

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: P387105

Luminaire Tested: GAW-SA2D-750-U-T4W

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387105
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-750-U-T4W
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 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: 16079 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

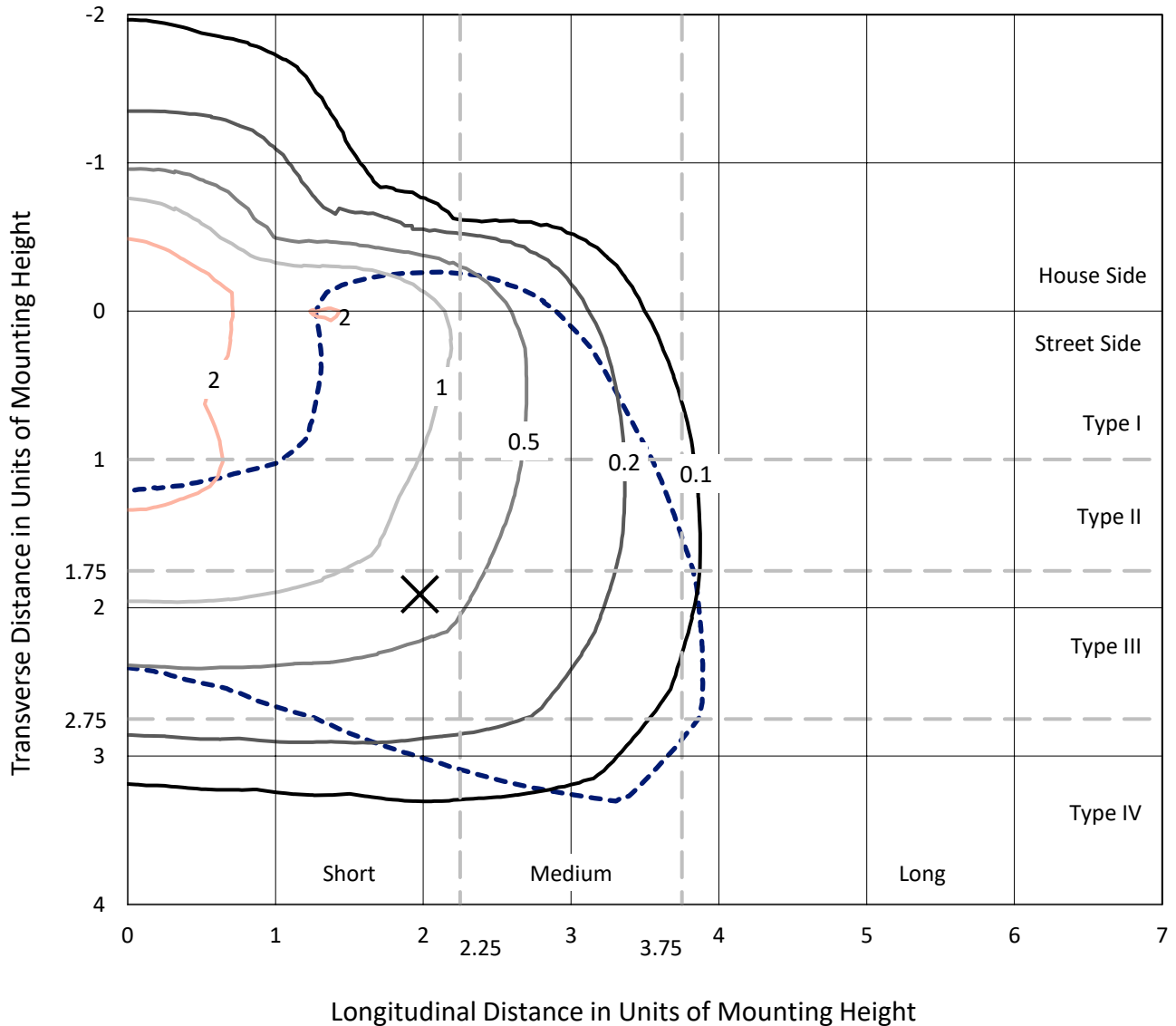
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

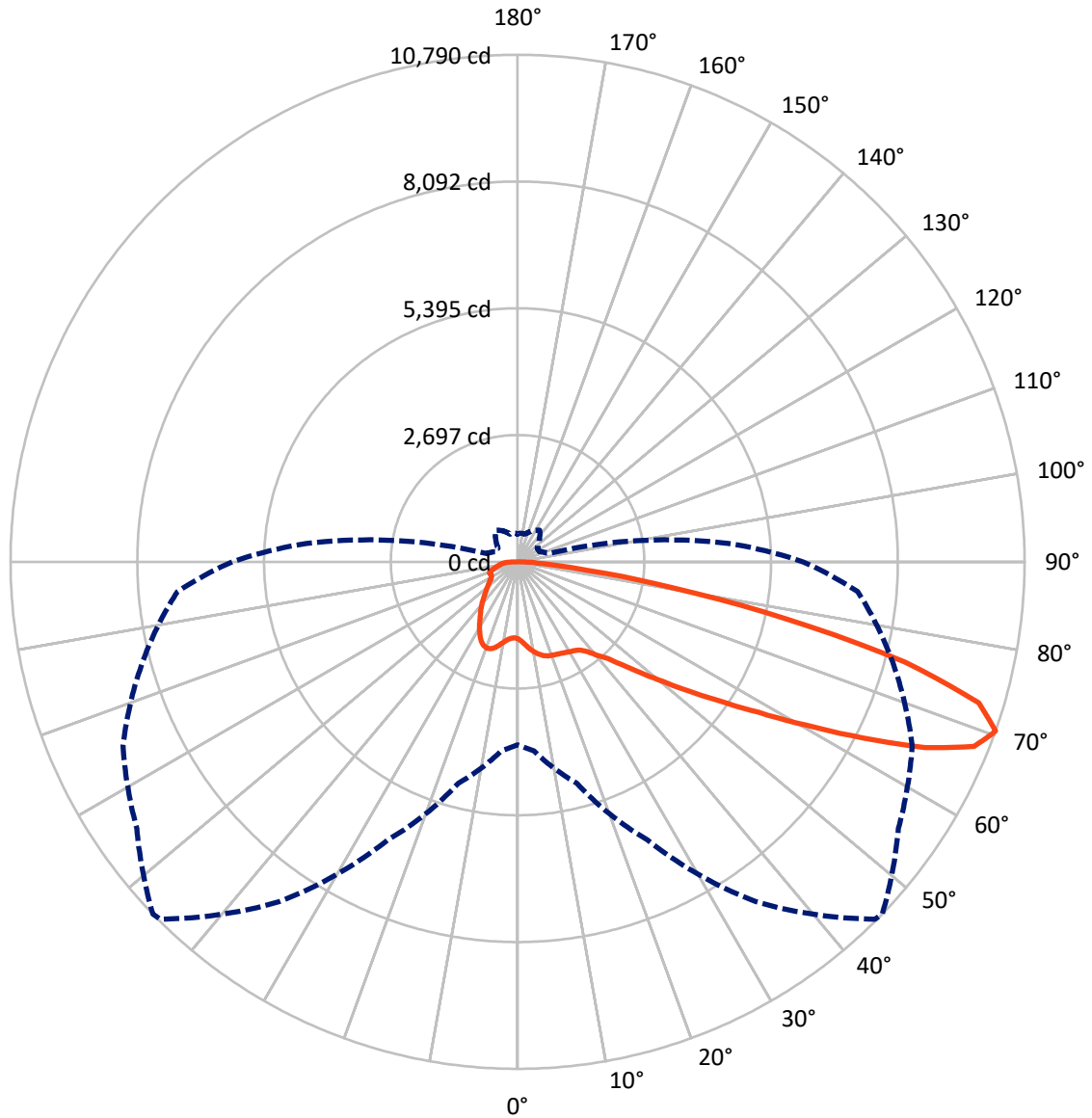
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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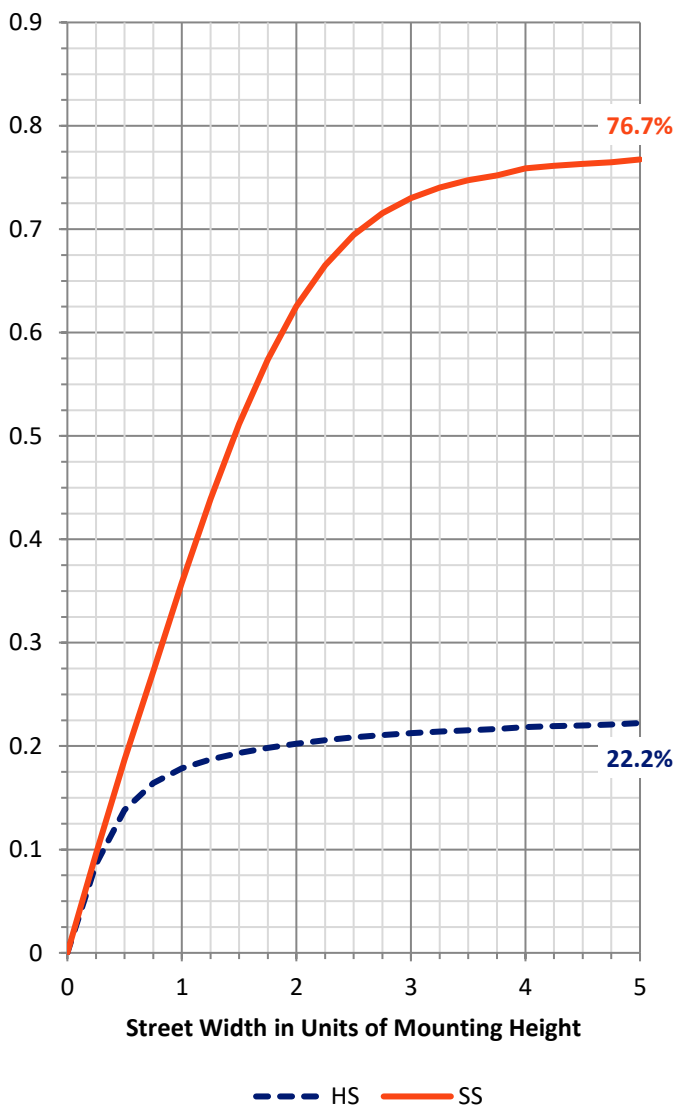
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3685.3	0.0	3685.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	12393.7	0.0	12393.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	16079.0	0.0	16079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.0	1.0
10°-20°	556.4	3.5
20°-30°	927.7	5.8
30°-40°	1316.5	8.2
40°-50°	1936.4	12.0
50°-60°	3279.4	20.4
60°-70°	4655.0	29.0
70°-80°	2828.0	17.6
80°-90°	412.7	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°	16079.0	100.0
0°-180°	16079.0	100.0

Coefficient of Utilization



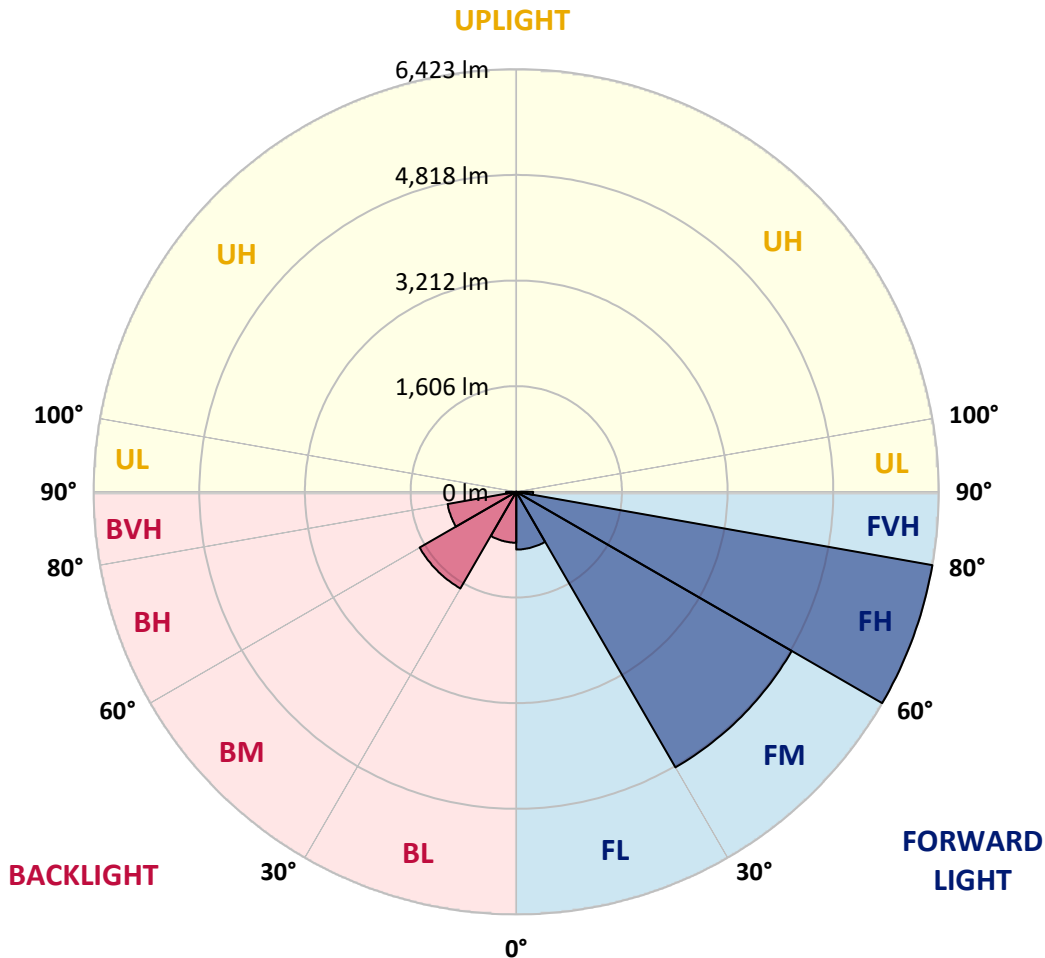
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.3	5.5			
FM (30°-60°)	4835.8	30.1			
FH (60°-80°)	6423.5	39.9			G3/7500
FVH (80°-90°)	257.1	1.6			G3/500
BL (0°-30°)	773.7	4.8	B2/1000		
BM (30°-60°)	1696.4	10.6	B2/2500		
BH (60°-80°)	1059.5	6.6	B3/2500		G3/2500
BVH (80°-90°)	155.6	1.0			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1720.1	1721.2	1723.4	1717.9	1702.5	1698.1	1696.5	1680.5	1670.1	1654.6	1641.4
5°	1857.7	1858.8	1855.5	1840.1	1806.0	1780.7	1778.5	1742.1	1709.1	1673.9	1647.5
7.5°	2001.3	2003.0	1992.5	1963.3	1915.5	1871.4	1868.7	1819.2	1769.1	1715.7	1676.1
10°	2128.4	2121.8	2104.8	2064.0	2007.4	1953.4	1951.2	1899.5	1841.7	1777.4	1724.5
12.5°	2213.2	2207.7	2185.6	2136.1	2073.9	2024.4	2020.0	1972.1	1916.0	1845.6	1782.3
15°	2259.9	2263.8	2234.1	2177.9	2117.4	2075.6	2071.7	2037.6	1987.6	1916.6	1843.9
17.5°	2266.0	2269.3	2240.7	2185.1	2135.6	2107.0	2105.3	2082.7	2046.4	1978.2	1902.3
20°	2230.8	2233.0	2209.3	2163.6	2131.2	2122.4	2121.8	2111.9	2084.9	2024.4	1950.7
22.5°	2179.6	2181.2	2164.2	2131.2	2120.2	2133.9	2137.8	2133.9	2114.7	2058.0	1988.7
25°	2166.9	2165.8	2148.2	2114.7	2124.0	2153.2	2158.1	2159.8	2146.6	2097.1	2037.1
27.5°	2228.0	2224.2	2190.6	2136.7	2142.7	2177.9	2184.5	2200.5	2192.3	2148.8	2092.1
30°	2404.7	2398.0	2329.3	2220.3	2190.6	2208.8	2217.0	2242.3	2244.0	2207.7	2165.3
32.5°	2702.9	2694.6	2571.4	2376.6	2271.5	2240.1	2247.8	2285.8	2306.2	2278.1	2232.4
35°	3079.8	3070.5	2908.7	2642.4	2406.9	2300.1	2305.6	2335.9	2376.6	2337.0	2276.4
37.5°	3472.7	3450.2	3294.4	2954.9	2622.0	2428.3	2428.3	2432.2	2451.4	2368.9	2328.2
40°	3863.4	3840.8	3700.0	3322.5	2900.4	2630.3	2617.6	2532.3	2516.9	2445.9	2432.2
42.5°	4226.6	4220.0	4136.9	3737.9	3227.3	2828.9	2811.3	2666.6	2669.9	2625.9	2626.4
45°	4612.9	4612.9	4545.2	4157.2	3608.1	3148.1	3130.5	2917.5	2950.5	2930.2	2979.1
47.5°	4928.2	4938.1	4928.7	4594.2	4051.0	3553.6	3521.7	3265.3	3357.7	3427.6	3570.1
50°	5250.1	5265.5	5267.1	5073.4	4586.4	4035.6	3999.3	3726.9	3933.3	4133.6	4413.7
52.5°	5717.2	5751.9	5613.8	5551.6	5242.4	4607.9	4572.1	4320.7	4665.1	4946.3	5428.9
55°	6150.3	6120.0	6021.5	6060.1	5944.5	5259.4	5232.5	5011.8	5480.6	5846.0	6472.8
57.5°	6384.7	6382.5	6481.6	6646.6	6701.7	6062.8	6040.2	5825.6	6400.1	6674.7	7452.8
60°	6659.8	6663.7	6909.1	7283.8	7510.6	7063.2	7053.3	6890.4	7293.2	7448.4	8221.5
62.5°	6698.4	6767.7	7190.3	7835.2	8267.7	8231.9	8254.0	7849.5	8092.2	8065.8	8795.4
65°	6255.4	6346.7	7111.6	8001.9	9020.5	9510.2	9530.6	8814.1	8722.2	8593.5	9000.7
67.5°	5347.5	5482.8	6313.7	7639.3	9268.6	10455.0	10483.6	9561.9	9245.0	8772.3	8506.5
70°	3891.5	4041.7	4878.1	6524.5	8826.2	10757.1	10789.6	9892.6	9264.8	8263.3	7261.8
72.5°	2350.7	2468.5	3158.0	4803.3	7449.5	10206.8	10264.6	9473.3	8458.7	6999.4	5362.3
75°	1032.3	1109.3	1527.0	2767.8	5333.2	8444.9	8517.0	8108.7	6872.8	5086.6	3169.5
77.5°	439.7	461.7	626.2	1202.3	3014.9	5770.6	5869.7	5924.7	4662.9	2767.8	1339.3
80°	274.0	282.8	354.4	544.2	1410.9	3241.1	3347.8	3485.9	2315.5	1017.4	467.7
82.5°	166.7	176.6	235.5	329.1	734.6	1469.2	1520.4	1617.8	898.6	439.7	242.1
85°	100.1	107.3	144.2	208.0	418.2	577.8	577.2	638.3	423.2	282.8	127.7
87.5°	47.9	53.4	77.0	107.9	210.8	216.8	203.0	230.0	257.0	185.4	64.4
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°	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1637.0	1634.8	1627.7	1622.2	1621.1	1617.8	1615.0	1616.7	1618.9	1619.4	1619.4
5°	1636.5	1630.4	1621.1	1617.2	1622.2	1628.8	1637.0	1648.0	1654.6	1659.6	1662.9
7.5°	1662.9	1651.3	1640.9	1638.7	1648.6	1666.2	1684.9	1708.0	1724.0	1735.0	1737.2
10°	1706.9	1692.6	1682.2	1684.4	1702.0	1727.3	1753.7	1783.4	1807.6	1822.5	1823.6
12.5°	1757.5	1743.8	1733.9	1743.2	1772.4	1803.2	1830.7	1856.6	1878.6	1893.5	1893.5
15°	1815.9	1806.0	1794.4	1815.9	1855.5	1883.0	1894.6	1907.2	1919.3	1930.3	1928.1
17.5°	1872.0	1862.6	1856.6	1881.9	1923.2	1935.8	1928.1	1918.8	1918.8	1924.8	1925.9
20°	1920.4	1912.2	1916.0	1940.8	1962.2	1949.0	1920.4	1890.7	1878.6	1881.9	1885.2
22.5°	1962.8	1958.9	1970.5	1982.1	1966.6	1920.4	1867.6	1827.4	1812.6	1811.5	1812.6
25°	2012.3	2011.8	2026.1	2005.2	1936.9	1851.6	1780.7	1741.6	1733.3	1739.9	1750.9
27.5°	2073.9	2080.0	2087.2	2010.7	1876.4	1747.6	1675.6	1648.6	1656.8	1672.8	1683.3
30°	2152.6	2169.1	2153.7	1996.9	1789.5	1628.8	1560.0	1552.3	1574.9	1597.4	1608.4
32.5°	2229.1	2255.0	2217.6	1961.1	1677.2	1502.8	1449.4	1447.2	1474.7	1496.7	1512.1
35°	2290.7	2341.9	2265.4	1890.2	1547.3	1386.7	1347.6	1332.7	1342.6	1368.5	1386.1
37.5°	2371.1	2456.4	2298.5	1781.8	1406.5	1290.9	1245.2	1211.1	1202.3	1212.8	1221.6
40°	2518.0	2630.8	2313.9	1630.4	1268.9	1195.2	1149.0	1098.9	1064.2	1038.9	1039.4
42.5°	2757.9	2858.1	2304.0	1446.6	1141.8	1101.6	1049.4	991.6	935.4	878.2	873.8
45°	3147.5	3195.9	2274.2	1251.9	1030.1	1003.7	954.7	896.9	822.1	757.2	751.1
47.5°	3771.0	3663.7	2228.0	1081.8	931.6	920.6	875.5	808.9	729.6	677.4	673.0
50°	4621.1	4338.8	2205.5	946.5	844.7	848.0	811.1	740.7	665.8	627.3	622.9
52.5°	5638.0	5125.2	2248.9	841.9	774.8	786.3	758.8	692.8	630.1	599.8	595.4
55°	6692.9	5939.5	2295.7	766.0	708.7	731.3	721.9	667.5	610.8	582.7	578.9
57.5°	7595.8	6547.6	2202.2	704.3	649.9	685.1	693.3	651.5	600.9	575.6	571.2
60°	8164.3	6792.5	1956.7	646.6	603.1	648.2	676.8	647.1	604.7	602.5	599.2
62.5°	8433.9	6771.0	1588.6	600.9	573.9	632.3	688.9	671.9	648.8	668.6	670.2
65°	8312.8	6447.4	1183.1	570.6	553.0	638.3	725.2	718.6	661.4	681.2	684.0
67.5°	7516.1	5675.4	876.0	544.2	529.9	655.4	791.3	734.1	636.7	651.0	642.2
70°	6074.9	4499.5	675.7	514.5	506.2	653.2	821.0	724.7	609.7	613.0	589.3
72.5°	4189.2	3068.3	549.7	487.0	472.1	595.4	800.1	701.6	587.1	561.8	530.5
75°	2278.1	1646.9	467.2	458.4	412.1	522.8	761.6	685.1	566.8	533.2	515.6
77.5°	896.4	683.4	405.5	419.3	360.4	461.7	718.6	653.7	538.7	494.7	485.9
80°	365.9	348.9	336.2	362.6	309.8	403.9	666.9	616.8	505.1	458.9	441.3
82.5°	207.4	216.8	261.4	286.1	251.5	372.0	642.2	587.1	465.0	411.0	390.1
85°	106.2	127.1	182.1	205.2	184.9	316.4	591.5	513.9	373.1	314.8	316.4
87.5°	51.2	71.0	115.0	128.8	120.0	228.9	441.9	372.5	290.5	230.0	222.9
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)