

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: P387015

Luminaire Tested: GAW-SA2D-727-U-T3

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387015
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-727-U-T3
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13544 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

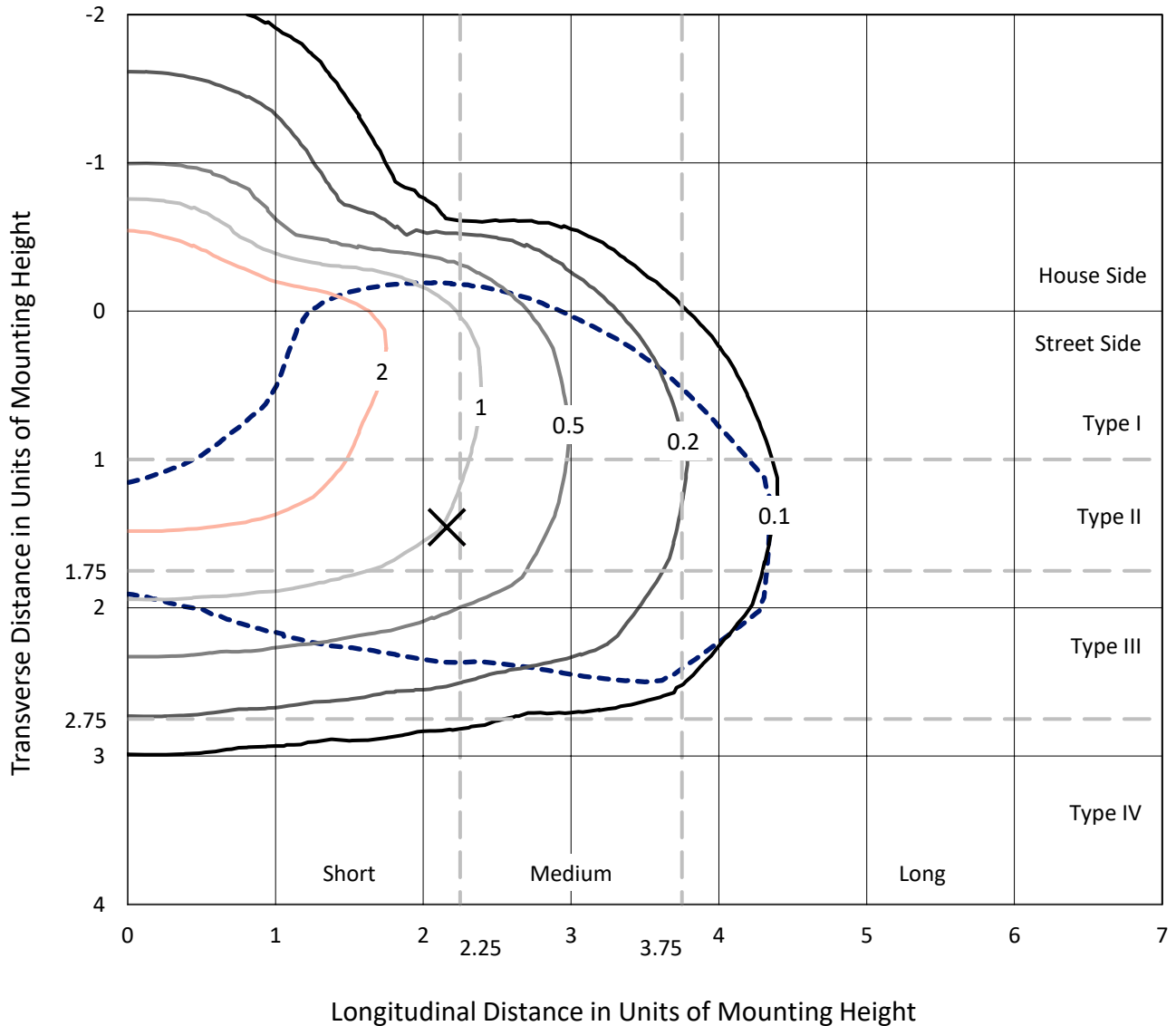
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

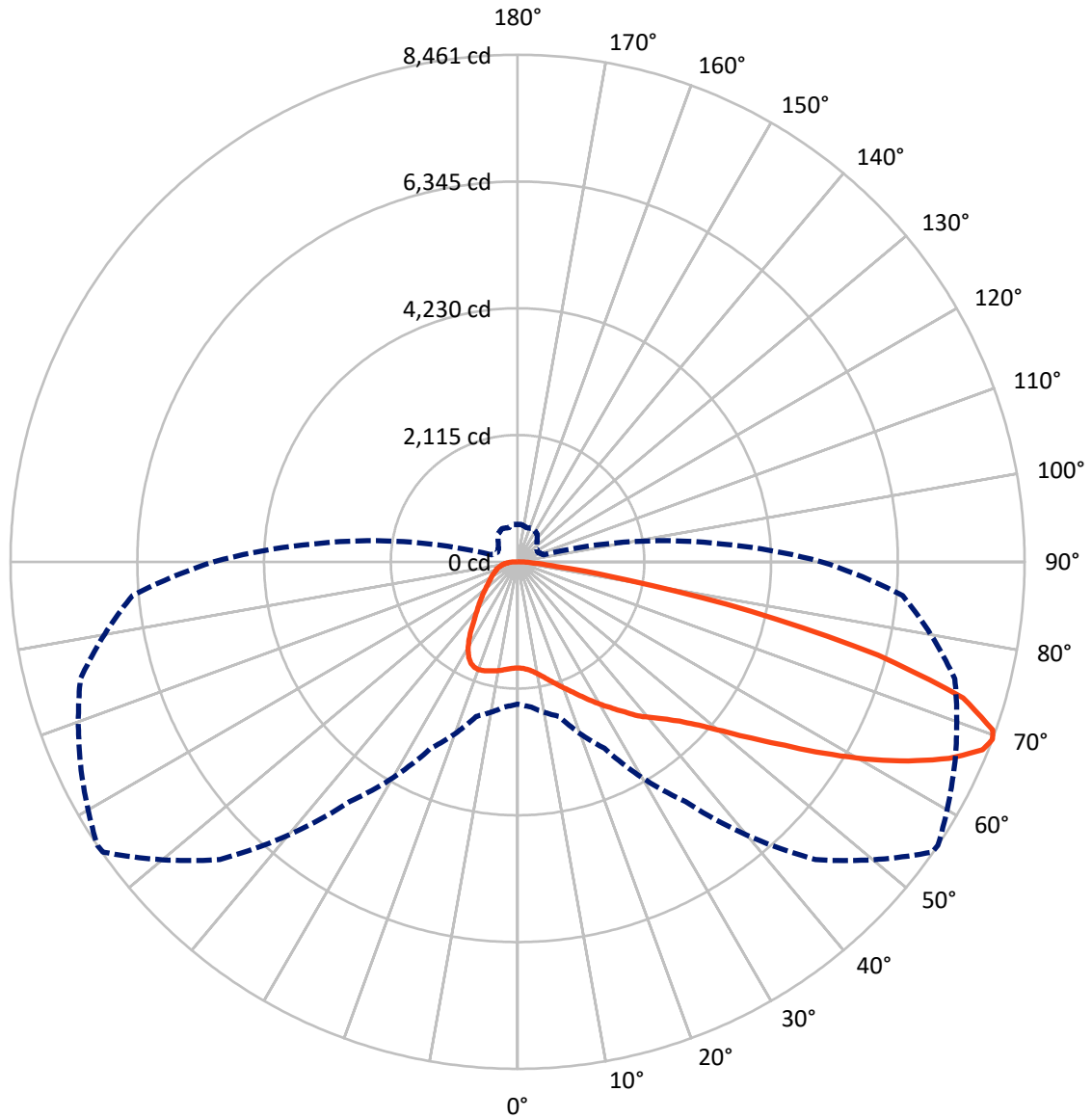
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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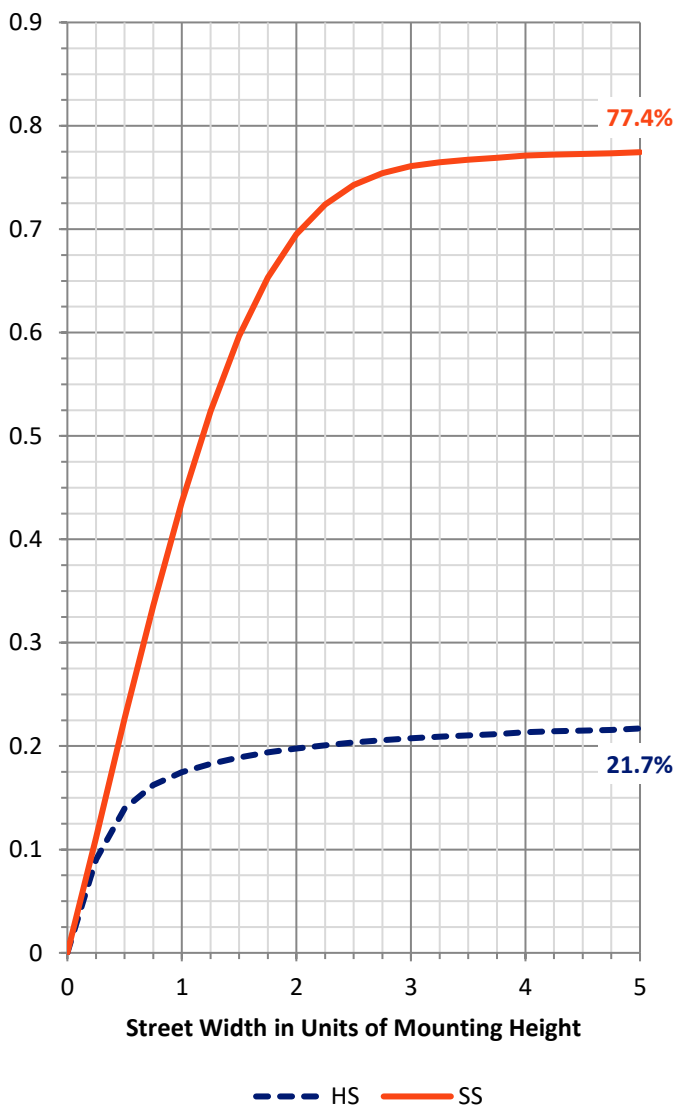
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.2	0.0	3016.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	10527.8	0.0	10527.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	13544.0	0.0	13544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.3
10°-20°	559.2	4.1
20°-30°	976.2	7.2
30°-40°	1402.3	10.4
40°-50°	1940.6	14.3
50°-60°	2843.3	21.0
60°-70°	3466.5	25.6
70°-80°	1916.5	14.2
80°-90°	265.4	2.0
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°	13544.0	100.0
0°-180°	13544.0	100.0

Coefficient of Utilization



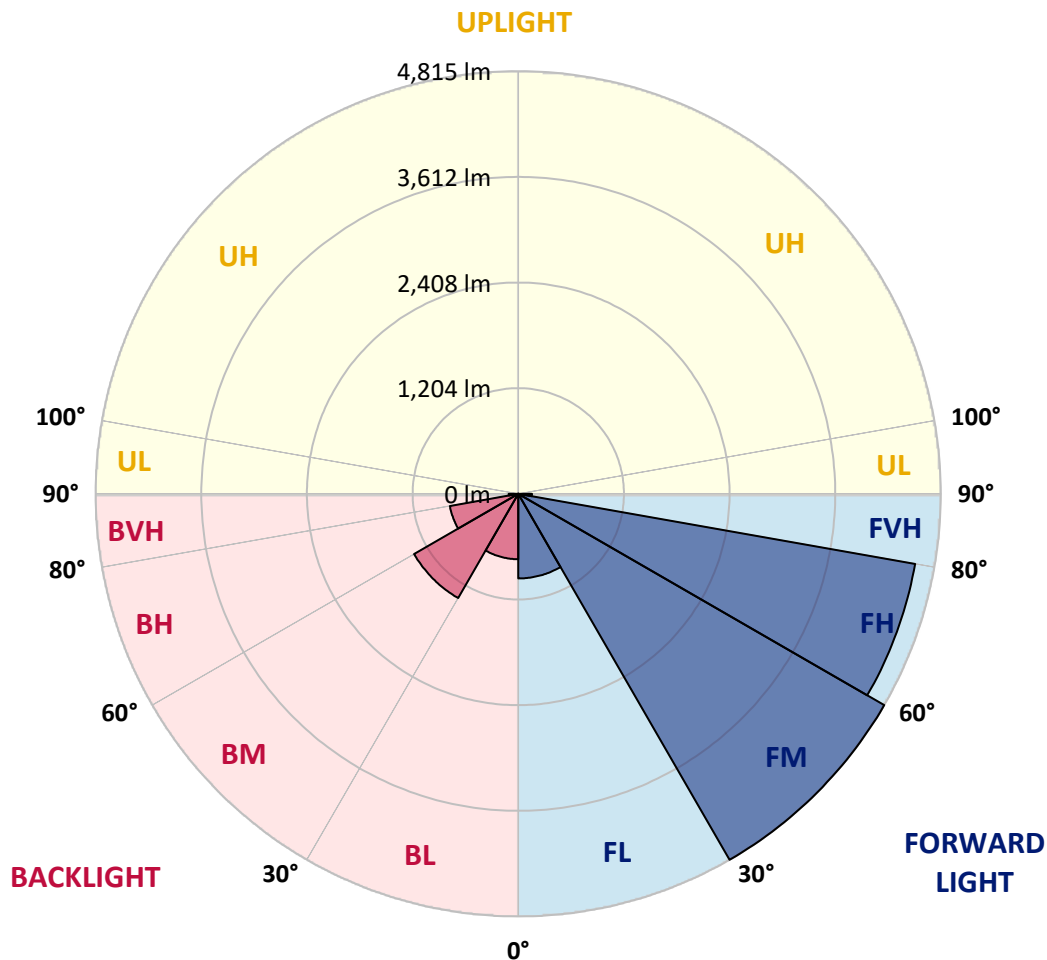
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	963.9	7.1			
FM (30°-60°)	4815.4	35.6			
FH (60°-80°)	4592.1	33.9			G2/5000
FVH (80°-90°)	156.4	1.2			G2/225
BL (0°-30°)	745.4	5.5	B2/1000		
BM (30°-60°)	1370.8	10.1	B2/2500		
BH (60°-80°)	791.0	5.8	B2/1000		G2/1000
BVH (80°-90°)	109.1	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	1781.9	1783.7	1782.3	1786.1	1781.9	1784.7	1782.3	1782.3	1780.9	1776.7	1772.1
5°	1809.9	1813.6	1811.3	1815.0	1809.9	1810.8	1806.6	1806.6	1802.4	1793.5	1784.2
7.5°	1853.7	1857.9	1856.1	1859.8	1852.8	1852.8	1847.2	1846.7	1838.3	1823.9	1813.1
10°	1906.0	1911.6	1909.7	1915.3	1909.7	1911.6	1906.0	1906.0	1894.8	1874.3	1860.7
12.5°	1982.0	1989.0	1983.9	1983.4	1981.1	1984.8	1980.2	1979.2	1969.0	1941.0	1922.3
15°	2083.7	2091.2	2080.5	2079.6	2066.5	2065.1	2065.1	2063.7	2057.2	2023.6	1992.8
17.5°	2200.9	2203.2	2193.9	2178.9	2162.1	2151.4	2150.0	2153.7	2153.7	2114.5	2065.6
20°	2315.6	2319.8	2312.4	2295.6	2274.1	2258.3	2247.1	2254.5	2254.1	2207.4	2137.9
22.5°	2440.7	2450.5	2439.3	2417.8	2392.6	2374.9	2355.3	2361.8	2362.3	2304.9	2208.8
25°	2602.6	2593.7	2586.7	2556.4	2520.5	2502.3	2484.1	2490.6	2488.7	2409.9	2282.0
27.5°	2745.8	2747.7	2738.4	2706.2	2664.6	2624.5	2623.6	2627.8	2620.8	2519.1	2351.1
30°	2912.4	2913.3	2900.3	2871.3	2826.1	2774.3	2762.2	2769.2	2754.2	2622.7	2423.9
32.5°	3078.0	3082.7	3068.2	3033.2	2996.8	2933.9	2909.6	2914.3	2876.9	2728.6	2499.0
35°	3223.1	3229.7	3225.0	3201.7	3162.0	3107.9	3079.0	3076.2	3030.0	2858.3	2598.4
37.5°	3371.0	3377.1	3372.0	3352.4	3336.5	3279.1	3263.7	3263.7	3183.5	2990.8	2724.8
40°	3523.2	3532.5	3526.4	3499.4	3485.8	3459.7	3422.8	3414.0	3327.2	3149.9	2931.1
42.5°	3664.5	3676.7	3700.9	3685.1	3657.5	3661.3	3587.1	3582.4	3519.0	3385.0	3190.0
45°	3865.2	3882.9	3923.9	3911.8	3906.2	3885.7	3797.5	3793.3	3769.0	3701.4	3511.5
47.5°	4084.0	4108.2	4182.4	4184.8	4245.0	4206.2	4086.3	4071.9	4077.4	4080.2	3903.9
50°	4285.5	4312.1	4433.9	4491.3	4633.1	4641.5	4449.8	4436.7	4458.6	4523.0	4361.1
52.5°	4446.5	4480.1	4632.2	4809.5	5052.6	5121.7	4897.2	4887.4	4903.8	5014.8	4878.1
55°	4564.6	4601.0	4766.6	5089.5	5477.7	5599.4	5412.3	5403.0	5413.3	5554.6	5440.3
57.5°	4592.1	4601.0	4841.2	5278.0	5836.5	6129.0	6042.7	6024.0	5973.6	6096.8	6060.9
60°	4462.8	4498.3	4779.7	5344.2	6114.1	6651.1	6701.5	6678.2	6536.8	6637.6	6608.7
62.5°	4200.6	4264.1	4549.6	5243.4	6222.8	7077.6	7347.7	7319.7	7076.2	7141.5	7002.4
65°	3772.3	3799.4	4099.4	4895.8	6084.7	7350.5	7923.9	7909.9	7603.4	7501.2	7075.2
67.5°	3006.2	3057.0	3311.8	4169.4	5519.7	7318.3	8369.5	8368.1	7947.7	7634.7	6817.2
69°	2374.9	2427.6	2670.2	3434.5	4884.2	7023.9	8444.2	8460.5	8044.8	7553.5	6448.6
70°	1893.4	1954.5	2121.1	2892.8	4320.1	6635.7	8382.1	8411.5	8026.1	7419.6	6108.5
72.5°	805.8	855.2	973.8	1491.2	2632.9	4955.1	7664.1	7775.1	7593.6	6790.6	5048.4
75°	351.8	367.2	420.9	608.0	1168.8	2696.8	6004.0	6209.3	6492.9	5739.9	3760.6
77.5°	257.6	264.1	293.5	356.9	524.4	1018.5	3861.0	3980.4	4682.6	4176.8	2306.8
80°	199.2	203.9	226.8	262.2	342.5	412.0	1760.9	1863.5	2632.9	2145.3	960.7
82.5°	158.6	161.9	177.8	193.2	236.6	249.6	584.6	648.5	971.9	592.6	254.3
85°	147.4	151.2	156.8	140.9	151.6	146.5	252.9	264.6	293.5	232.8	106.4
87.5°	66.7	78.9	155.4	109.6	80.7	64.4	103.6	108.2	121.8	122.2	47.1
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°	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7	1770.7
2.5°	1774.9	1773.5	1775.8	1770.2	1777.2	1776.7	1774.4	1775.3	1780.0	1779.5	1780.0
5°	1785.6	1784.7	1787.5	1783.3	1791.7	1794.5	1794.9	1799.1	1804.3	1805.7	1805.7
7.5°	1812.7	1812.7	1814.1	1808.5	1814.1	1813.6	1811.3	1815.5	1820.6	1821.1	1820.6
10°	1859.3	1859.8	1857.5	1843.0	1838.3	1825.7	1814.1	1814.5	1821.1	1826.2	1827.6
12.5°	1918.1	1916.2	1906.0	1879.4	1859.8	1834.1	1822.0	1821.5	1828.1	1832.3	1833.7
15°	1985.3	1980.2	1953.6	1910.2	1875.7	1850.5	1830.9	1826.2	1822.5	1817.8	1818.3
17.5°	2048.8	2037.1	1992.8	1932.6	1896.2	1862.6	1824.8	1794.5	1773.5	1761.3	1757.6
20°	2113.1	2090.3	2026.4	1953.6	1907.4	1846.3	1773.5	1711.9	1673.6	1655.9	1652.6
22.5°	2171.9	2135.1	2057.6	1975.5	1898.5	1791.2	1676.9	1587.3	1534.1	1510.3	1512.2
25°	2229.3	2178.0	2090.3	1990.9	1853.7	1694.2	1542.5	1432.4	1370.8	1344.2	1343.3
27.5°	2279.7	2221.4	2125.7	1978.3	1770.2	1556.0	1383.4	1276.1	1224.8	1201.9	1198.2
30°	2337.6	2276.0	2172.9	1930.2	1648.0	1396.5	1228.0	1152.5	1116.1	1093.2	1089.0
32.5°	2408.0	2350.2	2211.6	1843.0	1491.7	1229.9	1106.7	1054.0	1020.9	995.2	990.6
35°	2510.7	2448.1	2221.4	1718.0	1320.0	1098.3	1017.6	963.5	918.7	885.6	882.3
37.5°	2639.4	2570.9	2199.0	1556.0	1153.4	1012.9	943.4	876.7	818.4	771.7	764.3
40°	2825.1	2721.6	2136.9	1369.4	1030.7	947.2	871.1	795.1	722.7	668.1	657.4
42.5°	3048.2	2898.4	2041.8	1183.7	940.6	880.4	799.3	705.0	635.9	597.2	591.6
45°	3331.9	3082.2	1909.7	1021.3	852.0	813.7	721.8	635.0	592.1	563.6	559.0
47.5°	3655.7	3288.5	1771.1	889.3	776.9	751.2	659.7	603.8	569.7	547.3	543.1
50°	4053.7	3521.3	1624.2	781.1	701.3	676.1	630.4	586.5	559.4	542.2	538.0
52.5°	4502.5	3784.0	1518.3	695.7	638.7	620.6	615.0	577.2	555.2	542.2	538.0
55°	4985.9	4051.3	1403.9	623.8	584.6	589.8	604.7	578.1	563.2	547.3	541.2
57.5°	5469.7	4327.5	1276.6	563.2	541.7	566.9	597.7	580.0	567.4	552.0	546.4
60°	5852.3	4502.5	1079.2	512.3	507.6	541.7	580.9	566.0	549.6	550.1	549.2
62.5°	6031.0	4493.2	861.3	467.0	473.6	507.6	553.8	544.0	530.5	548.7	550.1
65°	5930.7	4269.2	670.5	426.0	437.2	472.2	525.8	533.3	538.0	573.0	577.6
67.5°	5509.9	3833.4	519.3	390.1	404.1	447.9	528.6	580.9	587.0	623.8	623.4
69°	5074.5	3424.7	451.2	371.4	387.7	454.0	565.0	611.2	588.4	627.6	622.0
70°	4709.7	3101.4	414.8	358.8	380.3	464.7	589.3	610.8	581.4	615.0	605.6
72.5°	3627.2	2231.2	351.8	335.5	355.1	444.7	596.3	597.2	565.0	571.6	555.7
75°	2487.8	1410.0	307.0	303.7	316.8	400.8	573.9	570.6	522.6	513.2	500.2
77.5°	1371.7	716.2	260.8	273.4	282.3	355.1	521.6	517.0	477.3	457.7	453.0
80°	529.1	313.5	220.2	243.1	248.7	307.5	457.2	453.0	419.9	394.7	387.7
82.5°	199.7	164.2	182.0	210.4	208.6	253.8	387.3	384.9	352.7	315.9	304.7
85°	92.4	98.4	144.2	173.6	160.0	188.0	309.8	314.0	274.8	231.0	231.0
87.5°	39.2	55.1	102.2	131.1	107.8	126.9	227.2	217.0	199.2	138.1	129.7
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)