

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P386403

Luminaire Tested: GAW-SA2A-740-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386403
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
Product Line: STREETWORKS
Catalog Number: GAW-SA2A-740-U-T4FT
Description: GALLEON WALL 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: 9783 lumens
Efficiency: N/A
Efficacy: 148.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

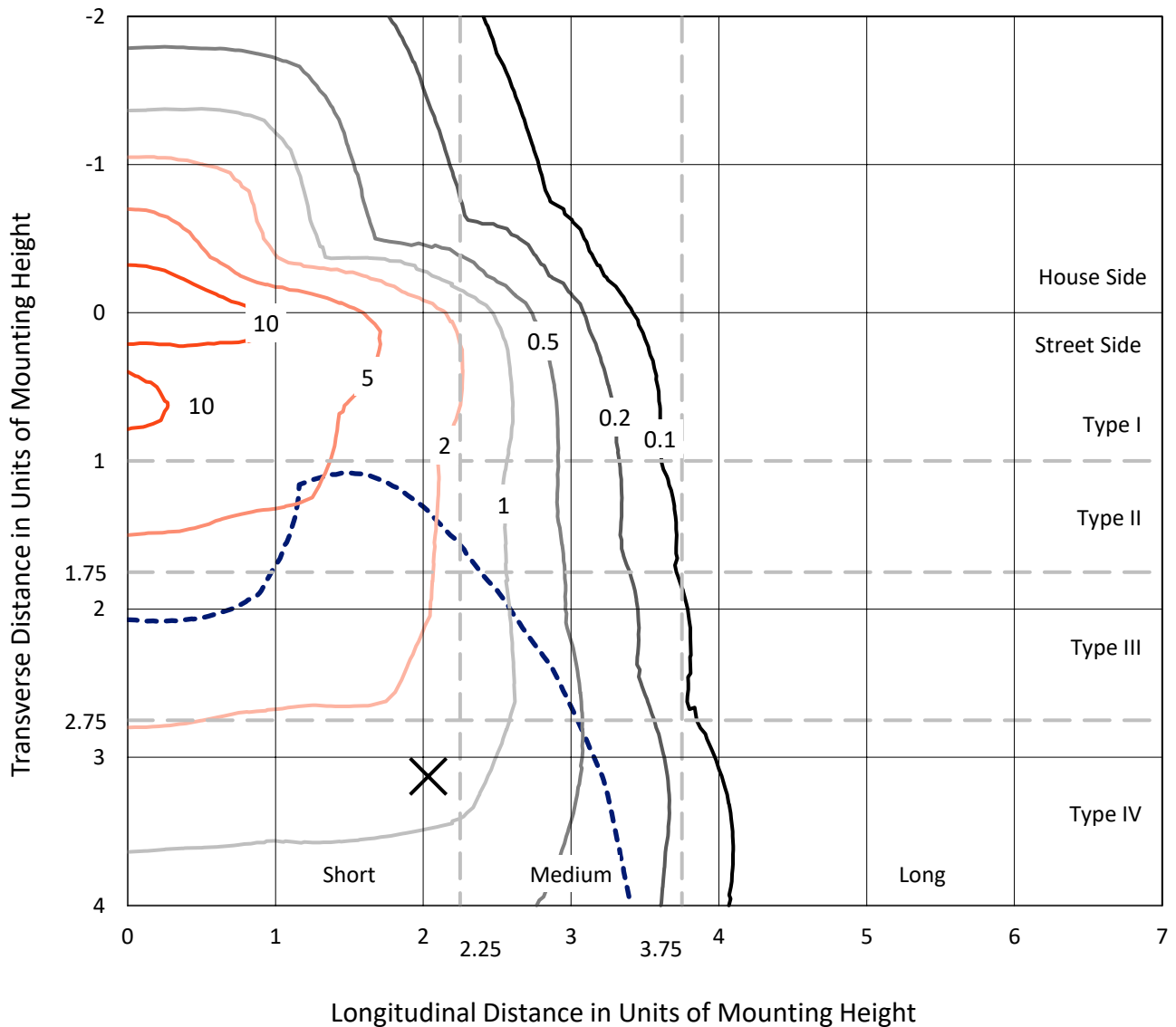
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

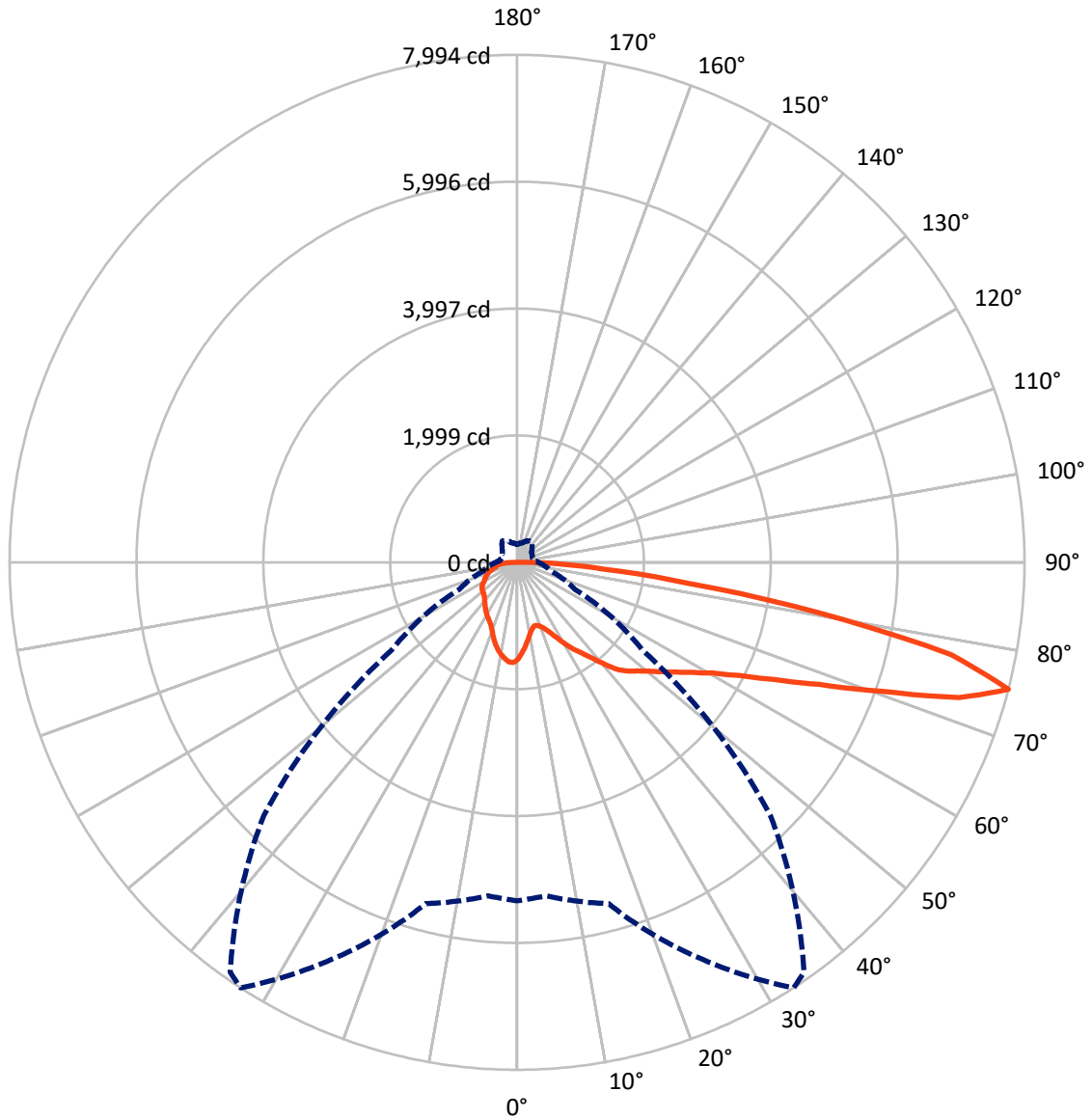
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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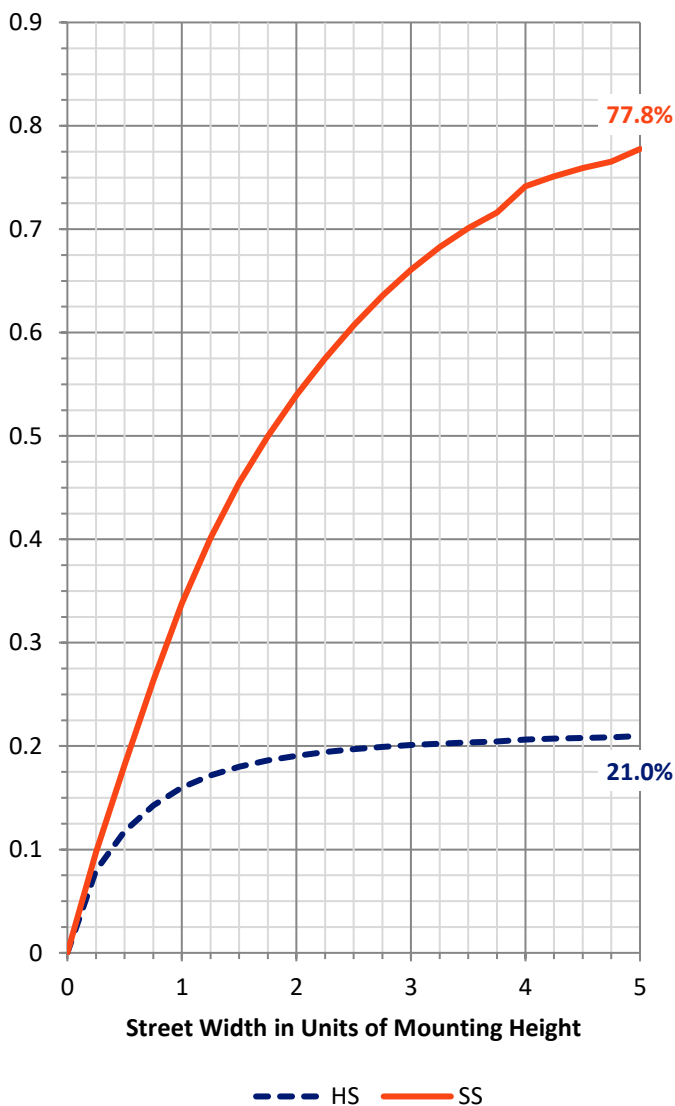
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2100.7	0.0	2100.7
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	7682.3	0.0	7682.3
	% Fixture	78.5	0.0	78.5
Total	Lumens	9783.0	0.0	9783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.3	1.4
10°-20°	374.6	3.8
20°-30°	611.7	6.3
30°-40°	911.0	9.3
40°-50°	1306.6	13.4
50°-60°	1793.7	18.3
60°-70°	2245.6	23.0
70°-80°	2031.5	20.8
80°-90°	370.1	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°	9783.0	100.0
0°-180°	9783.0	100.0

Coefficient of Utilization



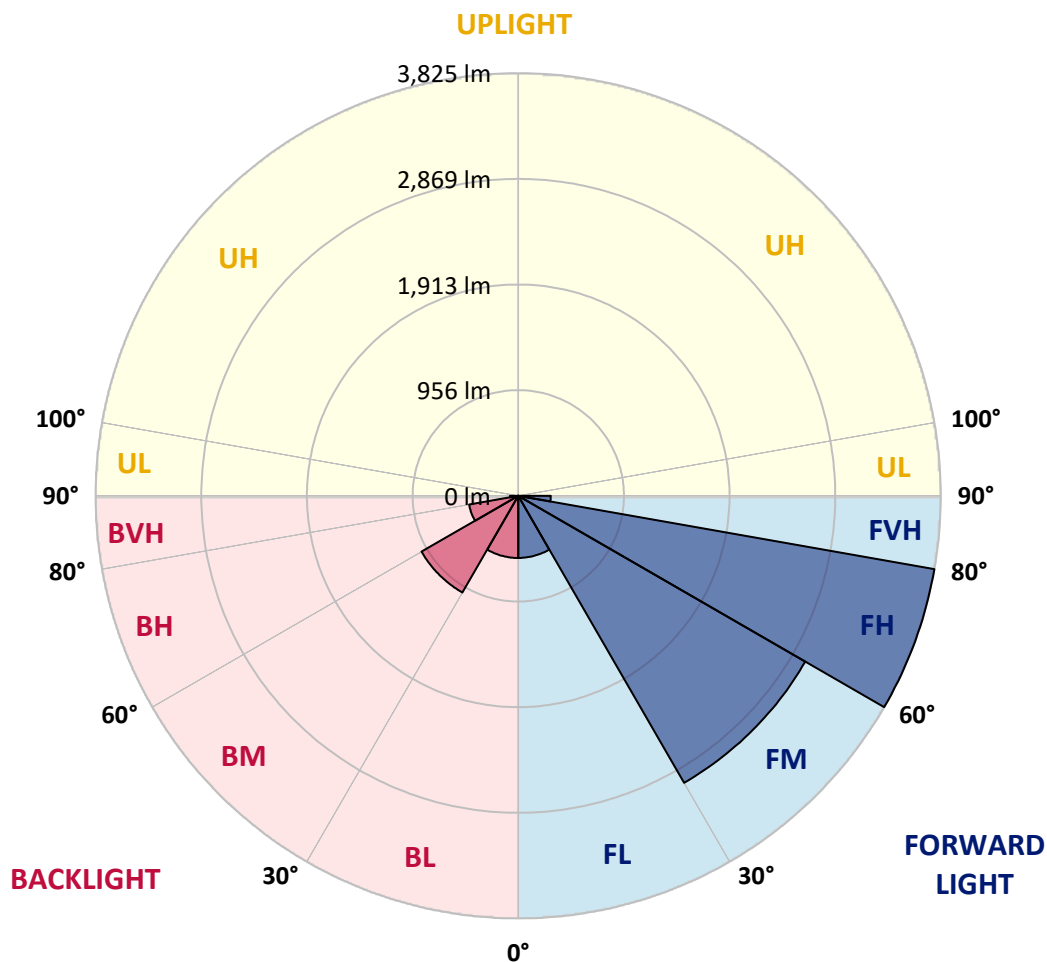
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	561.9	5.7			
FM (30°-60°)	3000.2	30.7			
FH (60°-80°)	3825.5	39.1			G2/5000
FVH (80°-90°)	294.7	3.0			G3/500
BL (0°-30°)	562.7	5.8	B2/1000		
BM (30°-60°)	1011.0	10.3	B2/2500		
BH (60°-80°)	451.7	4.6	B1/500		G1/500
BVH (80°-90°)	75.3	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1
2.5°	1420.0	1414.6	1424.7	1426.1	1434.9	1438.2	1450.4	1469.3	1484.9	1502.8	1519.0
5°	1291.2	1287.5	1301.7	1311.8	1331.1	1339.2	1367.9	1408.2	1444.0	1484.5	1521.4
7.5°	1168.9	1166.9	1182.8	1205.7	1228.0	1239.2	1288.9	1347.3	1407.1	1472.7	1529.1
10°	1065.8	1065.2	1080.4	1103.0	1135.8	1148.3	1212.5	1289.5	1373.4	1463.6	1542.3
12.5°	1008.0	1010.4	1017.5	1036.4	1066.8	1079.4	1150.7	1241.2	1345.0	1460.5	1561.6
15°	1022.2	1026.0	1013.8	1013.1	1034.7	1044.5	1111.5	1206.8	1324.7	1465.6	1589.6
17.5°	1082.7	1083.4	1051.3	1031.0	1044.2	1049.3	1099.3	1187.2	1312.9	1477.1	1624.8
20°	1167.9	1166.2	1109.4	1075.6	1082.7	1084.1	1116.5	1187.5	1311.8	1497.0	1670.4
22.5°	1280.8	1268.3	1191.9	1145.9	1144.2	1142.2	1160.8	1212.5	1326.7	1529.5	1724.8
25°	1428.1	1416.3	1311.2	1248.3	1234.8	1229.7	1232.4	1265.9	1356.1	1564.3	1785.6
27.5°	1592.0	1571.4	1470.0	1381.1	1353.1	1346.0	1329.8	1341.2	1388.2	1597.7	1857.9
30°	1729.2	1718.0	1629.5	1524.1	1491.0	1480.8	1438.2	1425.7	1434.5	1643.4	1949.2
32.5°	1805.9	1798.5	1744.7	1659.6	1628.8	1614.6	1554.5	1529.5	1508.9	1715.3	2072.9
35°	1898.8	1894.1	1861.7	1799.8	1754.2	1739.3	1692.7	1666.7	1613.6	1814.4	2232.7
37.5°	2017.1	2012.0	2012.7	1962.7	1908.3	1894.4	1863.7	1836.3	1749.5	1944.5	2406.4
40°	2150.9	2141.1	2137.4	2135.0	2100.6	2092.8	2076.6	2039.4	1919.8	2099.9	2577.7
42.5°	2352.3	2317.5	2243.2	2271.2	2305.4	2301.3	2314.5	2261.1	2109.0	2283.7	2745.0
45°	2546.6	2489.5	2361.1	2367.2	2441.9	2464.5	2563.2	2525.4	2314.2	2485.1	2918.0
47.5°	2635.2	2591.9	2482.8	2483.1	2557.1	2604.1	2820.4	2793.3	2529.8	2713.9	3129.2
50°	2734.2	2690.9	2592.9	2629.8	2694.3	2744.3	3068.8	3054.9	2734.9	2964.3	3382.4
52.5°	2842.3	2769.0	2706.8	2772.7	2863.3	2921.4	3317.5	3279.6	2923.1	3216.4	3673.3
55°	2843.7	2823.8	2871.1	2919.4	3054.9	3126.2	3578.0	3478.0	3076.5	3464.1	3910.2
57.5°	3005.6	2973.1	3073.5	3095.8	3272.9	3353.3	3837.2	3650.7	3232.6	3654.0	4037.9
60°	3219.8	3192.1	3274.2	3333.0	3542.5	3650.0	4114.0	3828.1	3355.3	3797.3	4031.9
62.5°	3589.8	3558.4	3557.4	3639.9	3922.0	4047.1	4424.5	4002.1	3404.0	3825.7	3859.8
65°	4131.5	4081.5	3987.2	4026.4	4446.2	4570.9	4771.6	4128.2	3339.8	3673.6	3416.8
67.5°	4658.7	4657.0	4541.1	4621.5	5138.2	5238.3	5167.0	4140.7	3139.4	3144.1	2630.8
70°	5184.2	5191.0	5171.4	5451.2	6073.3	6177.4	5588.0	3972.7	2688.9	2270.6	1576.1
72.5°	5600.5	5598.8	5697.5	6419.0	7286.8	7263.5	5942.9	3463.8	1930.6	1225.7	753.2
75°	5330.9	5272.1	5566.1	6898.2	7994.1	7880.2	5641.1	2416.2	1002.0	557.9	405.5
77.5°	3477.0	3532.7	3964.3	5698.5	6992.5	6853.9	4138.6	1127.3	472.1	366.0	294.0
80°	1259.1	1317.9	1856.3	3227.9	4817.5	4794.9	2038.1	463.3	319.3	276.4	214.2
82.5°	433.2	454.9	732.3	1433.5	2720.0	2821.4	766.8	263.2	232.2	196.0	146.7
85°	170.0	194.6	334.9	689.7	1372.0	1382.1	310.6	157.5	161.5	128.4	80.4
87.5°	64.5	78.4	160.2	320.4	626.5	575.5	111.2	75.0	91.9	76.4	38.2
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°	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1	1529.1
2.5°	1531.5	1538.6	1553.5	1563.6	1574.4	1577.5	1578.8	1581.5	1584.2	1583.2	1583.5
5°	1541.0	1554.8	1578.8	1589.0	1593.7	1588.3	1577.8	1569.4	1563.3	1559.9	1558.9
7.5°	1556.5	1576.1	1601.8	1600.1	1589.3	1565.3	1538.3	1518.0	1501.1	1495.0	1491.6
10°	1577.1	1600.1	1618.0	1598.8	1567.3	1525.8	1485.2	1453.8	1428.4	1418.6	1416.9
12.5°	1603.5	1626.8	1630.2	1589.3	1537.2	1480.5	1425.4	1383.8	1346.0	1333.8	1331.1
15°	1637.6	1659.6	1638.6	1572.7	1500.1	1423.7	1352.4	1296.0	1256.1	1241.2	1235.8
17.5°	1673.4	1694.4	1640.3	1545.4	1451.4	1356.5	1266.9	1209.1	1163.5	1146.3	1144.2
20°	1716.4	1725.8	1633.2	1506.2	1384.5	1269.3	1175.0	1120.6	1096.2	1084.1	1082.7
22.5°	1769.4	1759.3	1617.0	1453.1	1299.7	1168.6	1091.9	1066.5	1060.4	1057.7	1058.7
25°	1825.5	1794.4	1593.0	1383.8	1192.6	1067.9	1031.0	1038.1	1046.2	1045.2	1045.2
27.5°	1887.3	1830.2	1556.2	1291.9	1073.9	985.4	989.8	1015.8	1028.0	1027.6	1027.3
30°	1966.8	1870.8	1509.2	1181.4	963.1	927.3	954.0	985.7	1002.3	1001.6	1002.0
32.5°	2064.4	1915.4	1445.3	1058.1	883.0	884.4	915.1	946.5	965.8	964.1	964.5
35°	2178.6	1965.4	1358.8	936.4	830.0	850.2	874.6	896.5	914.8	912.4	910.0
37.5°	2303.0	2014.4	1243.9	827.6	786.7	818.5	838.7	842.5	850.9	844.8	840.4
40°	2421.3	2051.9	1095.9	738.4	743.1	791.4	804.6	789.7	774.5	772.5	766.4
42.5°	2524.3	2064.4	946.2	667.1	697.2	763.0	771.2	740.1	712.7	699.9	694.4
45°	2633.2	2068.8	806.6	607.3	652.9	737.7	746.5	704.9	666.4	638.7	629.6
47.5°	2775.4	2100.6	698.2	563.0	619.1	720.8	733.3	676.9	626.9	587.3	578.9
50°	2961.6	2163.4	610.0	529.2	597.1	709.7	723.8	649.5	594.4	546.8	538.3
52.5°	3168.4	2221.2	538.7	501.8	575.8	690.1	711.7	629.9	564.0	509.3	500.1
55°	3313.1	2177.0	481.2	473.4	548.1	662.0	694.8	613.3	520.4	472.8	464.7
57.5°	3340.8	2025.6	437.6	444.0	514.7	626.9	668.8	576.5	496.8	456.9	448.4
60°	3265.1	1814.7	405.2	417.0	478.8	582.6	620.1	550.5	474.1	440.0	432.9
62.5°	3074.8	1598.8	381.2	392.7	445.4	537.6	589.7	523.1	451.1	420.7	413.6
65°	2690.6	1342.3	358.2	371.0	414.3	498.8	562.3	497.8	428.5	405.2	398.4
67.5°	2031.0	1005.3	336.6	348.1	386.6	465.0	532.6	472.8	406.5	391.7	383.6
70°	1195.9	629.6	311.9	324.1	357.5	429.8	500.8	445.4	379.2	372.4	361.9
72.5°	556.6	378.8	283.9	295.7	321.0	382.9	459.9	409.6	346.7	331.8	317.7
75°	332.2	277.1	250.7	261.2	279.1	332.9	408.6	373.1	316.0	296.4	281.5
77.5°	248.4	211.9	214.2	225.4	239.9	291.3	361.9	344.4	292.3	277.1	267.0
80°	178.8	160.9	174.7	186.9	202.1	264.9	346.7	318.3	264.3	244.0	234.5
82.5°	119.3	115.6	131.5	144.0	158.8	231.8	325.8	278.8	225.7	200.1	179.1
85°	65.9	69.6	88.5	93.9	106.8	163.2	267.0	224.0	170.0	136.9	130.8
87.5°	27.4	32.1	47.6	46.0	56.8	97.3	175.7	135.2	108.1	80.8	62.9
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)