	3.0			G3/500
BL (0°-30°)	551.6	5.8	B2/1000		
BM (30°-60°)	991.1	10.3	B1/1000		
BH (60°-80°)	442.8	4.6	B1/500		G1/500
BVH (80°-90°)	73.9	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P318706
 CATALOG NUMBER: GAN-SA2A-740-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1392.1	1386.8	1396.8	1398.1	1406.7	1410.0	1421.9	1440.5	1455.7	1473.3	1489.2
5°	1265.9	1262.2	1276.2	1286.1	1305.0	1312.9	1341.1	1380.5	1415.6	1455.4	1491.5
7.5°	1146.0	1144.0	1159.5	1182.1	1203.9	1214.9	1263.6	1320.9	1379.5	1443.8	1499.1
10°	1044.9	1044.3	1059.2	1081.4	1113.5	1125.8	1188.7	1264.2	1346.4	1434.9	1512.0
12.5°	988.3	990.6	997.5	1016.1	1045.9	1058.2	1128.1	1216.9	1318.6	1431.9	1530.9
15°	1002.2	1005.8	993.9	993.2	1014.4	1024.0	1089.6	1183.1	1298.7	1436.8	1558.4
17.5°	1061.5	1062.1	1030.7	1010.8	1023.7	1028.7	1077.7	1163.9	1287.1	1448.1	1592.9
20°	1145.0	1143.3	1087.7	1054.5	1061.5	1062.8	1094.6	1164.2	1286.1	1467.7	1637.6
22.5°	1255.6	1243.4	1168.5	1123.4	1121.8	1119.8	1138.0	1188.7	1300.7	1499.5	1690.9
25°	1400.1	1388.5	1285.4	1223.8	1210.6	1205.6	1208.2	1241.0	1329.5	1533.6	1750.6
27.5°	1560.7	1540.5	1441.1	1354.0	1326.5	1319.6	1303.7	1314.9	1361.0	1566.4	1821.5
30°	1695.3	1684.3	1597.5	1494.2	1461.7	1451.8	1410.0	1397.7	1406.4	1611.1	1910.9
32.5°	1770.5	1763.2	1710.5	1627.0	1596.9	1582.9	1524.0	1499.5	1479.2	1681.7	2032.2
35°	1861.6	1856.9	1825.1	1764.5	1719.8	1705.2	1659.5	1634.0	1582.0	1778.7	2188.9
37.5°	1977.5	1972.6	1973.2	1924.2	1870.8	1857.3	1827.1	1800.3	1715.1	1906.3	2359.2
40°	2108.7	2099.1	2095.5	2093.1	2059.4	2051.7	2035.8	1999.4	1882.1	2058.7	2527.1
42.5°	2306.2	2272.0	2199.2	2226.7	2260.1	2256.1	2269.1	2216.7	2067.6	2238.9	2691.1
45°	2496.7	2440.7	2314.8	2320.7	2394.0	2416.2	2512.9	2475.8	2268.7	2436.4	2860.8
47.5°	2583.5	2541.1	2434.1	2434.4	2506.9	2553.0	2765.0	2738.5	2480.1	2660.7	3067.8
50°	2680.5	2638.1	2542.1	2578.2	2641.4	2690.5	3008.5	2994.9	2681.2	2906.2	3316.0
52.5°	2786.6	2714.7	2653.7	2718.3	2807.1	2864.1	3252.4	3215.3	2865.7	3153.3	3601.2
55°	2787.9	2768.3	2814.7	2862.1	2994.9	3064.8	3507.8	3409.7	3016.1	3396.1	3833.5
57.5°	2946.6	2914.8	3013.2	3035.0	3208.6	3287.5	3761.9	3579.0	3169.2	3582.3	3958.7
60°	3156.6	3129.4	3210.0	3267.6	3473.0	3578.4	4033.2	3753.0	3289.5	3722.8	3952.7
62.5°	3519.4	3488.6	3487.6	3568.4	3845.1	3967.6	4337.7	3923.6	3337.2	3750.6	3784.1
65°	4050.5	4001.4	3909.0	3947.4	4358.9	4481.1	4677.9	4047.1	3274.2	3601.5	3349.8
67.5°	4567.3	4565.6	4452.0	4530.8	5037.4	5135.5	5065.6	4059.4	3077.8	3082.4	2579.2
70°	5082.5	5089.1	5069.9	5344.2	5954.1	6056.1	5478.4	3894.7	2636.1	2226.0	1545.2
72.5°	5490.6	5489.0	5585.7	6293.0	7143.8	7120.9	5826.2	3395.8	1892.7	1201.6	738.5
75°	5226.2	5168.6	5456.8	6762.8	7837.2	7725.6	5530.4	2368.8	982.3	547.0	397.6
77.5°	3408.7	3463.4	3886.5	5586.7	6855.2	6719.4	4057.4	1105.2	462.8	358.8	288.2
80°	1234.4	1292.1	1819.8	3164.6	4723.0	4700.8	1998.1	454.2	313.1	271.0	210.0
82.5°	424.7	445.9	717.9	1405.4	2666.6	2766.0	751.7	258.1	227.6	192.2	143.8
85°	166.6	190.8	328.3	676.2	1345.1	1355.0	304.5	154.4	158.4	125.9	78.8
87.5°	63.3	76.9	157.0	314.1	614.2	564.2	109.0	73.5	90.1	74.9	37.4
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: P318706
 CATALOG NUMBER: GAN-SA2A-740-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1	1499.1
2.5°	1501.4	1508.4	1523.0	1532.9	1543.5	1546.5	1547.8	1550.5	1553.1	1552.1	1552.5
5°	1510.7	1524.3	1547.8	1557.8	1562.4	1557.1	1546.8	1538.6	1532.6	1529.3	1528.3
7.5°	1526.0	1545.2	1570.4	1568.7	1558.1	1534.6	1508.1	1488.2	1471.6	1465.7	1462.4
10°	1546.2	1568.7	1586.3	1567.4	1536.6	1495.8	1456.1	1425.2	1400.4	1390.8	1389.1
12.5°	1572.0	1594.9	1598.2	1558.1	1507.1	1451.4	1397.4	1356.7	1319.6	1307.6	1305.0
15°	1605.5	1627.0	1606.5	1541.9	1470.6	1395.8	1325.9	1270.5	1231.4	1216.9	1211.6
17.5°	1640.6	1661.1	1608.1	1515.0	1422.9	1329.8	1242.0	1185.4	1140.7	1123.8	1121.8
20°	1682.7	1691.9	1601.2	1476.6	1357.3	1244.4	1151.9	1098.6	1074.7	1062.8	1061.5
22.5°	1734.7	1724.7	1585.3	1424.6	1274.2	1145.6	1070.4	1045.6	1039.6	1037.0	1038.0
25°	1789.7	1759.2	1561.7	1356.7	1169.2	1046.9	1010.8	1017.7	1025.7	1024.7	1024.7
27.5°	1850.3	1794.3	1525.6	1266.6	1052.9	966.1	970.4	995.9	1007.8	1007.5	1007.1
30°	1928.2	1834.1	1479.6	1158.2	944.2	909.1	935.3	966.4	982.6	982.0	982.3
32.5°	2023.9	1877.8	1417.0	1037.3	865.7	867.0	897.2	928.0	946.9	945.2	945.5
35°	2135.9	1926.8	1332.2	918.0	813.7	833.5	857.4	878.9	896.8	894.5	892.2
37.5°	2257.8	1974.9	1219.5	811.4	771.3	802.4	822.3	825.9	834.2	828.2	823.9
40°	2373.8	2011.6	1074.4	723.9	728.5	775.9	788.8	774.2	759.3	757.3	751.4
42.5°	2474.8	2023.9	927.6	654.0	683.5	748.1	756.0	725.5	698.7	686.1	680.8
45°	2581.5	2028.2	790.8	595.3	640.1	723.2	731.8	691.1	653.3	626.2	617.2
47.5°	2721.0	2059.4	684.5	551.9	606.9	706.7	718.9	663.6	614.6	575.8	567.5
50°	2903.5	2121.0	598.0	518.8	585.4	695.7	709.6	636.8	582.8	536.0	527.8
52.5°	3106.3	2177.6	528.1	492.0	564.5	676.5	697.7	617.5	552.9	499.3	490.3
55°	3248.1	2134.2	471.8	464.1	537.4	649.0	681.2	601.3	510.2	463.5	455.5
57.5°	3275.2	1985.8	429.0	435.3	504.6	614.6	655.6	565.2	487.0	447.9	439.6
60°	3201.0	1779.1	397.2	408.8	469.5	571.2	607.9	539.7	464.8	431.4	424.4
62.5°	3014.5	1567.4	373.7	385.0	436.7	527.1	578.1	512.9	442.3	412.5	405.5
65°	2637.8	1315.9	351.2	363.8	406.2	489.0	551.3	488.0	420.1	397.2	390.6
67.5°	1991.1	985.6	330.0	341.2	379.0	455.9	522.1	463.5	398.6	384.0	376.0
70°	1172.5	617.2	305.8	317.7	350.5	421.4	491.0	436.7	371.7	365.1	354.8
72.5°	545.6	371.4	278.3	289.9	314.7	375.4	450.9	401.5	339.9	325.3	311.4
75°	325.7	271.7	245.8	256.1	273.7	326.3	400.5	365.8	309.8	290.5	276.0
77.5°	243.5	207.7	210.0	221.0	235.2	285.6	354.8	337.6	286.6	271.7	261.7
80°	175.3	157.7	171.3	183.2	198.1	259.7	339.9	312.1	259.1	239.2	229.9
82.5°	116.9	113.3	128.9	141.1	155.7	227.3	319.4	273.3	221.3	196.1	175.6
85°	64.6	68.2	86.8	92.1	104.7	160.0	261.7	219.7	166.6	134.2	128.2
87.5°	26.8	31.5	46.7	45.1	55.7	95.4	172.3	132.5	106.0	79.2	61.6
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)