

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: P319006

Luminaire Tested: **GAN-SA2C-730-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319006
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 (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 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: 13088 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

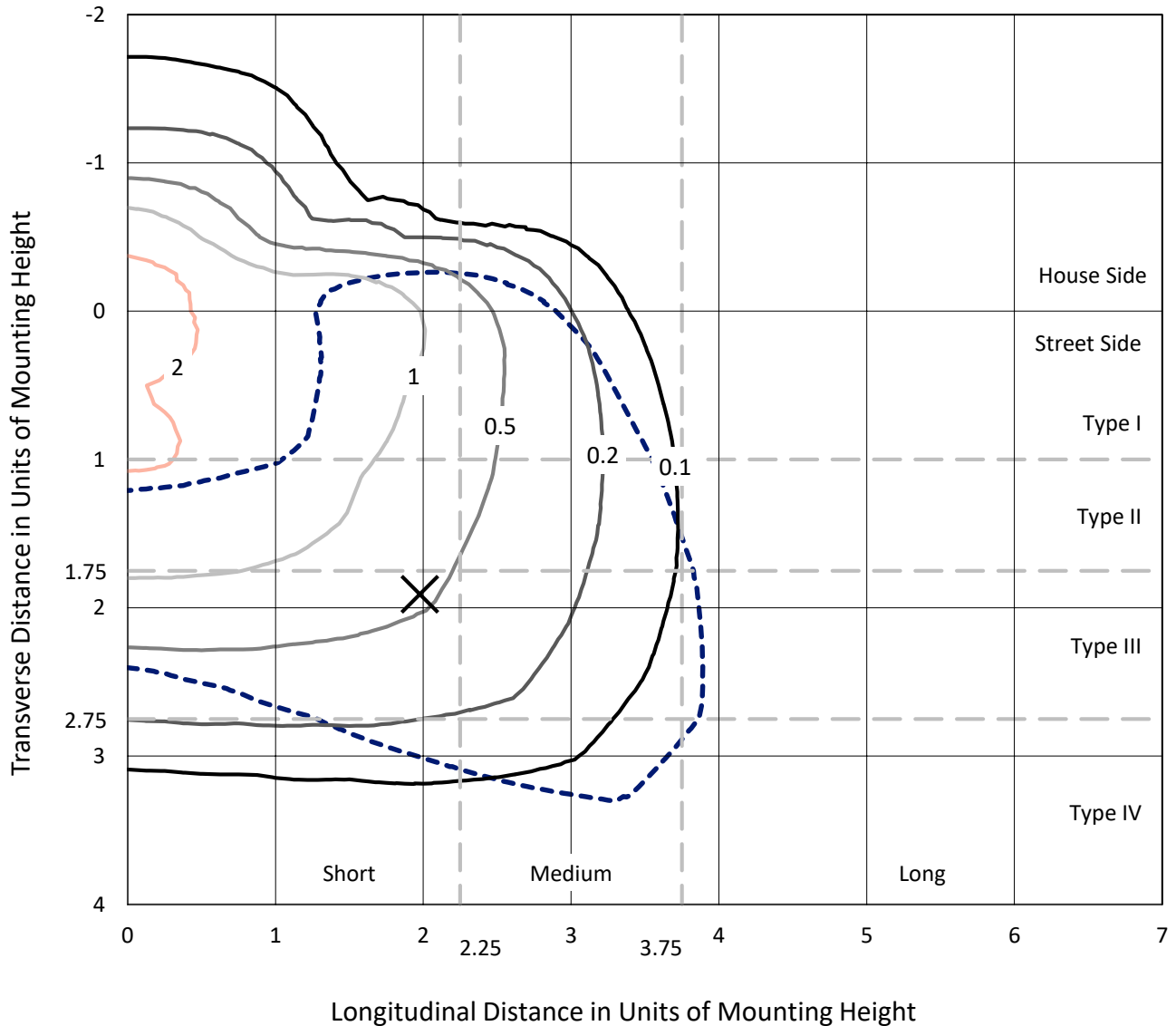
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

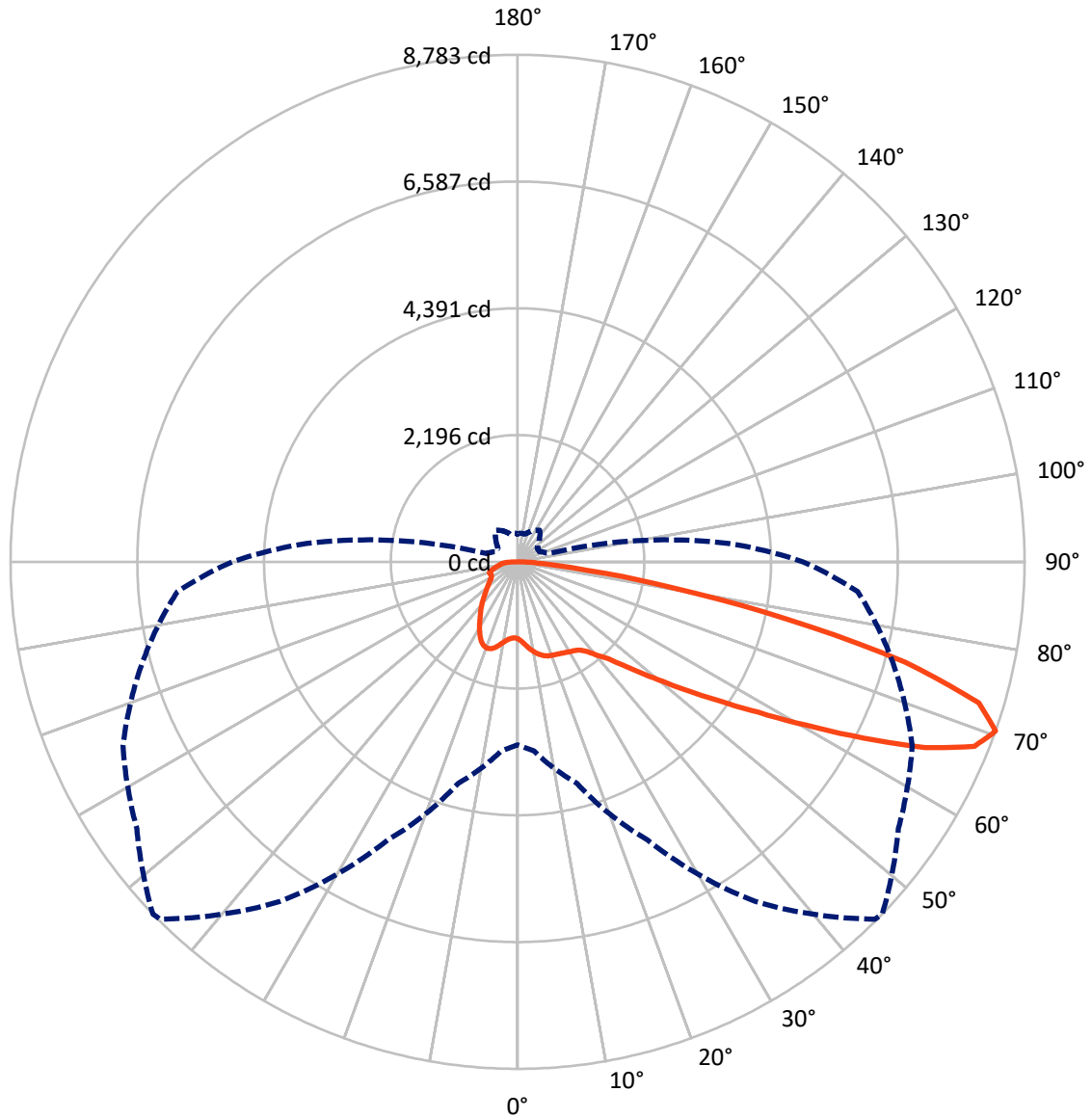
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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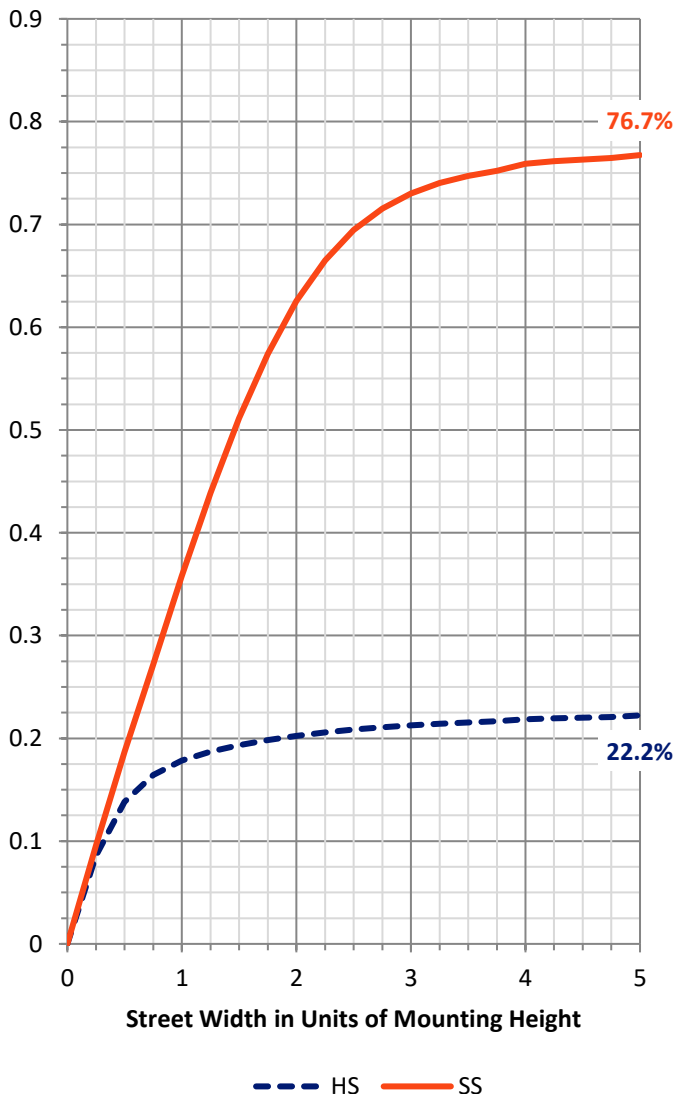
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2999.7	0.0	2999.7
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10088.3	0.0	10088.3
	% Fixture	77.1	0.0	77.1
Total	Lumens	13088.0	0.0	13088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	1.0
10°-20°	452.9	3.5
20°-30°	755.1	5.8
30°-40°	1071.6	8.2
40°-50°	1576.2	12.0
50°-60°	2669.3	20.4
60°-70°	3789.1	29.0
70°-80°	2301.9	17.6
80°-90°	335.9	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°	13088.0	100.0
0°-180°	13088.0	100.0

Coefficient of Utilization

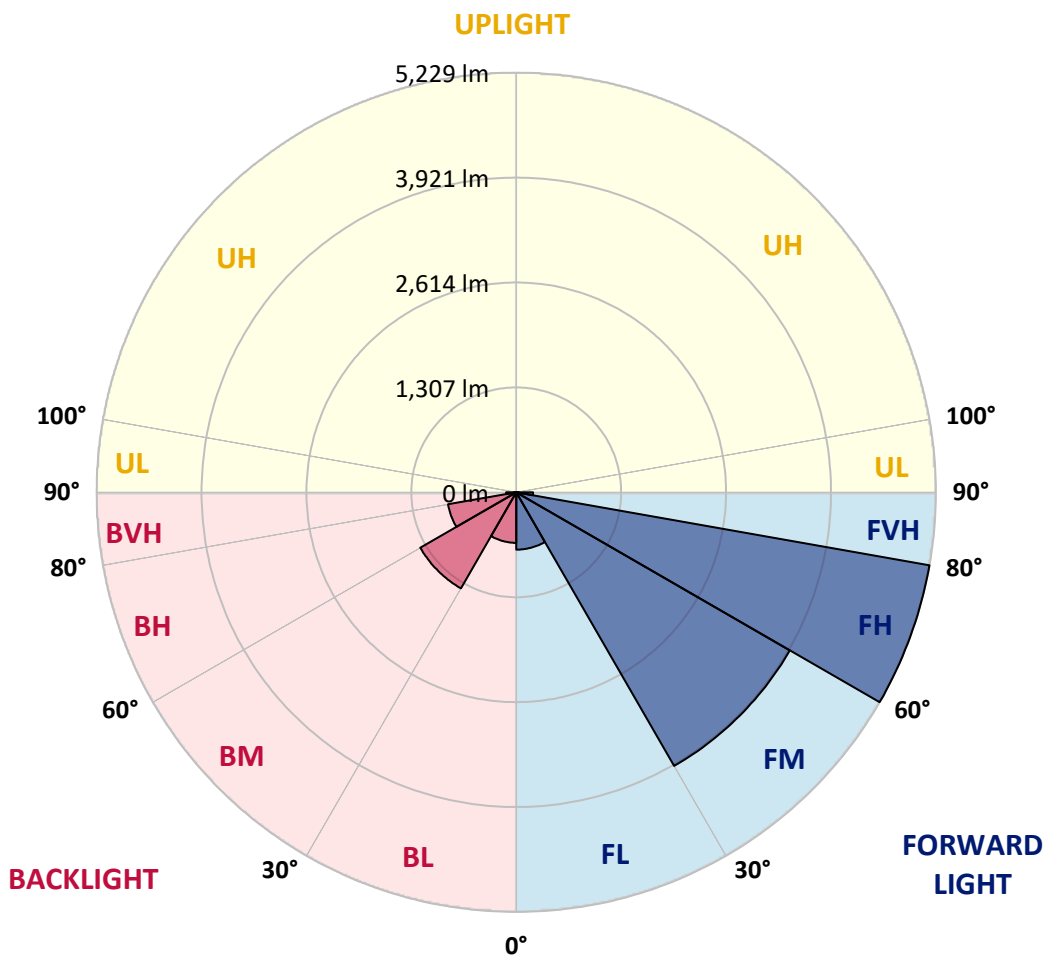


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.1	5.5			
FM (30°-60°)	3936.3	30.1			
FH (60°-80°)	5228.6	39.9			G3/7500
FVH (80°-90°)	209.3	1.6			G2/225
BL (0°-30°)	629.8	4.8	B2/1000		
BM (30°-60°)	1380.9	10.6	B2/2500		
BH (60°-80°)	862.4	6.6	B2/1000		G2/1000
BVH (80°-90°)	126.7	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4
2.5°	1400.1	1401.0	1402.8	1398.4	1385.8	1382.2	1380.9	1367.9	1359.4	1346.8	1336.1
5°	1512.1	1513.0	1510.3	1497.8	1470.0	1449.4	1447.6	1418.1	1391.2	1362.5	1341.0
7.5°	1629.0	1630.4	1621.9	1598.1	1559.2	1523.3	1521.1	1480.8	1440.0	1396.6	1364.3
10°	1732.5	1727.1	1713.2	1680.1	1634.0	1590.1	1588.3	1546.2	1499.1	1446.7	1403.7
12.5°	1801.5	1797.0	1779.1	1738.8	1688.2	1647.8	1644.3	1605.3	1559.6	1502.3	1450.8
15°	1839.5	1842.7	1818.5	1772.8	1723.5	1689.5	1686.4	1658.6	1617.8	1560.1	1500.9
17.5°	1844.5	1847.2	1823.9	1778.6	1738.3	1715.0	1713.7	1695.3	1665.8	1610.2	1548.4
20°	1815.8	1817.6	1798.3	1761.2	1734.7	1727.6	1727.1	1719.1	1697.1	1647.8	1587.8
22.5°	1774.1	1775.5	1761.6	1734.7	1725.8	1737.0	1740.1	1737.0	1721.3	1675.2	1618.7
25°	1763.8	1763.0	1748.6	1721.3	1728.9	1752.6	1756.7	1758.0	1747.3	1707.0	1658.1
27.5°	1813.6	1810.4	1783.1	1739.2	1744.1	1772.8	1778.2	1791.2	1784.5	1749.1	1702.9
30°	1957.3	1952.0	1896.0	1807.3	1783.1	1797.9	1804.6	1825.2	1826.6	1797.0	1762.5
32.5°	2200.1	2193.4	2093.1	1934.5	1848.9	1823.4	1829.7	1860.6	1877.2	1854.3	1817.1
35°	2506.9	2499.3	2367.6	2150.8	1959.1	1872.2	1876.7	1901.4	1934.5	1902.2	1853.0
37.5°	2826.7	2808.4	2681.6	2405.2	2134.3	1976.6	1976.6	1979.7	1995.4	1928.2	1895.1
40°	3144.7	3126.4	3011.7	2704.4	2360.9	2141.0	2130.7	2061.3	2048.7	1990.9	1979.7
42.5°	3440.4	3435.0	3367.3	3042.6	2627.0	2302.7	2288.3	2170.5	2173.2	2137.4	2137.8
45°	3754.8	3754.8	3699.7	3383.9	2936.9	2562.5	2548.1	2374.8	2401.7	2385.1	2425.0
47.5°	4011.4	4019.5	4011.9	3739.6	3297.5	2892.6	2866.6	2657.9	2733.1	2790.0	2906.0
50°	4273.5	4286.0	4287.3	4129.7	3733.3	3284.9	3255.4	3033.7	3201.6	3364.7	3592.6
52.5°	4653.7	4681.9	4569.5	4518.9	4267.2	3750.8	3721.6	3516.9	3797.3	4026.2	4419.0
55°	5006.2	4981.6	4901.4	4932.8	4838.7	4281.1	4259.1	4079.5	4461.1	4758.5	5268.7
57.5°	5197.0	5195.2	5275.9	5410.2	5455.0	4935.0	4916.6	4742.0	5209.6	5433.1	6066.4
60°	5421.0	5424.1	5623.9	5928.9	6113.4	5749.3	5741.2	5608.7	5936.5	6062.8	6692.1
62.5°	5452.3	5508.8	5852.8	6377.7	6729.8	6700.6	6718.6	6389.4	6586.9	6565.4	7159.3
65°	5091.8	5166.1	5788.7	6513.4	7342.5	7741.1	7757.7	7174.5	7099.7	6994.9	7326.4
67.5°	4352.7	4462.9	5139.3	6218.3	7544.5	8510.2	8533.5	7783.2	7525.2	7140.5	6924.2
70°	3167.6	3289.9	3970.7	5310.8	7184.4	8756.1	8782.5	8052.4	7541.4	6726.2	5911.0
72.5°	1913.4	2009.3	2570.5	3909.8	6063.7	8308.2	8355.2	7711.1	6885.2	5697.3	4364.8
75°	840.3	903.0	1242.9	2253.0	4341.1	6874.0	6932.7	6600.3	5594.3	4140.4	2579.9
77.5°	357.9	375.8	509.7	978.7	2454.1	4697.2	4777.8	4822.6	3795.5	2253.0	1090.2
80°	223.1	230.2	288.5	443.0	1148.4	2638.2	2725.0	2837.5	1884.8	828.2	380.7
82.5°	135.7	143.8	191.7	267.8	598.0	1195.9	1237.6	1316.8	731.4	357.9	197.1
85°	81.5	87.3	117.4	169.3	340.4	470.3	469.9	519.6	344.4	230.2	103.9
87.5°	39.0	43.4	62.7	87.8	171.5	176.5	165.3	187.2	209.2	150.9	52.4
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°	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4	1333.4
2.5°	1332.5	1330.7	1324.9	1320.4	1319.5	1316.8	1314.6	1315.9	1317.7	1318.2	1318.2
5°	1332.1	1327.1	1319.5	1316.4	1320.4	1325.8	1332.5	1341.5	1346.8	1350.9	1353.6
7.5°	1353.6	1344.2	1335.7	1333.9	1341.9	1356.3	1371.5	1390.3	1403.3	1412.2	1414.0
10°	1389.4	1377.8	1369.2	1371.0	1385.4	1406.0	1427.5	1451.7	1471.4	1483.5	1484.4
12.5°	1430.6	1419.4	1411.3	1419.0	1442.7	1467.8	1490.2	1511.2	1529.1	1541.2	1541.2
15°	1478.1	1470.0	1460.6	1478.1	1510.3	1532.7	1542.1	1552.4	1562.3	1571.2	1569.5
17.5°	1523.8	1516.2	1511.2	1531.8	1565.4	1575.7	1569.5	1561.8	1561.8	1566.8	1567.7
20°	1563.2	1556.5	1559.6	1579.8	1597.2	1586.5	1563.2	1539.0	1529.1	1531.8	1534.5
22.5°	1597.7	1594.5	1603.9	1613.4	1600.8	1563.2	1520.2	1487.5	1475.4	1474.5	1475.4
25°	1638.0	1637.5	1649.2	1632.2	1576.6	1507.2	1449.4	1417.6	1410.9	1416.3	1425.2
27.5°	1688.2	1693.1	1698.9	1636.6	1527.4	1422.5	1363.9	1341.9	1348.6	1361.6	1370.1
30°	1752.2	1765.6	1753.1	1625.4	1456.6	1325.8	1269.8	1263.5	1281.9	1300.3	1309.2
32.5°	1814.5	1835.5	1805.1	1596.3	1365.2	1223.2	1179.8	1178.0	1200.4	1218.3	1230.8
35°	1864.6	1906.3	1844.0	1538.6	1259.5	1128.7	1096.9	1084.8	1092.9	1113.9	1128.3
37.5°	1930.0	1999.4	1870.9	1450.3	1144.8	1050.8	1013.6	985.8	978.7	987.2	994.3
40°	2049.6	2141.4	1883.4	1327.1	1032.9	972.8	935.2	894.5	866.2	845.6	846.1
42.5°	2244.9	2326.4	1875.4	1177.5	929.4	896.7	854.2	807.1	761.4	714.9	711.3
45°	2562.0	2601.4	1851.2	1019.0	838.5	817.0	777.1	730.1	669.2	616.3	611.4
47.5°	3069.5	2982.1	1813.6	880.6	758.3	749.3	712.6	658.4	593.9	551.4	547.8
50°	3761.5	3531.7	1795.2	770.4	687.5	690.2	660.2	602.9	542.0	510.6	507.0
52.5°	4589.2	4171.8	1830.6	685.3	630.6	640.1	617.7	563.9	512.9	488.2	484.6
55°	5447.9	4834.7	1868.7	623.5	576.9	595.3	587.7	543.3	497.2	474.3	471.2
57.5°	6182.9	5329.6	1792.5	573.3	529.0	557.6	564.4	530.3	489.1	468.5	464.9
60°	6645.6	5528.9	1592.7	526.3	490.9	527.6	550.9	526.7	492.2	490.5	487.8
62.5°	6865.0	5511.5	1293.1	489.1	467.2	514.6	560.8	546.9	528.1	544.2	545.5
65°	6766.5	5248.1	963.0	464.5	450.1	519.6	590.3	585.0	538.4	554.5	556.7
67.5°	6117.9	4619.7	713.1	443.0	431.3	533.5	644.1	597.5	518.2	529.9	522.7
70°	4944.9	3662.5	550.0	418.8	412.1	531.7	668.3	589.9	496.3	499.0	479.7
72.5°	3409.9	2497.5	447.5	396.4	384.3	484.6	651.3	571.1	477.9	457.3	431.8
75°	1854.3	1340.6	380.3	373.1	335.5	425.5	619.9	557.6	461.3	434.0	419.7
77.5°	729.6	556.3	330.1	341.3	293.4	375.8	585.0	532.1	438.5	402.7	395.5
80°	297.9	284.0	273.7	295.2	252.2	328.8	542.9	502.1	411.2	373.6	359.2
82.5°	168.9	176.5	212.8	232.9	204.7	302.8	522.7	477.9	378.5	334.6	317.6
85°	86.4	103.5	148.3	167.1	150.5	257.5	481.5	418.3	303.7	256.2	257.5
87.5°	41.7	57.8	93.6	104.8	97.6	186.3	359.7	303.2	236.5	187.2	181.4
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)