

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: P387077

Luminaire Tested: GAW-SA2D-735-U-T4W

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P387077  
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-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3500K, 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: 15105.4 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

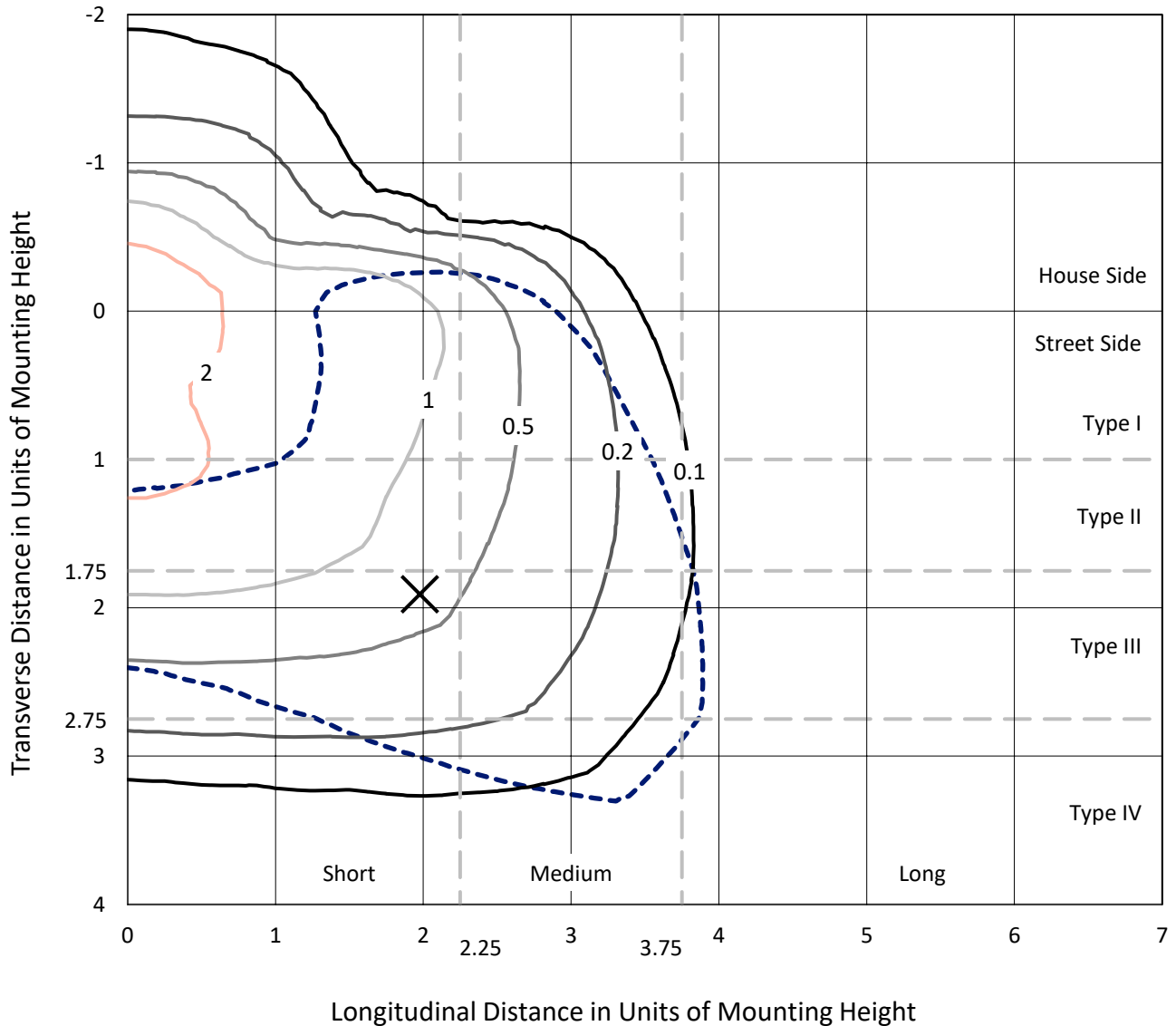
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

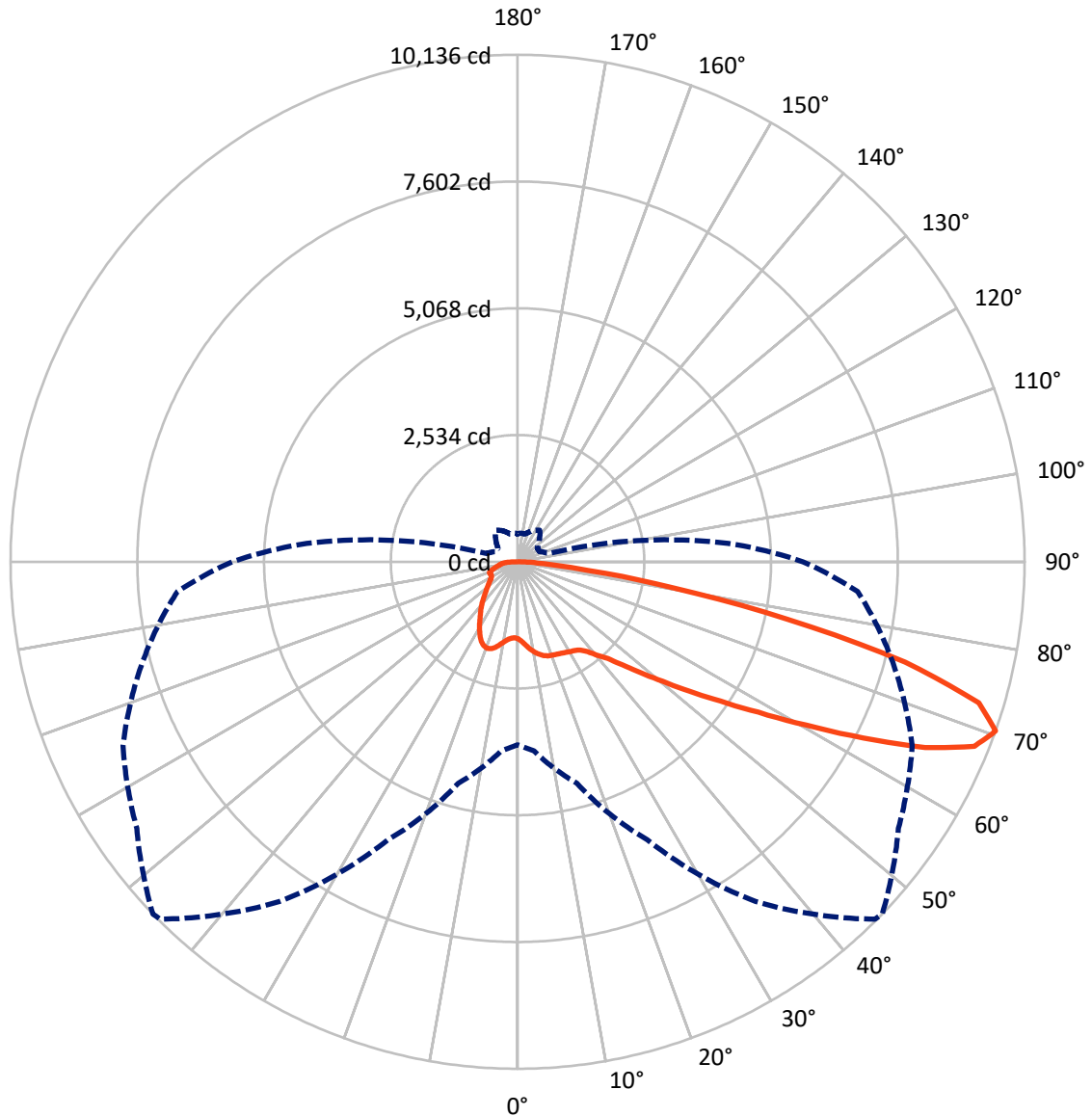
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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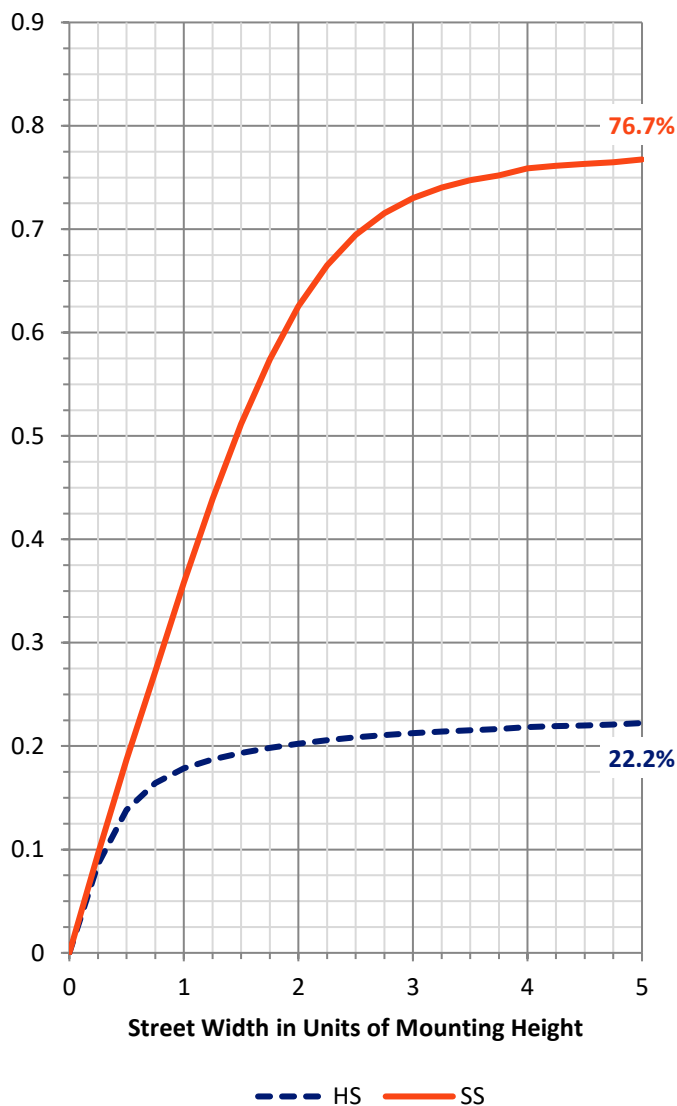
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3462.1	0.0	3462.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	11643.3	0.0	11643.3
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	15105.4	0.0	15105.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	1.0
10°-20°	522.7	3.5
20°-30°	871.5	5.8
30°-40°	1236.8	8.2
40°-50°	1819.2	12.0
50°-60°	3080.8	20.4
60°-70°	4373.1	29.0
70°-80°	2656.7	17.6
80°-90°	387.7	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°	15105.4	100.0
0°-180°	15105.4	100.0

**Coefficient of Utilization**



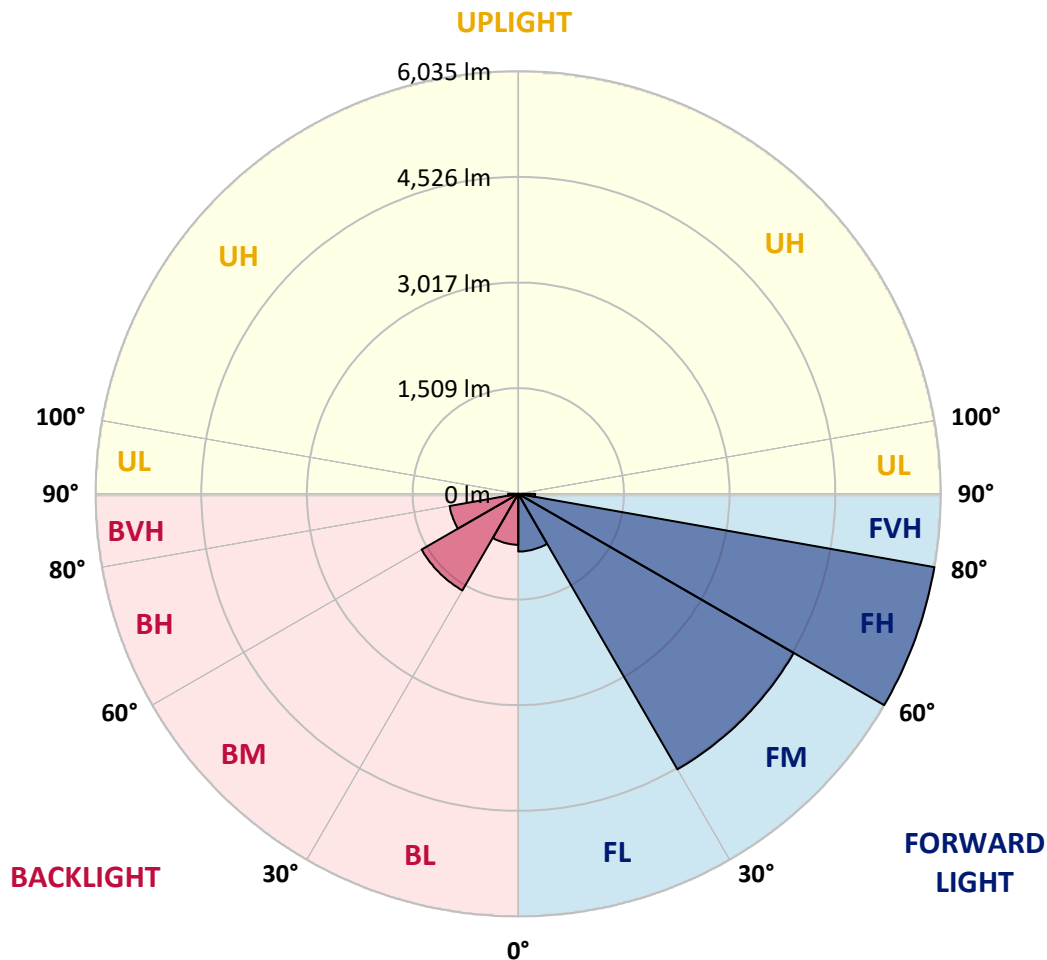
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	824.2	5.5			
FM (30°-60°)	4543.0	30.1			
FH (60°-80°)	6034.5	39.9			G3/7500
FVH (80°-90°)	241.5	1.6			G3/500
BL (0°-30°)	726.9	4.8	B2/1000		
BM (30°-60°)	1593.7	10.6	B2/2500		
BH (60°-80°)	995.3	6.6	B2/1000		G2/1000
BVH (80°-90°)	146.2	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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1615.9	1617.0	1619.0	1613.9	1599.4	1595.3	1593.8	1578.7	1569.0	1554.4	1542.0
5°	1745.2	1746.2	1743.1	1728.7	1696.6	1672.9	1670.8	1636.6	1605.6	1572.5	1547.7
7.5°	1880.1	1881.7	1871.8	1844.5	1799.5	1758.2	1755.5	1709.0	1662.0	1611.8	1574.6
10°	1999.6	1993.3	1977.3	1939.1	1885.8	1835.2	1833.1	1784.5	1730.2	1669.8	1620.1
12.5°	2079.2	2074.0	2053.3	2006.8	1948.4	1901.8	1897.7	1852.8	1800.0	1733.8	1674.4
15°	2123.1	2126.7	2098.8	2046.1	1989.2	1949.9	1946.3	1914.3	1867.2	1800.5	1732.2
17.5°	2128.8	2131.9	2105.0	2052.8	2006.3	1979.4	1977.8	1956.7	1922.6	1858.4	1787.1
20°	2095.7	2097.8	2075.5	2032.7	2002.1	1993.9	1993.3	1984.0	1958.7	1901.8	1832.6
22.5°	2047.6	2049.2	2033.1	2002.1	1991.8	2004.8	2008.3	2004.8	1986.6	1933.4	1868.3
25°	2035.8	2034.7	2018.2	1986.6	1995.5	2022.8	2027.5	2029.0	2016.6	1970.1	1913.7
27.5°	2093.2	2089.5	2057.9	2007.3	2013.0	2046.1	2052.3	2067.2	2059.5	2018.7	1965.4
30°	2259.1	2252.9	2188.2	2085.9	2057.9	2075.0	2082.8	2106.6	2108.1	2074.0	2034.2
32.5°	2539.3	2531.5	2415.7	2232.7	2133.9	2104.5	2111.8	2147.4	2166.5	2140.1	2097.3
35°	2893.3	2884.6	2732.6	2482.3	2261.1	2160.8	2166.0	2194.4	2232.7	2195.5	2138.6
37.5°	3262.4	3241.3	3094.9	2776.0	2463.3	2281.3	2281.3	2284.9	2303.0	2225.4	2187.2
40°	3629.4	3608.3	3475.9	3121.3	2724.8	2471.0	2459.1	2379.0	2364.5	2297.9	2284.9
42.5°	3970.6	3964.4	3886.4	3511.6	3031.9	2657.6	2641.1	2505.1	2508.2	2466.8	2467.4
45°	4333.5	4333.5	4270.0	3905.5	3389.6	2957.5	2940.9	2740.9	2771.9	2752.7	2798.7
47.5°	4629.8	4639.1	4630.3	4316.0	3805.8	3338.4	3308.5	3067.6	3154.4	3220.1	3353.9
50°	4932.2	4946.7	4948.3	4766.2	4308.7	3791.3	3757.2	3501.3	3695.1	3883.3	4146.4
52.5°	5371.1	5403.7	5273.9	5215.5	4925.0	4328.9	4295.3	4059.0	4382.6	4646.8	5100.2
55°	5777.9	5749.5	5656.9	5693.1	5584.6	4940.9	4915.7	4708.3	5148.8	5492.1	6080.9
57.5°	5998.1	5996.1	6089.2	6244.2	6295.9	5695.7	5674.5	5472.9	6012.6	6270.5	7001.5
60°	6256.6	6260.2	6490.7	6842.8	7055.8	6635.5	6626.2	6473.2	6851.7	6997.4	7723.7
62.5°	6292.8	6357.9	6754.9	7360.8	7767.1	7733.6	7754.2	7374.2	7602.2	7577.4	8262.9
65°	5876.7	5962.4	6681.1	7517.4	8474.3	8934.4	8953.6	8280.5	8194.1	8073.2	8455.7
67.5°	5023.7	5150.9	5931.4	7176.8	8707.4	9822.0	9848.9	8983.0	8685.3	8241.2	7991.5
70°	3655.8	3796.9	4582.7	6129.5	8291.8	10105.8	10136.2	9293.7	8703.9	7763.0	6822.2
72.5°	2208.4	2319.0	2966.8	4512.5	6998.4	9588.9	9643.2	8899.7	7946.5	6575.6	5037.7
75°	969.8	1042.2	1434.5	2600.2	5010.3	7933.6	8001.3	7617.7	6456.6	4778.7	2977.6
77.5°	413.1	433.7	588.2	1129.5	2832.4	5421.2	5514.2	5566.0	4380.6	2600.2	1258.2
80°	257.4	265.8	332.9	511.2	1325.5	3044.9	3145.1	3274.8	2175.4	955.8	439.4
82.5°	156.6	165.9	221.2	309.2	690.1	1380.3	1428.3	1519.8	844.1	413.1	227.4
85°	94.1	100.8	135.5	195.4	392.9	542.8	542.3	599.6	397.6	265.8	120.0
87.5°	45.0	50.2	72.3	101.4	198.0	203.7	190.8	216.1	241.4	174.3	60.5
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°	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9	1538.9
2.5°	1537.9	1535.8	1529.1	1524.0	1522.9	1519.8	1517.2	1518.8	1520.9	1521.3	1521.3
5°	1537.4	1531.7	1522.9	1519.3	1524.0	1530.2	1537.9	1548.2	1554.4	1559.1	1562.2
7.5°	1562.2	1551.3	1541.5	1539.5	1548.8	1565.3	1582.9	1604.6	1619.6	1629.9	1632.0
10°	1603.5	1590.1	1580.3	1582.4	1598.9	1622.7	1647.5	1675.4	1698.1	1712.1	1713.2
12.5°	1651.2	1638.2	1628.9	1637.6	1665.1	1694.0	1719.8	1744.2	1764.8	1778.8	1778.8
15°	1705.9	1696.6	1685.7	1705.9	1743.1	1769.0	1779.9	1791.7	1803.1	1813.4	1811.3
17.5°	1758.6	1749.9	1744.2	1767.9	1806.7	1818.6	1811.3	1802.6	1802.6	1808.2	1809.3
20°	1804.1	1796.4	1800.0	1823.3	1843.5	1831.1	1804.1	1776.2	1764.8	1767.9	1771.0
22.5°	1843.9	1840.4	1851.2	1862.1	1847.6	1804.1	1754.5	1716.7	1702.8	1701.8	1702.8
25°	1890.4	1890.0	1903.4	1883.8	1819.6	1739.6	1672.9	1636.1	1628.3	1634.5	1644.9
27.5°	1948.4	1954.0	1960.8	1888.9	1762.8	1641.8	1574.1	1548.8	1556.5	1571.5	1581.4
30°	2022.3	2037.8	2023.4	1876.0	1681.1	1530.2	1465.5	1458.3	1479.5	1500.7	1511.0
32.5°	2094.2	2118.4	2083.3	1842.4	1575.6	1411.8	1361.7	1359.6	1385.4	1406.1	1420.6
35°	2152.1	2200.2	2128.3	1775.7	1453.6	1302.8	1266.0	1252.0	1261.3	1285.7	1302.2
37.5°	2227.5	2307.6	2159.3	1673.9	1321.4	1212.8	1169.8	1137.8	1129.5	1139.4	1147.7
40°	2365.6	2471.5	2173.8	1531.7	1192.1	1122.8	1079.4	1032.3	999.8	976.0	976.5
42.5°	2590.9	2685.0	2164.5	1359.0	1072.7	1034.9	985.8	931.5	878.8	825.1	820.9
45°	2956.9	3002.4	2136.6	1176.0	967.8	942.9	896.9	842.6	772.3	711.3	705.7
47.5°	3542.6	3441.8	2093.2	1016.3	875.2	864.8	822.4	759.9	685.5	636.3	632.2
50°	4341.3	4076.1	2071.9	889.1	793.5	796.6	761.9	695.8	625.5	589.3	585.1
52.5°	5296.7	4814.9	2112.8	791.0	727.8	738.7	712.9	650.8	591.9	563.4	559.3
55°	6287.6	5579.9	2156.7	719.6	665.8	687.0	678.2	627.0	573.8	547.5	543.8
57.5°	7135.9	6151.2	2068.8	661.7	610.5	643.6	651.4	612.1	564.5	540.7	536.6
60°	7670.0	6381.2	1838.3	607.4	566.5	609.0	635.9	608.0	568.1	566.1	563.0
62.5°	7923.2	6361.0	1492.4	564.5	539.2	594.0	647.2	631.2	609.5	628.1	629.7
65°	7809.6	6057.0	1111.4	536.1	519.5	599.6	681.3	675.1	621.4	640.0	642.5
67.5°	7061.0	5331.8	823.0	511.2	497.8	615.7	743.3	689.6	598.1	611.5	603.3
70°	5707.1	4227.1	634.8	483.3	475.6	613.6	771.2	680.8	572.7	575.8	553.7
72.5°	3935.5	2882.5	516.4	457.5	443.6	559.3	751.6	659.1	551.6	527.8	498.3
75°	2140.1	1547.2	438.9	430.6	387.2	491.1	715.4	643.6	532.4	500.9	484.4
77.5°	842.1	642.1	381.0	393.9	338.6	433.7	675.1	614.2	506.1	464.7	456.5
80°	343.7	327.8	315.8	340.6	291.0	379.4	626.6	579.5	474.6	431.1	414.6
82.5°	194.9	203.7	245.6	268.9	236.3	349.5	603.3	551.6	436.8	386.2	366.6
85°	99.8	119.4	171.1	192.9	173.7	297.2	555.7	482.8	350.5	295.7	297.2
87.5°	48.1	66.7	108.0	121.0	112.7	215.0	415.1	350.0	273.0	216.1	209.4
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)