

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: P386965

Luminaire Tested: GAW-SA2C-830-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P386965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2C-830-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11648 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

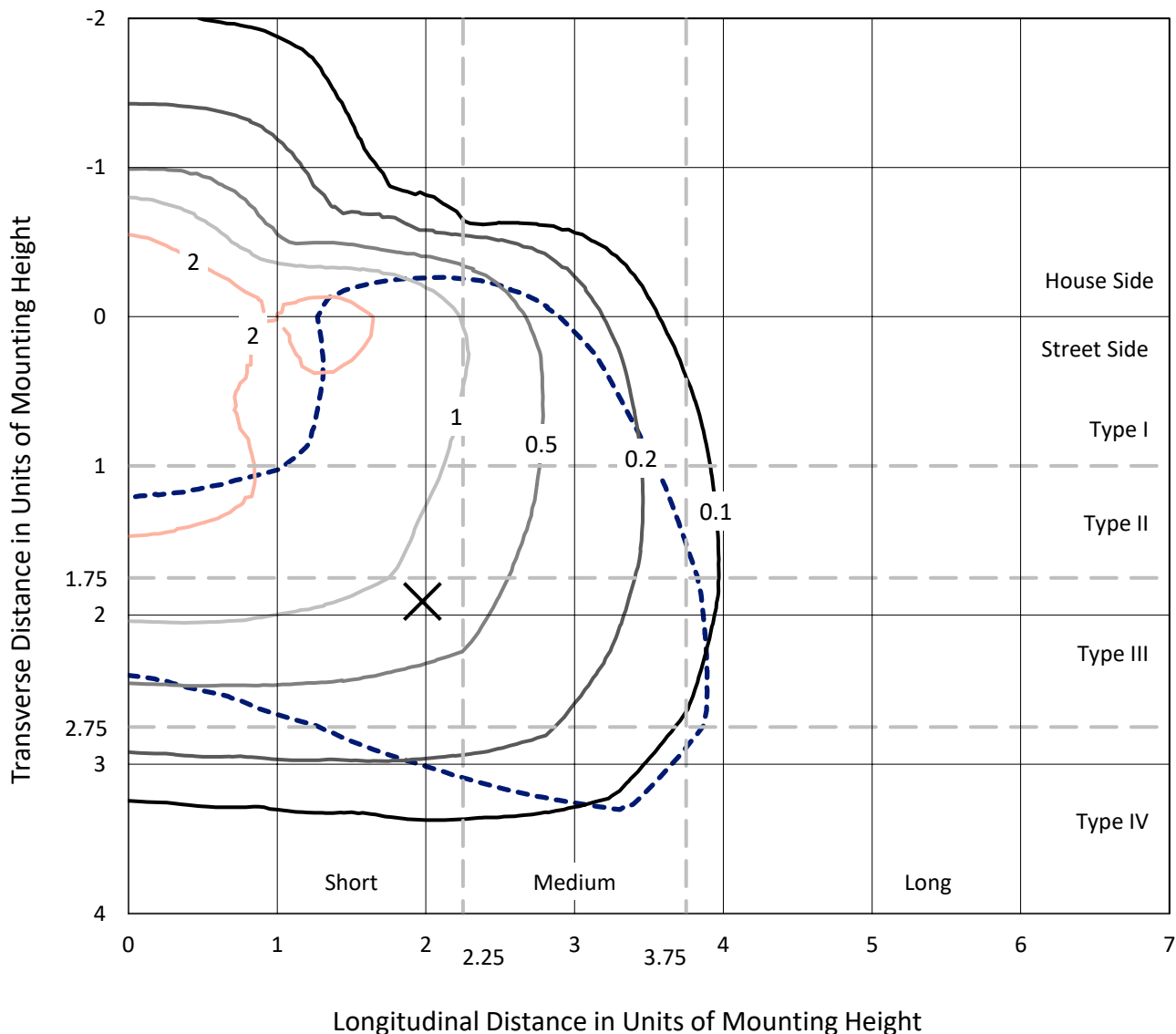
Input Watts (W): 111
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

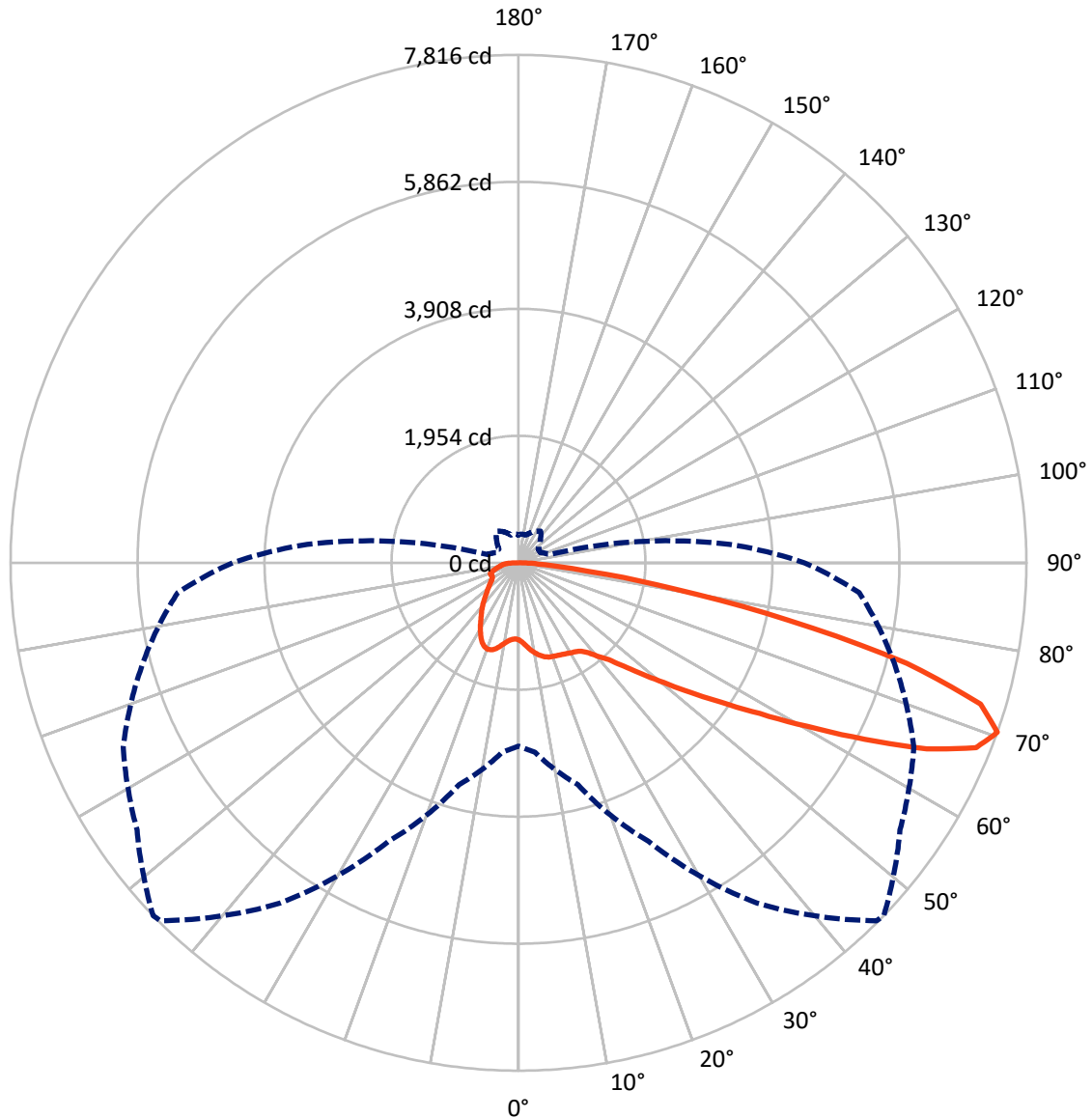
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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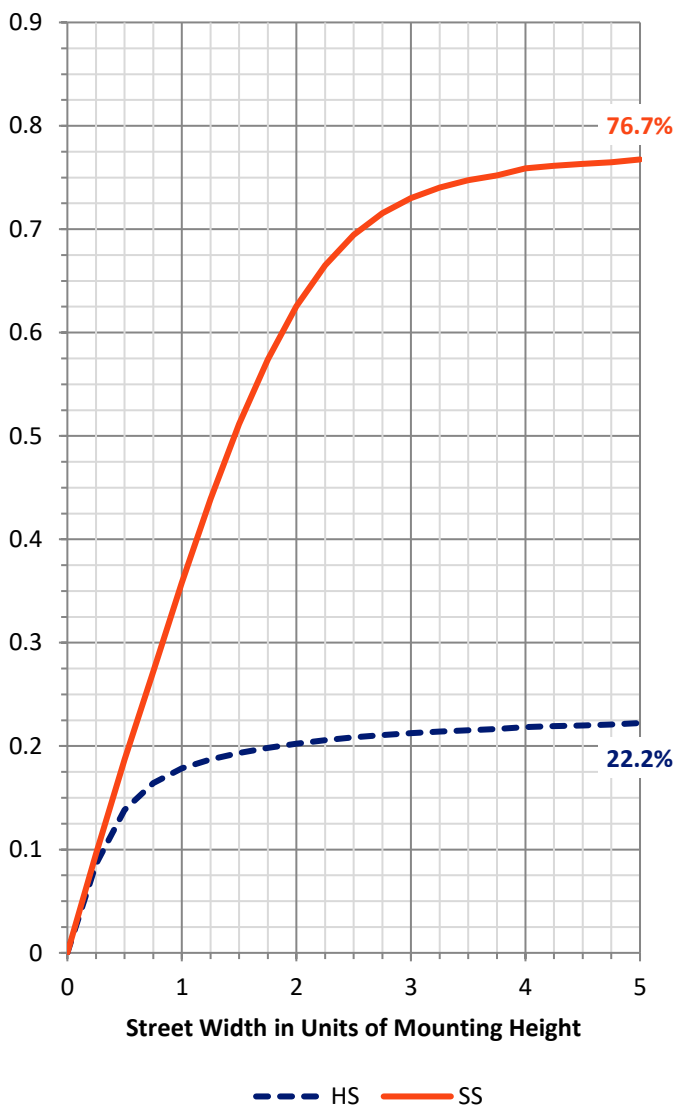
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2669.7	0.0	2669.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	8978.3	0.0	8978.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	11648.0	0.0	11648.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.0
10°-20°	403.1	3.5
20°-30°	672.0	5.8
30°-40°	953.7	8.2
40°-50°	1402.8	12.0
50°-60°	2375.6	20.4
60°-70°	3372.2	29.0
70°-80°	2048.6	17.6
80°-90°	299.0	2.6
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°	11648.0	100.0
0°-180°	11648.0	100.0

Coefficient of Utilization



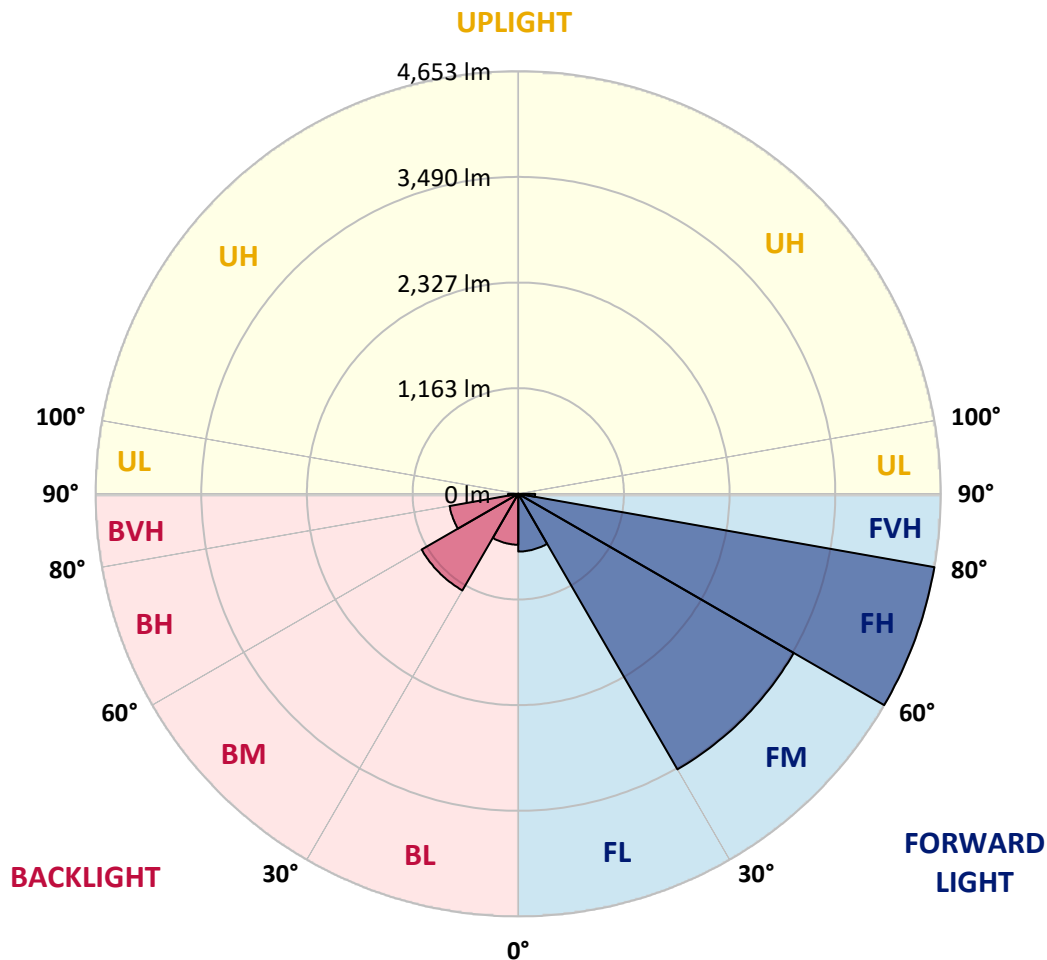
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.6	5.5			
FM (30°-60°)	3503.2	30.1			
FH (60°-80°)	4653.3	39.9			G2/5000
FVH (80°-90°)	186.2	1.6			G2/225
BL (0°-30°)	560.5	4.8	B2/1000		
BM (30°-60°)	1228.9	10.6	B2/2500		
BH (60°-80°)	767.5	6.6	B2/1000		G2/1000
BVH (80°-90°)	112.7	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1246.1	1246.9	1248.5	1244.5	1233.3	1230.2	1229.0	1217.4	1209.8	1198.7	1189.1
5°	1345.8	1346.6	1344.2	1333.0	1308.3	1289.9	1288.4	1262.0	1238.1	1212.6	1193.5
7.5°	1449.8	1451.0	1443.4	1422.3	1387.6	1355.7	1353.7	1317.9	1281.6	1242.9	1214.2
10°	1541.9	1537.1	1524.7	1495.2	1454.2	1415.1	1413.5	1376.0	1334.2	1287.6	1249.3
12.5°	1603.3	1599.3	1583.3	1547.5	1502.4	1466.5	1463.3	1428.7	1388.0	1337.0	1291.1
15°	1637.1	1639.9	1618.4	1577.8	1533.9	1503.6	1500.8	1476.1	1439.8	1388.4	1335.8
17.5°	1641.5	1643.9	1623.2	1582.9	1547.1	1526.3	1525.1	1508.8	1482.5	1433.1	1378.0
20°	1616.0	1617.6	1600.5	1567.4	1543.9	1537.5	1537.1	1529.9	1510.4	1466.5	1413.1
22.5°	1578.9	1580.1	1567.8	1543.9	1535.9	1545.9	1548.7	1545.9	1531.9	1490.9	1440.6
25°	1569.8	1569.0	1556.2	1531.9	1538.7	1559.8	1563.4	1564.6	1555.0	1519.2	1475.7
27.5°	1614.0	1611.2	1586.9	1547.9	1552.2	1577.8	1582.5	1594.1	1588.1	1556.6	1515.6
30°	1742.0	1737.2	1687.4	1608.4	1586.9	1600.1	1606.1	1624.4	1625.6	1599.3	1568.6
32.5°	1958.0	1952.1	1862.8	1721.7	1645.5	1622.8	1628.4	1655.9	1670.6	1650.3	1617.2
35°	2231.1	2224.3	2107.1	1914.2	1743.6	1666.2	1670.2	1692.2	1721.7	1693.0	1649.1
37.5°	2515.7	2499.4	2386.6	2140.6	1899.4	1759.1	1759.1	1761.9	1775.9	1716.1	1686.6
40°	2798.7	2782.4	2680.3	2406.9	2101.1	1905.4	1896.3	1834.5	1823.3	1771.9	1761.9
42.5°	3061.8	3057.0	2996.9	2707.9	2337.9	2049.3	2036.6	1931.7	1934.1	1902.2	1902.6
45°	3341.7	3341.7	3292.6	3011.6	2613.8	2280.5	2267.8	2113.5	2137.4	2122.7	2158.1
47.5°	3570.1	3577.3	3570.5	3328.1	2934.7	2574.3	2551.2	2365.4	2432.4	2483.0	2586.3
50°	3803.3	3814.4	3815.6	3675.3	3322.5	2923.5	2897.2	2699.9	2849.4	2994.5	3197.4
52.5°	4141.7	4166.8	4066.8	4021.7	3797.7	3338.1	3312.2	3130.0	3379.5	3583.2	3932.8
55°	4455.4	4433.5	4362.1	4390.0	4306.3	3810.0	3790.5	3630.7	3970.3	4235.0	4689.0
57.5°	4625.2	4623.6	4695.4	4815.0	4854.8	4392.0	4375.7	4220.2	4636.4	4835.3	5399.0
60°	4824.5	4827.3	5005.1	5276.6	5440.8	5116.7	5109.6	4991.6	5283.4	5395.8	5955.8
62.5°	4852.4	4902.7	5208.8	5676.0	5989.3	5963.4	5979.4	5686.4	5862.2	5843.0	6371.6
65°	4531.6	4597.7	5151.8	5796.8	6534.6	6889.4	6904.2	6385.2	6318.6	6225.3	6520.3
67.5°	3873.8	3971.9	4573.8	5534.1	6714.4	7573.9	7594.6	6926.9	6697.3	6354.9	6162.3
70°	2819.1	2927.9	3533.8	4726.5	6393.9	7792.7	7816.2	7166.5	6711.6	5986.1	5260.6
72.5°	1702.9	1788.2	2287.7	3479.6	5396.6	7394.1	7435.9	6862.7	6127.6	5070.5	3884.6
75°	747.8	803.6	1106.2	2005.1	3863.5	6117.7	6169.9	5874.1	4978.8	3684.9	2296.1
77.5°	318.5	334.4	453.6	871.0	2184.1	4180.4	4252.1	4292.0	3377.9	2005.1	970.3
80°	198.5	204.9	256.7	394.2	1022.1	2347.9	2425.2	2525.3	1677.4	737.1	338.8
82.5°	120.8	128.0	170.6	238.4	532.2	1064.3	1101.4	1172.0	651.0	318.5	175.4
85°	72.5	77.7	104.4	150.7	303.0	418.6	418.2	462.4	306.5	204.9	92.5
87.5°	34.7	38.7	55.8	78.1	152.7	157.1	147.1	166.6	186.2	134.3	46.6
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°	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7	1186.7
2.5°	1185.9	1184.3	1179.1	1175.1	1174.3	1172.0	1170.0	1171.2	1172.8	1173.2	1173.2
5°	1185.5	1181.1	1174.3	1171.6	1175.1	1179.9	1185.9	1193.9	1198.7	1202.2	1204.6
7.5°	1204.6	1196.3	1188.7	1187.1	1194.3	1207.0	1220.6	1237.3	1248.9	1256.9	1258.5
10°	1236.5	1226.2	1218.6	1220.2	1232.9	1251.3	1270.4	1291.9	1309.5	1320.2	1321.0
12.5°	1273.2	1263.2	1256.1	1262.8	1284.0	1306.3	1326.2	1345.0	1360.9	1371.7	1371.7
15°	1315.5	1308.3	1299.9	1315.5	1344.2	1364.1	1372.5	1381.6	1390.4	1398.4	1396.8
17.5°	1356.1	1349.3	1345.0	1363.3	1393.2	1402.4	1396.8	1390.0	1390.0	1394.4	1395.2
20°	1391.2	1385.2	1388.0	1405.9	1421.5	1411.9	1391.2	1369.7	1360.9	1363.3	1365.7
22.5°	1421.9	1419.1	1427.5	1435.8	1424.7	1391.2	1352.9	1323.8	1313.1	1312.3	1313.1
25°	1457.8	1457.4	1467.7	1452.6	1403.2	1341.4	1289.9	1261.6	1255.7	1260.4	1268.4
27.5°	1502.4	1506.8	1512.0	1456.6	1359.3	1266.0	1213.8	1194.3	1200.3	1211.8	1219.4
30°	1559.4	1571.4	1560.2	1446.6	1296.3	1179.9	1130.1	1124.5	1140.9	1157.2	1165.2
32.5°	1614.8	1633.6	1606.5	1420.7	1215.0	1088.6	1050.0	1048.4	1068.3	1084.3	1095.4
35°	1659.5	1696.5	1641.1	1369.3	1120.9	1004.5	976.2	965.5	972.6	991.4	1004.1
37.5°	1717.7	1779.5	1665.1	1290.7	1018.9	935.2	902.1	877.4	871.0	878.6	884.9
40°	1824.1	1905.8	1676.2	1181.1	919.2	865.8	832.3	796.1	770.9	752.6	753.0
42.5°	1997.9	2070.5	1669.0	1048.0	827.1	798.0	760.2	718.3	677.7	636.2	633.0
45°	2280.1	2315.2	1647.5	906.9	746.2	727.1	691.6	649.8	595.5	548.5	544.1
47.5°	2731.8	2654.0	1614.0	783.7	674.9	666.9	634.2	586.0	528.6	490.7	487.5
50°	3347.6	3143.1	1597.7	685.6	611.9	614.3	587.6	536.5	482.3	454.4	451.2
52.5°	4084.3	3712.8	1629.2	609.9	561.3	569.6	549.7	501.9	456.4	434.5	431.3
55°	4848.5	4302.7	1663.1	554.9	513.4	529.8	523.0	483.5	442.5	422.1	419.4
57.5°	5502.6	4743.2	1595.3	510.2	470.8	496.3	502.3	472.0	435.3	417.0	413.8
60°	5914.4	4920.6	1417.5	468.4	436.9	469.6	490.3	468.8	438.1	436.5	434.1
62.5°	6109.7	4905.1	1150.8	435.3	415.8	458.0	499.1	486.7	470.0	484.3	485.5
65°	6022.0	4670.7	857.0	413.4	400.6	462.4	525.4	520.6	479.1	493.5	495.5
67.5°	5444.8	4111.4	634.6	394.2	383.9	474.8	573.2	531.8	461.2	471.6	465.2
70°	4400.8	3259.5	489.5	372.7	366.7	473.2	594.7	525.0	441.7	444.1	426.9
72.5°	3034.7	2222.7	398.2	352.8	342.0	431.3	579.6	508.2	425.3	407.0	384.3
75°	1650.3	1193.1	338.4	332.1	298.6	378.7	551.7	496.3	410.6	386.3	373.5
77.5°	649.4	495.1	293.8	303.8	261.1	334.4	520.6	473.6	390.3	358.4	352.0
80°	265.1	252.7	243.6	262.7	224.4	292.6	483.1	446.9	365.9	332.5	319.7
82.5°	150.3	157.1	189.3	207.3	182.2	269.5	465.2	425.3	336.8	297.8	282.6
85°	76.9	92.1	131.9	148.7	133.9	229.2	428.5	372.3	270.3	228.0	229.2
87.5°	37.1	51.4	83.3	93.3	86.9	165.8	320.1	269.9	210.5	166.6	161.4
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)