

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: P386627

Luminaire Tested: GAW-SA2B-735-U-T4FT

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386627
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-SA2B-735-U-T4FT
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3500K, 800mA 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: 11270.8 lumens
Efficiency: N/A
Efficacy: 131.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

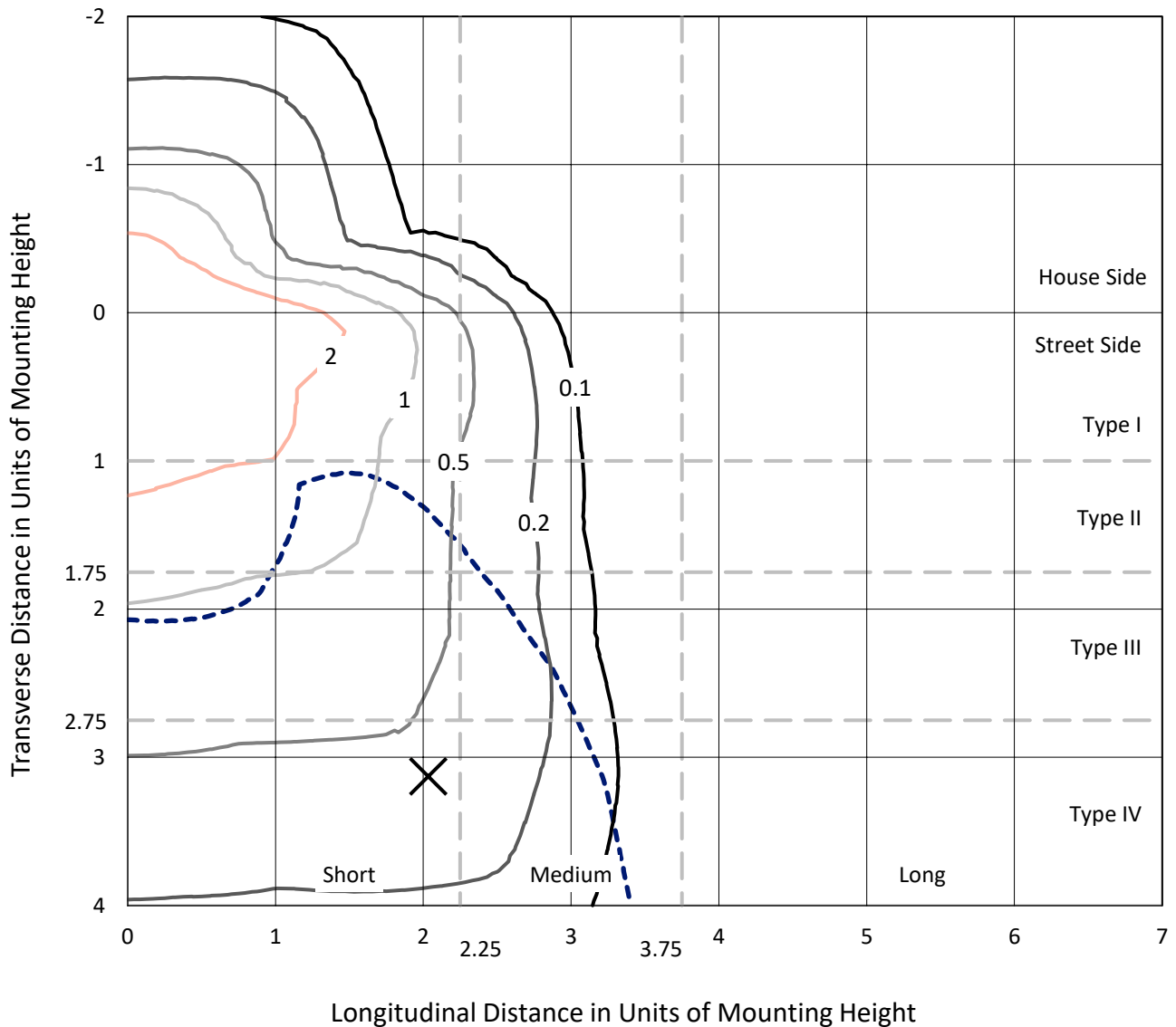
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

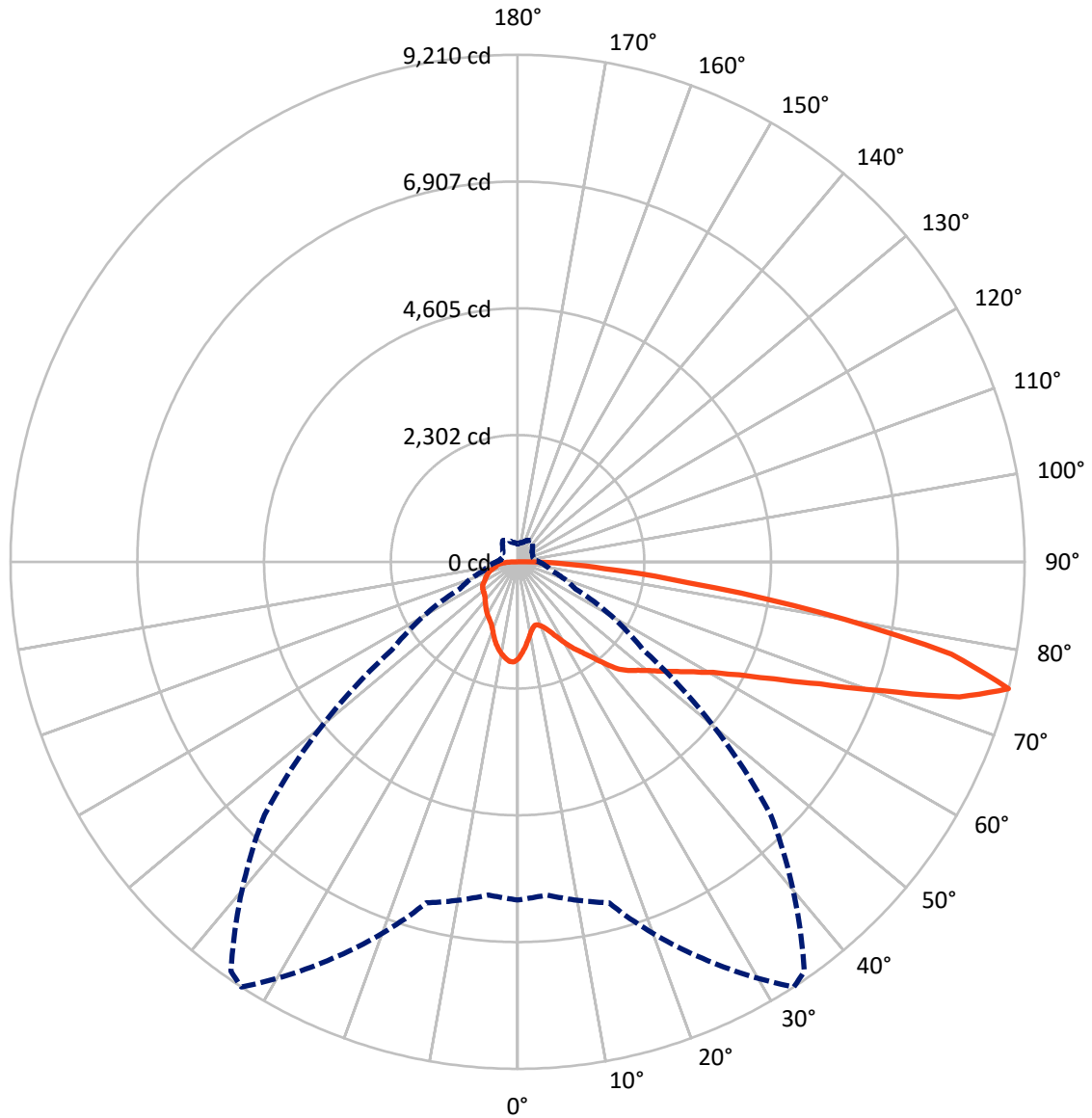
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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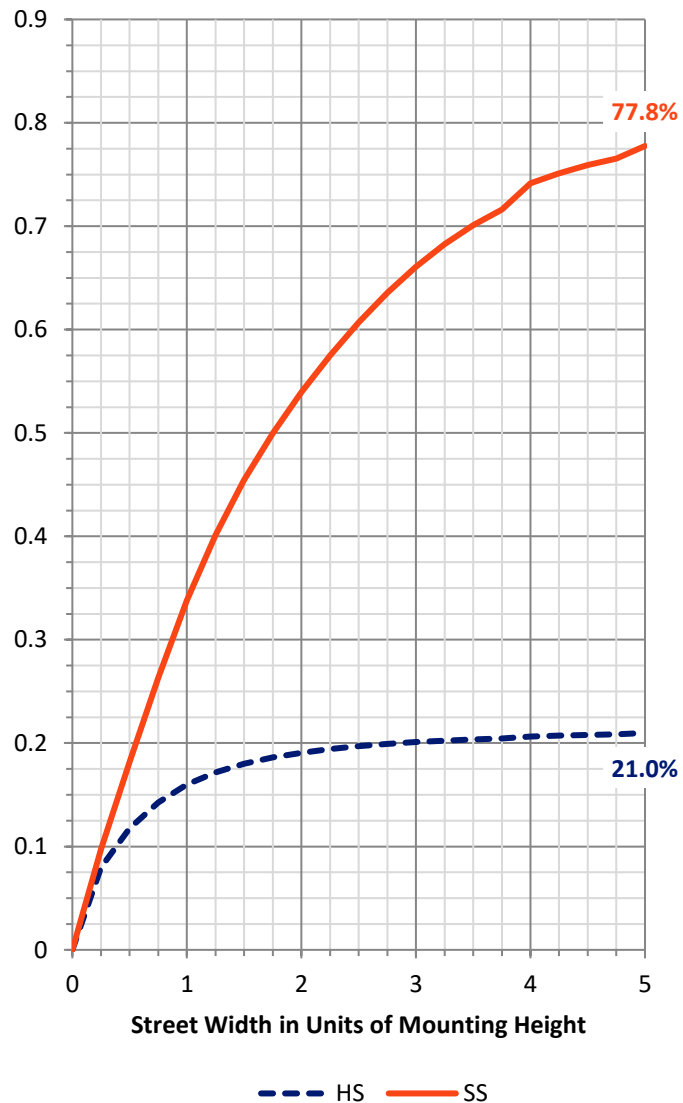
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2420.2	0.0	2420.2
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	8850.7	0.0	8850.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	11270.8	0.0	11270.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	1.4
10°-20°	431.5	3.8
20°-30°	704.7	6.3
30°-40°	1049.5	9.3
40°-50°	1505.3	13.4
50°-60°	2066.5	18.3
60°-70°	2587.2	23.0
70°-80°	2340.5	20.8
80°-90°	426.3	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°	11270.8	100.0
0°-180°	11270.8	100.0

Coefficient of Utilization

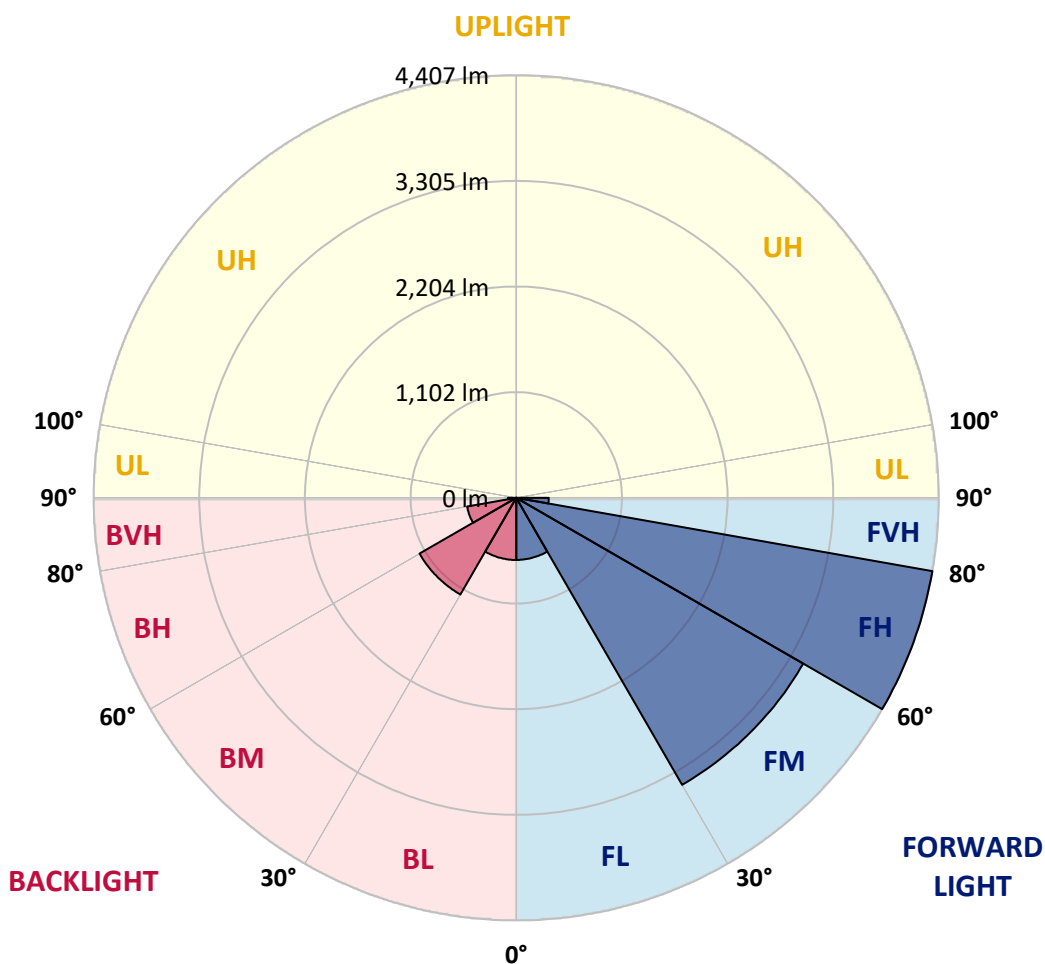


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	647.3	5.7			
FM	(30°-60°)	3456.5	30.7			
FH	(60°-80°)	4407.3	39.1			G2/5000
FVH	(80°-90°)	339.5	3.0			G3/500
BL	(0°-30°)	648.2	5.8	B2/1000		
BM	(30°-60°)	1164.8	10.3	B2/2500		
BH	(60°-80°)	520.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	86.8	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°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1636.0	1629.8	1641.4	1642.9	1653.1	1657.0	1671.0	1692.8	1710.7	1731.3	1750.0
5°	1487.6	1483.3	1499.6	1511.4	1533.6	1542.9	1576.0	1622.3	1663.6	1710.3	1752.7
7.5°	1346.7	1344.4	1362.7	1389.1	1414.8	1427.7	1484.9	1552.3	1621.1	1696.6	1761.7
10°	1228.0	1227.1	1244.7	1270.7	1308.5	1322.9	1396.9	1485.7	1582.2	1686.2	1776.9
12.5°	1161.4	1164.1	1172.3	1194.1	1229.1	1243.5	1325.7	1429.9	1549.5	1682.6	1799.0
15°	1177.7	1181.9	1167.9	1167.2	1192.1	1203.4	1280.5	1390.3	1526.1	1688.5	1831.3
17.5°	1247.4	1248.2	1211.2	1187.9	1203.0	1208.8	1266.5	1367.7	1512.5	1701.7	1871.8
20°	1345.5	1343.5	1278.1	1239.2	1247.4	1248.9	1286.3	1368.1	1511.4	1724.7	1924.4
22.5°	1475.5	1461.1	1373.1	1320.2	1318.3	1315.9	1337.3	1396.9	1528.5	1762.1	1987.1
25°	1645.3	1631.6	1510.5	1438.2	1422.6	1416.8	1419.9	1458.4	1562.4	1802.2	2057.2
27.5°	1834.1	1810.4	1693.5	1591.1	1558.8	1550.7	1532.0	1545.2	1599.3	1840.7	2140.5
30°	1992.2	1979.3	1877.3	1755.8	1717.7	1706.0	1657.0	1642.5	1652.7	1893.3	2245.6
32.5°	2080.6	2072.0	2010.1	1911.9	1876.5	1860.2	1790.9	1762.1	1738.3	1976.2	2388.1
35°	2187.7	2182.2	2144.8	2073.5	2021.0	2003.8	1950.1	1920.1	1859.1	2090.2	2572.2
37.5°	2323.9	2318.0	2318.8	2261.2	2198.6	2182.6	2147.2	2115.6	2015.6	2240.2	2772.3
40°	2478.0	2466.8	2462.5	2459.8	2420.1	2411.0	2392.4	2349.6	2211.8	2419.2	2969.8
42.5°	2710.1	2670.0	2584.4	2616.7	2655.9	2651.3	2666.5	2604.9	2429.7	2631.1	3162.5
45°	2933.9	2868.2	2720.2	2727.2	2813.3	2839.3	2953.1	2909.4	2666.1	2863.1	3361.8
47.5°	3035.9	2986.1	2860.4	2860.7	2946.0	3000.1	3249.3	3218.2	2914.5	3126.7	3605.1
50°	3150.1	3100.2	2987.3	3029.7	3104.1	3161.7	3535.5	3519.5	3150.8	3415.2	3896.8
52.5°	3274.6	3190.1	3118.5	3194.4	3298.8	3365.8	3822.0	3778.4	3367.6	3705.6	4232.0
55°	3276.1	3253.2	3307.7	3363.4	3519.5	3601.6	4122.2	4006.9	3544.4	3991.0	4504.9
57.5°	3462.7	3425.3	3541.0	3566.6	3770.6	3863.3	4420.8	4205.9	3724.3	4209.8	4652.1
60°	3709.5	3677.5	3772.1	3840.0	4081.3	4205.1	4739.6	4410.3	3865.6	4374.9	4645.0
62.5°	4135.8	4099.6	4098.4	4193.5	4518.5	4662.6	5097.4	4610.7	3921.7	4407.5	4446.9
65°	4759.9	4702.2	4593.6	4638.8	5122.3	5266.1	5497.2	4756.0	3847.7	4232.3	3936.4
67.5°	5367.2	5365.3	5231.8	5324.4	5919.7	6034.9	5952.8	4770.4	3616.9	3622.3	3030.9
70°	5972.7	5980.5	5957.8	6280.2	6997.0	7116.8	6437.9	4576.9	3097.8	2615.8	1815.8
72.5°	6452.3	6450.3	6564.0	7395.2	8395.0	8368.1	6846.7	3990.5	2224.2	1412.1	867.8
75°	6141.6	6073.8	6412.6	7947.3	9209.9	9078.7	6499.0	2783.7	1154.3	642.7	467.2
77.5°	4005.8	4070.0	4567.1	6565.2	8056.0	7896.3	4768.1	1298.8	543.9	421.6	338.7
80°	1450.6	1518.3	2138.5	3718.9	5550.2	5524.1	2348.0	533.8	367.9	318.5	246.9
82.5°	499.1	524.0	843.7	1651.5	3133.7	3250.5	883.4	303.3	267.4	225.8	169.0
85°	195.9	224.2	385.8	794.6	1580.6	1592.4	357.8	181.4	186.1	148.0	92.6
87.5°	74.4	90.4	184.5	369.1	721.8	663.0	128.1	86.4	105.9	88.0	44.0
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°	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7	1761.7
2.5°	1764.5	1772.6	1789.7	1801.4	1813.9	1817.4	1818.9	1822.0	1825.1	1824.0	1824.4
5°	1775.4	1791.3	1818.9	1830.6	1836.0	1829.8	1817.7	1808.1	1801.0	1797.2	1795.9
7.5°	1793.2	1815.8	1845.4	1843.5	1831.0	1803.4	1772.2	1748.9	1729.4	1722.4	1718.5
10°	1817.0	1843.5	1864.1	1841.9	1805.7	1757.8	1711.1	1674.8	1645.7	1634.4	1632.5
12.5°	1847.3	1874.2	1878.1	1831.0	1771.0	1705.7	1642.2	1594.2	1550.7	1536.7	1533.6
15°	1886.7	1911.9	1887.8	1811.9	1728.2	1640.2	1558.1	1493.1	1447.1	1429.9	1423.7
17.5°	1927.9	1952.1	1889.8	1780.3	1672.1	1562.8	1459.5	1393.0	1340.4	1320.6	1318.3
20°	1977.4	1988.3	1881.6	1735.2	1595.1	1462.3	1353.7	1291.0	1263.0	1248.9	1247.4
22.5°	2038.5	2026.8	1862.9	1674.1	1497.3	1346.2	1257.9	1228.7	1221.7	1218.6	1219.7
25°	2103.1	2067.3	1835.3	1594.2	1374.0	1230.2	1187.9	1196.0	1205.3	1204.2	1204.2
27.5°	2174.4	2108.6	1792.8	1488.4	1237.3	1135.3	1140.3	1170.3	1184.3	1183.9	1183.5
30°	2265.9	2155.3	1738.7	1361.1	1109.6	1068.3	1099.1	1135.6	1154.7	1154.0	1154.3
32.5°	2378.4	2206.7	1665.2	1219.0	1017.3	1018.9	1054.3	1090.5	1112.7	1110.7	1111.1
35°	2510.0	2264.3	1565.5	1078.8	956.2	979.5	1007.6	1032.9	1053.9	1051.2	1048.5
37.5°	2653.2	2320.8	1433.1	953.5	906.3	943.0	966.3	970.6	980.4	973.3	968.2
40°	2789.5	2364.0	1262.5	850.7	856.2	911.8	927.0	909.9	892.3	890.0	883.0
42.5°	2908.3	2378.4	1090.1	768.5	803.2	879.1	888.5	852.6	821.1	806.3	800.1
45°	3033.6	2383.4	929.3	699.7	752.2	849.9	860.0	812.1	767.8	735.8	725.3
47.5°	3197.5	2420.1	804.3	648.7	713.3	830.4	844.8	779.8	722.2	676.6	666.9
50°	3412.1	2492.5	702.8	609.7	687.9	817.6	833.9	748.3	684.8	630.0	620.2
52.5°	3650.3	2559.0	620.6	578.1	663.4	795.0	819.9	725.7	649.8	586.7	576.2
55°	3816.9	2508.0	554.4	545.4	631.5	762.7	800.5	706.6	599.5	544.7	535.4
57.5°	3848.9	2333.6	504.2	511.6	592.9	722.2	770.5	664.2	572.3	526.3	516.7
60°	3761.6	2090.7	466.8	480.4	551.7	671.2	714.4	634.2	546.3	506.9	498.7
62.5°	3542.5	1841.9	439.2	452.4	513.1	619.4	679.4	602.7	519.8	484.7	476.6
65°	3099.8	1546.4	412.7	427.5	477.3	574.6	647.8	573.5	493.7	466.8	459.0
67.5°	2339.8	1158.3	387.8	401.0	445.4	535.7	613.6	544.7	468.4	451.2	441.9
70°	1377.8	725.3	359.3	373.4	411.9	495.2	577.0	513.1	436.8	429.0	417.0
72.5°	641.2	436.4	327.0	340.6	369.8	441.1	529.9	471.9	399.4	382.3	366.0
75°	382.7	319.2	288.9	301.0	321.6	383.5	470.7	429.8	364.0	341.5	324.3
77.5°	286.1	244.1	246.9	259.6	276.5	335.6	417.0	396.7	336.8	319.2	307.6
80°	205.9	185.3	201.3	215.3	232.8	305.2	399.4	366.7	304.5	281.1	270.2
82.5°	137.4	133.1	151.4	165.9	183.0	267.1	375.3	321.2	260.0	230.5	206.4
85°	75.9	80.2	102.0	108.2	123.1	188.1	307.6	258.1	195.9	157.6	150.7
87.5°	31.6	37.0	54.9	53.0	65.4	112.2	202.4	155.8	124.6	93.1	72.4
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)