

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: P387021

Luminaire Tested: GAW-SA2D-727-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387021
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-SA2D-727-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13447 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

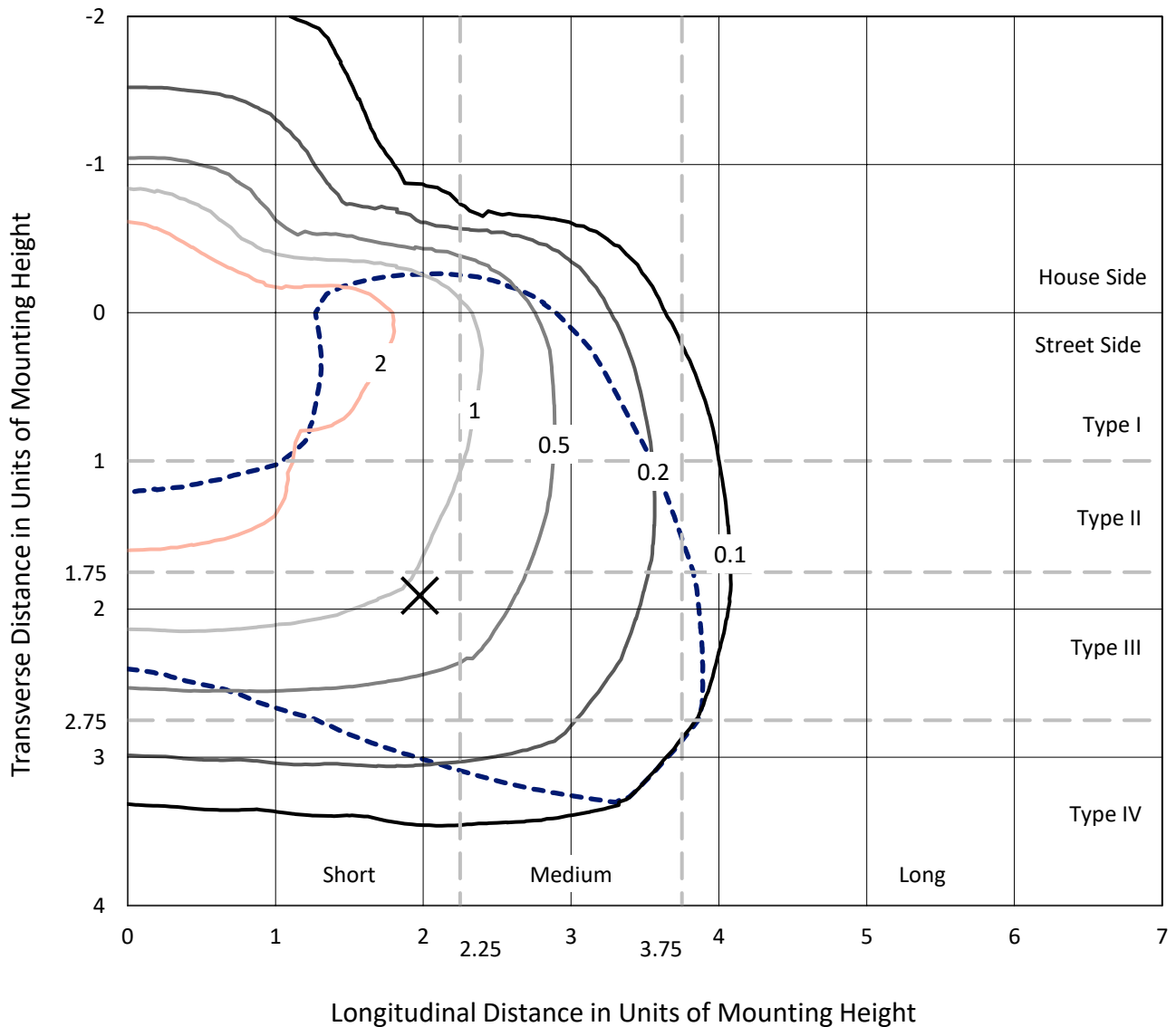
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

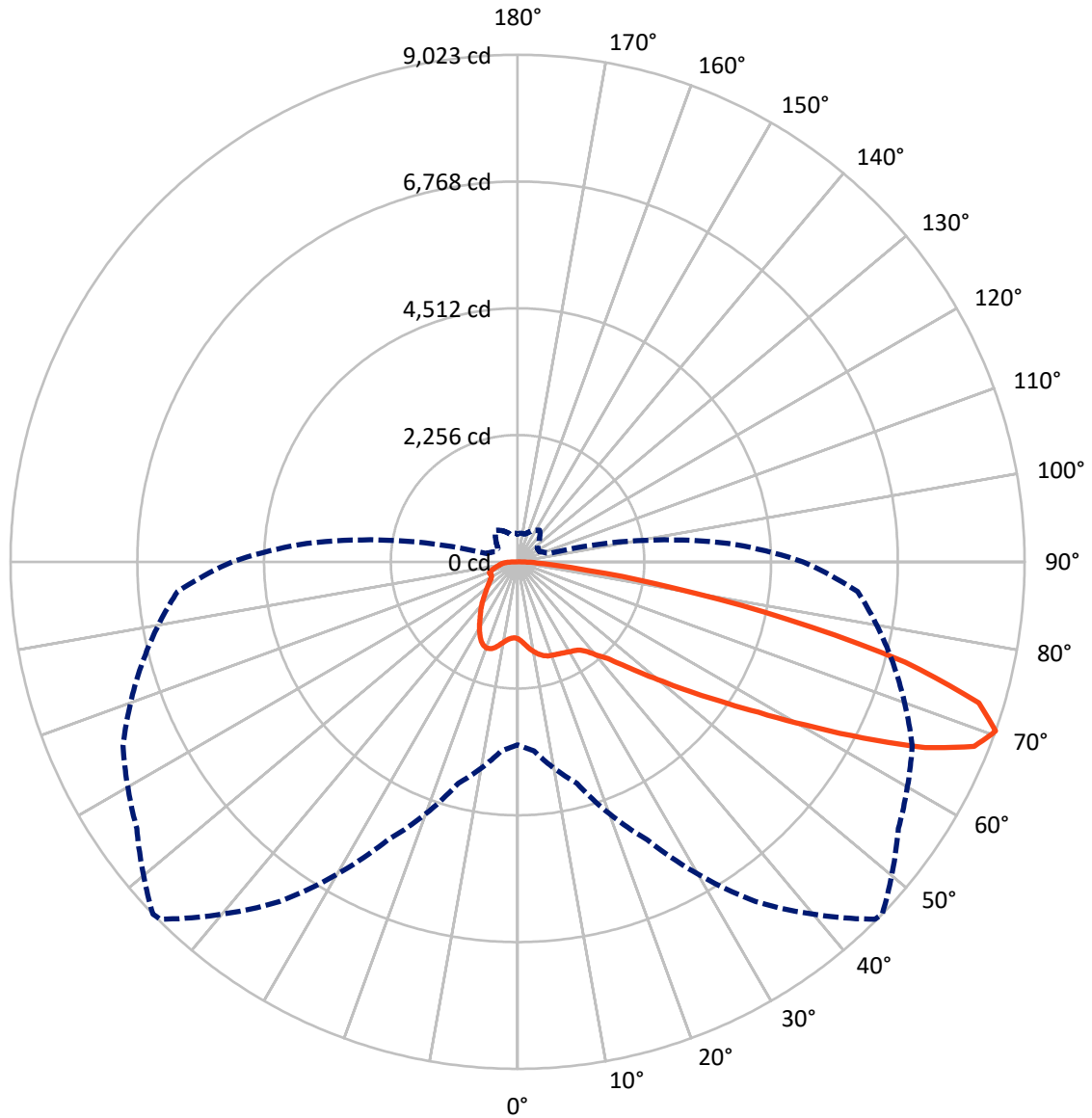
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.3 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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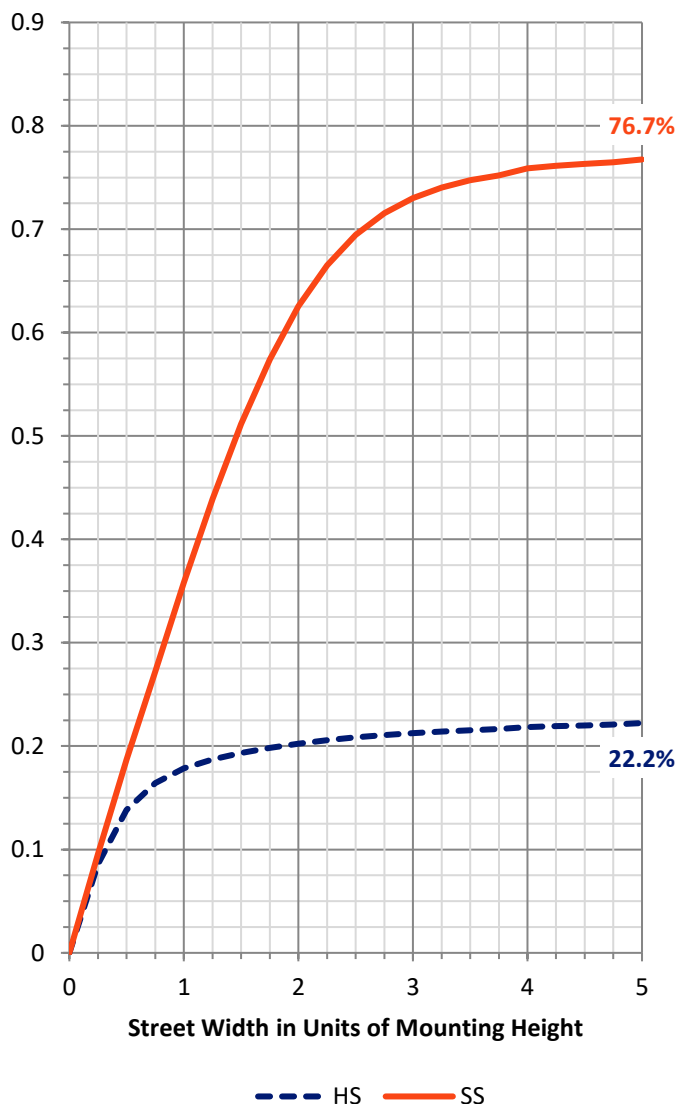
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3082.0	0.0	3082.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	10365.0	0.0	10365.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	13447.0	0.0	13447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.0
10°-20°	465.3	3.5
20°-30°	775.8	5.8
30°-40°	1101.0	8.2
40°-50°	1619.5	12.0
50°-60°	2742.6	20.4
60°-70°	3893.0	29.0
70°-80°	2365.0	17.6
80°-90°	345.2	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°	13447.0	100.0
0°-180°	13447.0	100.0

Coefficient of Utilization

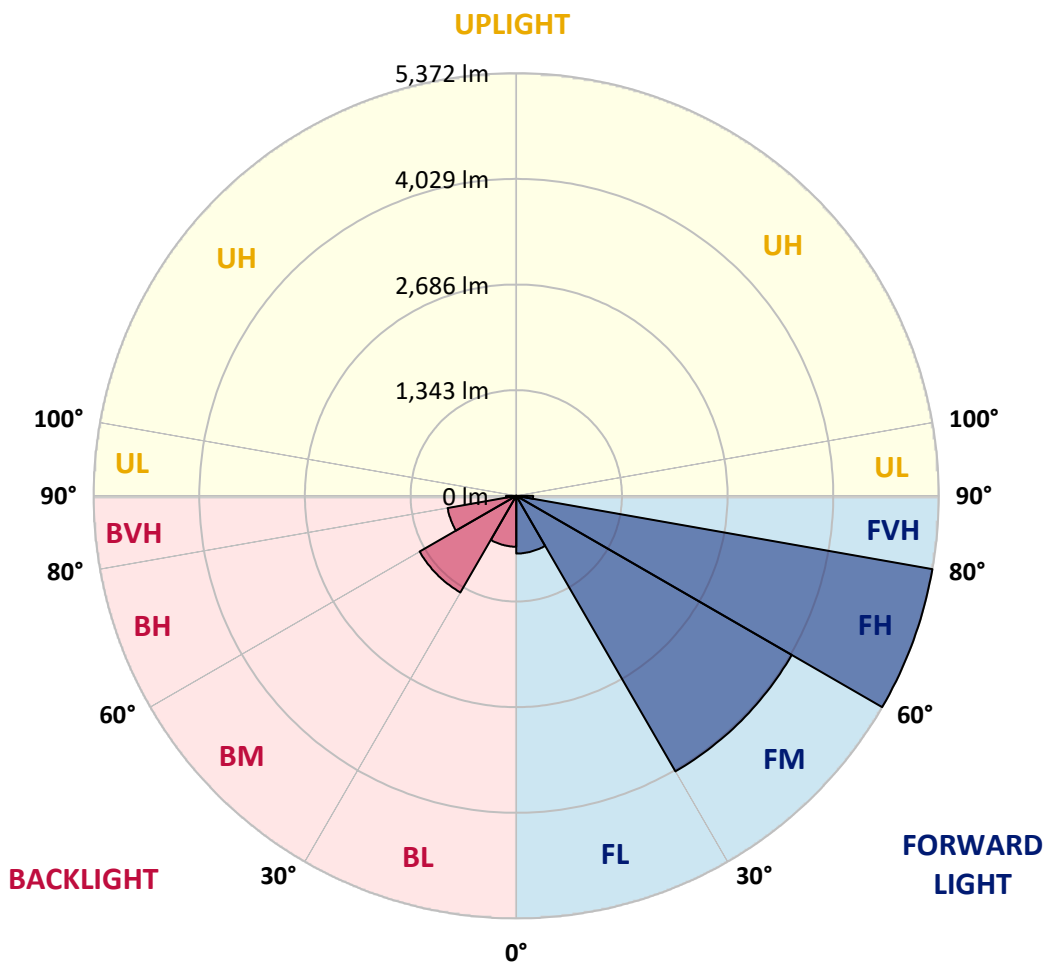


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	733.7	5.5			
FM (30°-60°)	4044.3	30.1			
FH (60°-80°)	5372.0	39.9			G3/7500
FVH (80°-90°)	215.0	1.6			G2/225
BL (0°-30°)	647.1	4.8	B2/1000		
BM (30°-60°)	1418.7	10.6	B2/2500		
BH (60°-80°)	886.0	6.6	B2/1000		G2/1000
BVH (80°-90°)	130.2	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°	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0
2.5°	1438.6	1439.5	1441.3	1436.7	1423.8	1420.1	1418.8	1405.4	1396.7	1383.8	1372.7
5°	1553.6	1554.5	1551.8	1538.9	1510.3	1489.2	1487.3	1457.0	1429.4	1399.9	1377.8
7.5°	1673.7	1675.1	1666.3	1642.0	1601.9	1565.1	1562.8	1521.4	1479.5	1434.9	1401.7
10°	1780.0	1774.5	1760.2	1726.2	1678.8	1633.7	1631.8	1588.6	1540.3	1486.4	1442.2
12.5°	1850.9	1846.3	1827.9	1786.5	1734.5	1693.0	1689.4	1649.3	1602.4	1543.5	1490.6
15°	1890.0	1893.2	1868.4	1821.4	1770.8	1735.8	1732.6	1704.1	1662.2	1602.8	1542.1
17.5°	1895.1	1897.8	1873.9	1827.4	1786.0	1762.1	1760.7	1741.8	1711.4	1654.4	1590.9
20°	1865.6	1867.5	1847.7	1809.5	1782.3	1775.0	1774.5	1766.2	1743.7	1693.0	1631.4
22.5°	1822.8	1824.2	1809.9	1782.3	1773.1	1784.6	1787.8	1784.6	1768.5	1721.1	1663.1
25°	1812.2	1811.3	1796.6	1768.5	1776.3	1800.7	1804.9	1806.2	1795.2	1753.8	1703.6
27.5°	1863.3	1860.1	1832.0	1786.9	1792.0	1821.4	1827.0	1840.3	1833.4	1797.0	1749.6
30°	2011.0	2005.5	1948.0	1856.9	1832.0	1847.2	1854.1	1875.3	1876.7	1846.3	1810.8
32.5°	2260.5	2253.6	2150.5	1987.6	1899.7	1873.4	1879.9	1911.6	1928.7	1905.2	1867.0
35°	2575.7	2567.9	2432.6	2209.8	2012.9	1923.6	1928.2	1953.5	1987.6	1954.4	1903.8
37.5°	2904.3	2885.4	2755.2	2471.2	2192.8	2030.8	2030.8	2034.0	2050.1	1981.1	1947.1
40°	3231.0	3212.1	3094.3	2778.6	2425.7	2199.7	2189.1	2117.8	2104.9	2045.5	2034.0
42.5°	3534.7	3529.2	3459.7	3126.1	2699.0	2365.8	2351.1	2230.1	2232.8	2196.0	2196.5
45°	3857.8	3857.8	3801.2	3476.7	3017.5	2632.7	2618.0	2439.9	2467.5	2450.5	2491.5
47.5°	4121.5	4129.7	4121.9	3842.1	3387.9	2971.9	2945.2	2730.8	2808.1	2866.5	2985.7
50°	4390.7	4403.6	4404.9	4243.0	3835.7	3375.0	3344.7	3116.9	3289.4	3456.9	3691.2
52.5°	4781.4	4810.4	4694.9	4642.9	4384.2	3853.6	3823.7	3613.4	3901.5	4136.6	4540.2
55°	5143.5	5118.2	5035.9	5068.1	4971.4	4398.5	4375.9	4191.4	4583.5	4889.1	5413.2
57.5°	5339.6	5337.7	5420.6	5558.6	5604.7	5070.4	5051.5	4872.0	5352.5	5582.1	6232.8
60°	5569.7	5572.9	5778.1	6091.5	6281.1	5907.0	5898.7	5762.5	6099.4	6229.1	6875.7
62.5°	5601.9	5659.9	6013.3	6552.6	6914.4	6884.4	6902.9	6564.6	6767.6	6745.5	7355.7
65°	5231.4	5307.8	5947.5	6692.1	7543.9	7953.5	7970.5	7371.3	7294.5	7186.8	7527.3
67.5°	4472.1	4585.3	5280.2	6388.8	7751.4	8743.6	8767.5	7996.7	7731.7	7336.4	7114.1
70°	3254.5	3380.1	4079.6	5456.5	7381.5	8996.3	9023.4	8273.3	7748.2	6910.7	6073.1
72.5°	1965.9	2064.4	2641.0	4017.0	6230.1	8536.1	8584.4	7922.6	7074.0	5853.6	4484.6
75°	863.3	927.7	1277.0	2314.8	4460.2	7062.5	7122.8	6781.4	5747.8	4254.0	2650.7
77.5°	367.7	386.1	523.7	1005.5	2521.4	4826.0	4908.8	4954.9	3899.7	2314.8	1120.1
80°	229.2	236.5	296.4	455.1	1179.9	2710.5	2799.8	2915.3	1936.5	850.9	391.2
82.5°	139.4	147.7	197.0	275.2	614.4	1228.7	1271.5	1353.0	751.5	367.7	202.5
85°	83.8	89.7	120.6	174.0	349.7	483.2	482.7	533.8	353.9	236.5	106.8
87.5°	40.0	44.6	64.4	90.2	176.3	181.3	169.8	192.4	214.9	155.1	53.8
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°	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0	1370.0
2.5°	1369.1	1367.2	1361.2	1356.6	1355.7	1353.0	1350.7	1352.0	1353.9	1354.3	1354.3
5°	1368.6	1363.5	1355.7	1352.5	1356.6	1362.2	1369.1	1378.3	1383.8	1387.9	1390.7
7.5°	1390.7	1381.0	1372.3	1370.4	1378.7	1393.5	1409.1	1428.4	1441.8	1451.0	1452.8
10°	1427.5	1415.5	1406.8	1408.6	1423.4	1444.5	1466.6	1491.5	1511.7	1524.1	1525.1
12.5°	1469.8	1458.3	1450.1	1457.9	1482.3	1508.0	1531.1	1552.7	1571.1	1583.5	1583.5
15°	1518.6	1510.3	1500.7	1518.6	1551.8	1574.8	1584.4	1595.0	1605.1	1614.3	1612.5
17.5°	1565.6	1557.7	1552.7	1573.9	1608.4	1618.9	1612.5	1604.7	1604.7	1609.7	1610.7
20°	1606.1	1599.2	1602.4	1623.1	1641.0	1630.0	1606.1	1581.2	1571.1	1573.9	1576.6
22.5°	1641.5	1638.3	1647.9	1657.6	1644.7	1606.1	1561.9	1528.3	1515.9	1514.9	1515.9
25°	1682.9	1682.5	1694.4	1676.9	1619.9	1548.5	1489.2	1456.5	1449.6	1455.1	1464.3
27.5°	1734.5	1739.5	1745.5	1681.5	1569.2	1461.6	1401.3	1378.7	1385.6	1399.0	1407.7
30°	1800.3	1814.1	1801.2	1670.0	1496.5	1362.2	1304.6	1298.2	1317.1	1335.9	1345.1
32.5°	1864.2	1885.9	1854.6	1640.1	1402.7	1256.8	1212.1	1210.3	1233.3	1251.7	1264.6
35°	1915.8	1958.6	1894.6	1580.8	1294.1	1159.7	1127.0	1114.6	1122.9	1144.5	1159.2
37.5°	1983.0	2054.3	1922.2	1490.1	1176.2	1079.6	1041.4	1012.9	1005.5	1014.3	1021.6
40°	2105.8	2200.2	1935.1	1363.5	1061.2	999.5	960.9	919.0	890.0	868.8	869.3
42.5°	2306.5	2390.2	1926.8	1209.8	954.9	921.3	877.6	829.3	782.3	734.5	730.8
45°	2632.3	2672.8	1902.0	1046.9	861.5	839.4	798.4	750.1	687.5	633.2	628.2
47.5°	3153.7	3063.9	1863.3	904.7	779.1	769.9	732.2	676.5	610.2	566.5	562.8
50°	3864.7	3628.6	1844.4	791.5	706.4	709.2	678.3	619.4	556.8	524.6	520.9
52.5°	4715.1	4286.2	1880.8	704.1	647.9	657.6	634.6	579.4	526.9	501.6	497.9
55°	5597.3	4967.3	1919.9	640.6	592.7	611.6	603.8	558.2	510.8	487.3	484.1
57.5°	6352.5	5475.8	1841.7	589.0	543.5	572.9	579.8	544.9	502.5	481.4	477.7
60°	6827.8	5680.6	1636.4	540.7	504.4	542.1	566.0	541.2	505.7	503.9	501.1
62.5°	7053.3	5662.6	1328.6	502.5	480.0	528.8	576.2	561.9	542.6	559.1	560.5
65°	6952.1	5392.0	989.4	477.2	462.5	533.8	606.5	601.0	553.1	569.7	572.0
67.5°	6285.7	4746.4	732.6	455.1	443.2	548.1	661.8	613.9	532.4	544.4	537.0
70°	5080.5	3763.0	565.1	430.3	423.4	546.2	686.6	606.1	509.9	512.7	492.9
72.5°	3503.4	2566.0	459.7	407.3	394.8	497.9	669.1	586.7	491.0	469.9	443.6
75°	1905.2	1377.3	390.7	383.3	344.7	437.2	636.9	572.9	474.0	445.9	431.2
77.5°	749.6	571.6	339.2	350.7	301.4	386.1	601.0	546.7	450.5	413.7	406.3
80°	306.0	291.8	281.2	303.3	259.1	337.8	557.8	515.9	422.5	383.8	369.1
82.5°	173.5	181.3	218.6	239.3	210.3	311.1	537.0	491.0	388.9	343.8	326.3
85°	88.8	106.3	152.3	171.7	154.6	264.6	494.7	429.8	312.0	263.2	264.6
87.5°	42.8	59.4	96.2	107.7	100.3	191.4	369.5	311.5	243.0	192.4	186.4
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)