

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: P386385

Luminaire Tested: GAW-SA2A-740-U-SL2

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386385  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2A-740-U-SL2  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9528 lumens  
Efficiency: N/A  
Efficacy: 144.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3

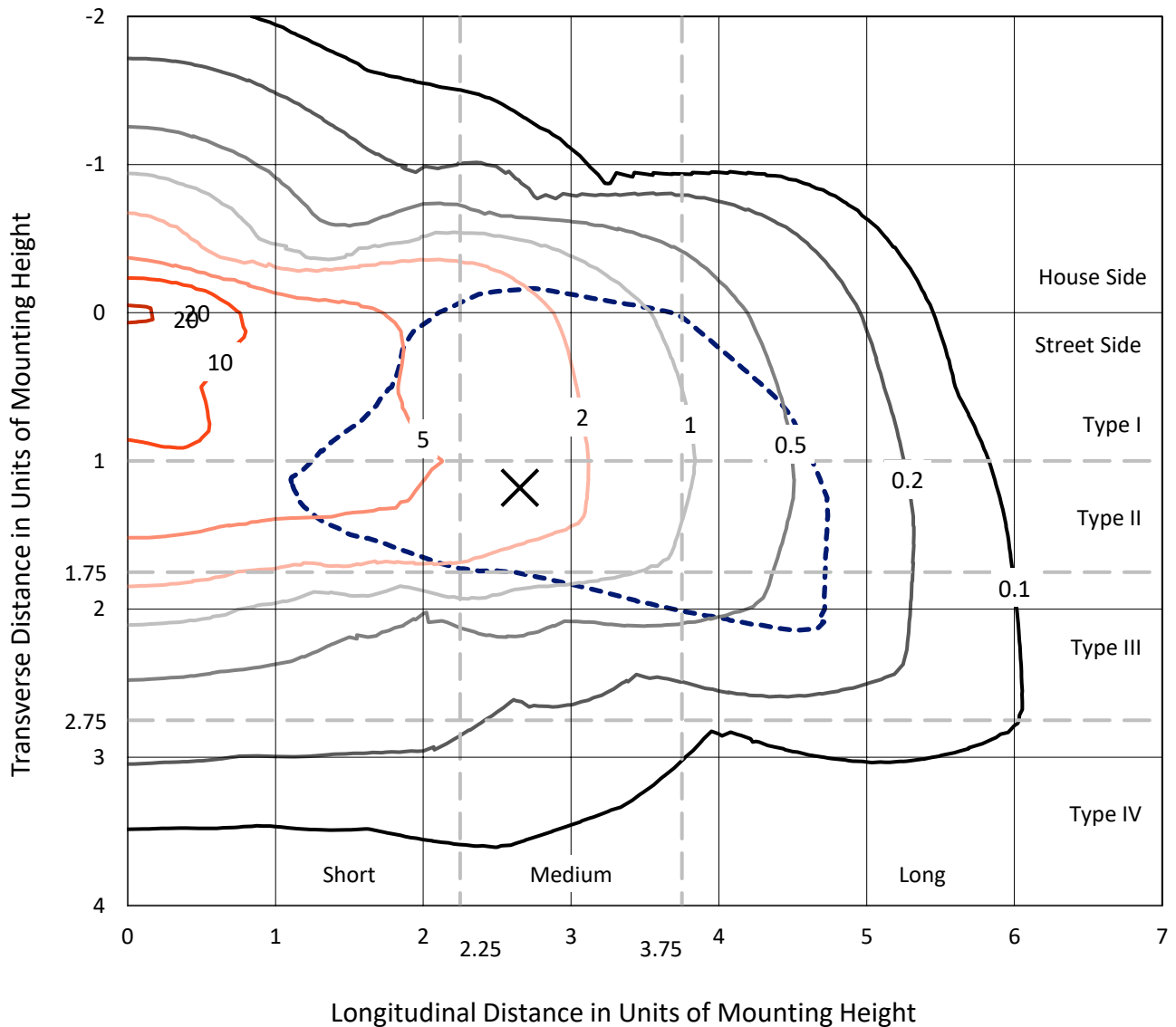
Input Watts (W): 66  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

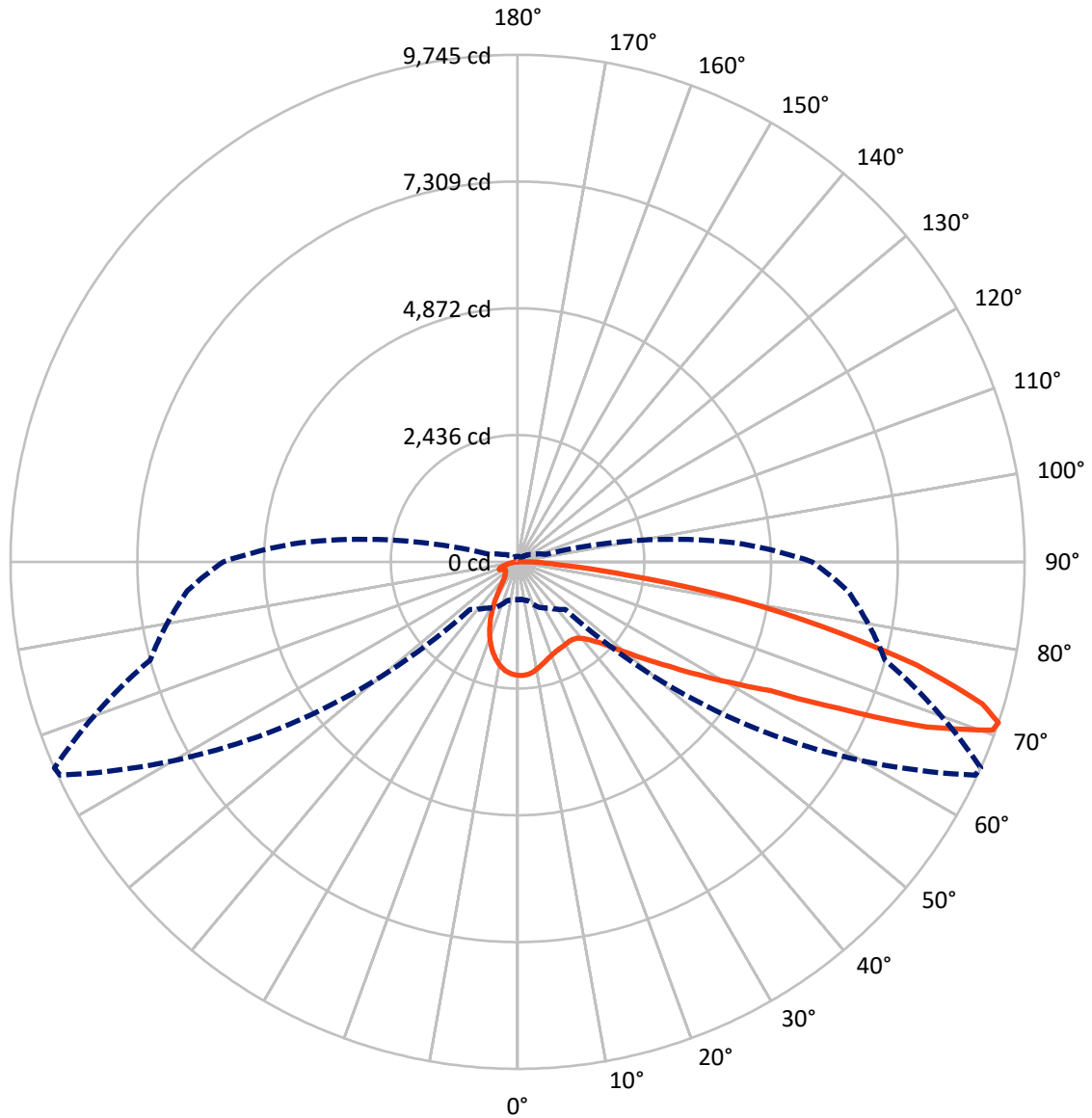
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 21.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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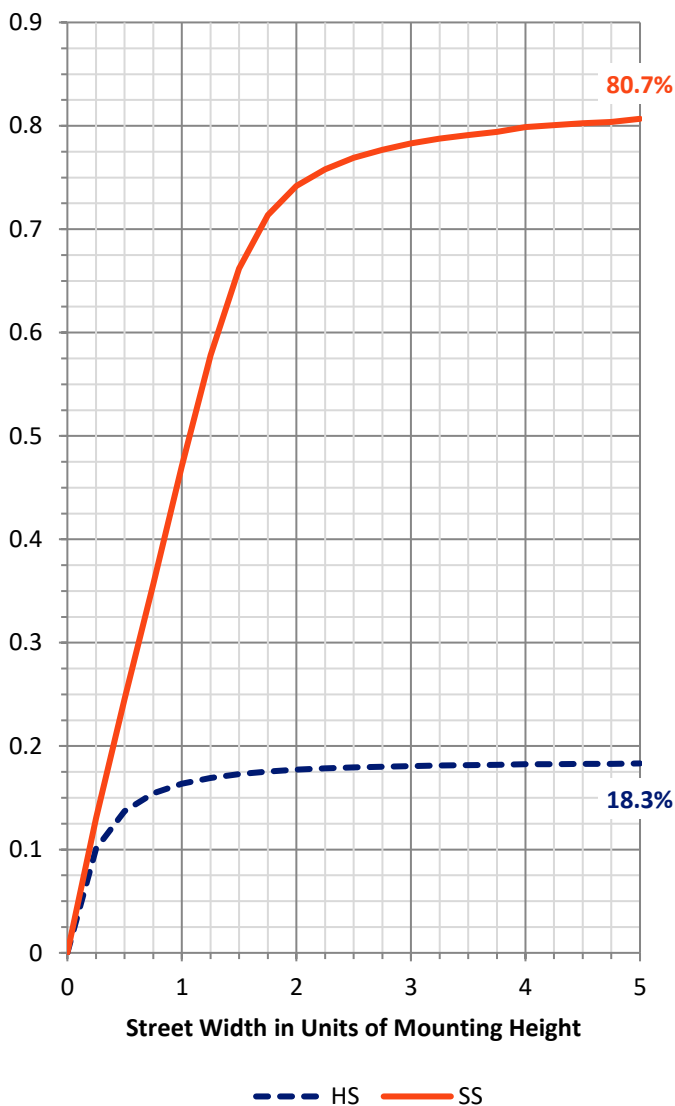
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1765.8	0.0	1765.8
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	7762.2	0.0	7762.2
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	9528.0	0.0	9528.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	192.1	2.0
10°-20°	460.8	4.8
20°-30°	619.0	6.5
30°-40°	814.3	8.5
40°-50°	1184.5	12.4
50°-60°	1850.4	19.4
60°-70°	2317.9	24.3
70°-80°	1768.0	18.6
80°-90°	321.1	3.4
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°	9528.0	100.0
0°-180°	9528.0	100.0

**Coefficient of Utilization**

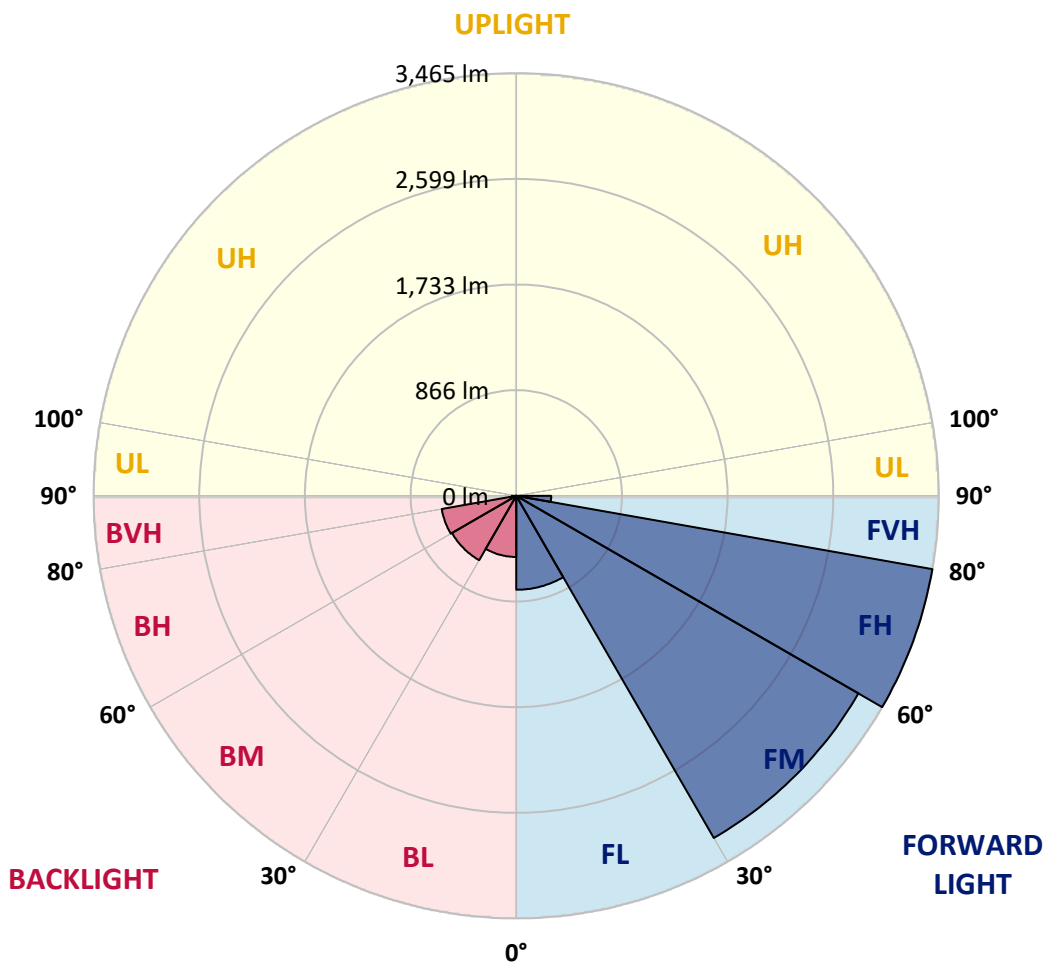


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	770.5	8.1			
FM (30°-60°)	3240.0	34.0			
FH (60°-80°)	3465.4	36.4			G2/5000
FVH (80°-90°)	286.3	3.0			G3/500
BL (0°-30°)	501.4	5.3	B2/1000		
BM (30°-60°)	609.1	6.4	B1/1000		
BH (60°-80°)	620.5	6.5	B2/1000		G2/1000
BVH (80°-90°)	34.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	2142.2	2138.9	2148.8	2159.0	2162.9	2169.5	2179.4	2185.0	2184.7	2185.6	2182.4
5°	2000.1	1995.8	2015.6	2031.7	2062.6	2097.5	2139.9	2170.2	2170.8	2187.9	2192.5
7.5°	1865.6	1862.6	1885.3	1911.3	1947.1	2000.4	2069.2	2134.3	2138.3	2184.7	2200.8
10°	1757.7	1757.0	1779.0	1807.3	1849.1	1908.7	1987.6	2083.0	2088.9	2168.9	2202.1
12.5°	1673.4	1674.8	1693.8	1726.1	1770.2	1832.3	1917.9	2025.4	2035.0	2143.9	2194.5
15°	1611.3	1616.5	1632.0	1664.6	1708.0	1771.1	1859.0	1972.1	1986.6	2115.9	2190.2
17.5°	1575.7	1581.7	1592.5	1619.5	1660.3	1721.1	1804.4	1928.4	1941.5	2094.5	2190.6
20°	1565.2	1570.1	1576.4	1592.8	1627.4	1682.7	1761.3	1888.9	1903.1	2077.4	2193.9
22.5°	1585.9	1589.6	1590.2	1588.9	1610.0	1655.0	1730.0	1860.0	1875.1	2066.2	2196.2
25°	1630.3	1635.3	1631.7	1619.5	1612.6	1640.2	1713.9	1840.9	1856.0	2058.0	2191.6
27.5°	1697.1	1697.8	1694.8	1679.0	1646.5	1641.9	1709.0	1829.7	1844.2	2048.5	2182.0
30°	1787.9	1792.2	1786.9	1765.6	1712.3	1668.2	1714.9	1818.8	1832.0	2036.3	2166.6
32.5°	1894.2	1904.7	1904.4	1882.0	1805.7	1727.1	1739.2	1812.3	1822.5	2023.5	2147.8
35°	2004.4	2018.9	2045.8	2036.3	1941.9	1820.2	1785.9	1822.8	1829.7	2021.8	2134.7
37.5°	2118.9	2133.3	2188.9	2214.6	2104.1	1953.4	1859.6	1860.0	1863.3	2041.9	2133.7
40°	2238.6	2254.1	2337.6	2404.4	2314.3	2122.2	1978.4	1937.6	1934.0	2091.2	2153.1
42.5°	2406.4	2420.2	2520.5	2605.7	2547.5	2338.3	2142.5	2057.3	2049.8	2187.9	2215.2
45°	2618.6	2630.4	2737.0	2828.1	2798.2	2585.0	2348.8	2222.2	2220.8	2349.1	2341.2
47.5°	2870.9	2880.1	2975.8	3064.0	3074.8	2868.9	2608.0	2476.4	2455.1	2570.2	2536.3
50°	3133.7	3143.9	3209.0	3303.8	3384.4	3248.9	2941.6	2788.0	2759.4	2862.0	2812.6
52.5°	3307.7	3321.2	3377.8	3497.9	3732.4	3665.3	3336.0	3165.6	3122.2	3215.6	3177.8
55°	3230.1	3260.4	3346.9	3539.3	4010.7	4301.5	3822.6	3606.1	3557.1	3634.7	3612.4
57.5°	2877.1	2918.6	3036.7	3333.7	4049.9	4862.1	4558.1	4124.9	4090.3	4068.0	4078.2
60°	2232.0	2271.8	2418.2	2805.4	3777.2	5271.3	5665.1	4764.4	4714.4	4502.9	4512.1
62.5°	1579.7	1559.6	1660.0	1943.2	3069.2	5319.4	6924.7	5619.7	5455.2	4962.1	4921.6
65°	1204.7	1200.1	1245.1	1335.3	1859.0	4744.7	7675.1	7057.3	6800.4	5502.3	5406.9
67.5°	989.9	981.6	1026.0	1157.3	1197.1	3061.0	7691.5	8725.1	8472.8	6174.7	5968.1
70°	813.9	804.6	846.1	1015.5	1106.3	1552.4	6473.4	9701.8	9688.3	7026.0	6391.8
71°	729.6	723.1	772.7	960.9	1086.9	1293.8	5589.1	9704.5	9744.9	7314.2	6366.8
72.5°	594.1	596.4	649.0	855.3	1072.4	1142.5	4107.8	9252.1	9337.7	7588.9	6139.5
75°	394.8	396.7	465.8	657.9	1039.9	1117.8	2257.7	7763.6	7920.8	7424.4	5602.3
77.5°	265.1	264.5	311.5	451.3	906.0	1117.8	1323.8	5806.6	5979.3	5907.5	4319.0
80°	182.6	181.3	214.5	311.5	685.9	1131.3	1023.4	4069.3	4121.6	3190.3	1755.4
82.5°	111.8	112.8	140.1	220.1	466.8	1018.1	966.2	2218.9	2162.0	894.8	438.5
85°	64.1	63.8	89.5	149.0	299.7	859.3	942.2	955.0	876.0	269.4	158.6
87.5°	23.0	24.7	48.0	82.6	171.7	598.4	799.4	496.7	447.7	121.7	71.7
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°	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7	2182.7
2.5°	2180.0	2182.0	2179.7	2166.6	2155.4	2137.3	2127.1	2112.9	2108.7	2106.7	2112.0
5°	2188.3	2188.9	2169.5	2135.0	2096.2	2050.4	2017.5	1977.1	1958.0	1949.8	1955.0
7.5°	2195.8	2192.9	2150.4	2084.3	2012.6	1933.0	1862.3	1797.5	1759.6	1744.2	1745.5
10°	2196.8	2184.3	2116.2	2013.9	1902.7	1785.9	1677.4	1577.4	1514.2	1473.1	1485.6
12.5°	2186.6	2165.6	2065.9	1922.8	1768.5	1609.3	1462.6	1312.6	1222.4	1180.7	1182.0
15°	2178.7	2140.6	2004.1	1815.6	1608.3	1397.4	1197.1	1020.8	924.7	882.0	861.9
17.5°	2172.2	2113.6	1932.3	1694.8	1419.2	1151.7	910.9	753.7	701.0	688.5	683.3
20°	2162.9	2085.0	1852.4	1555.0	1203.7	876.7	665.2	587.5	587.9	602.3	604.3
22.5°	2150.1	2052.4	1767.2	1398.1	972.4	638.5	521.4	499.0	521.7	549.4	554.3
25°	2131.0	2013.9	1672.5	1224.7	741.5	490.8	445.4	444.4	472.1	501.0	505.3
27.5°	2104.1	1963.6	1567.2	1038.5	546.4	417.1	399.0	405.9	426.3	447.4	449.0
30°	2067.9	1905.0	1451.1	842.1	428.3	371.4	369.4	375.7	388.2	403.0	404.3
32.5°	2028.1	1845.5	1327.0	652.0	366.8	346.7	348.7	351.7	357.6	363.5	364.8
35°	1991.9	1784.6	1200.1	495.4	337.5	330.6	329.3	328.6	329.3	327.3	327.6
37.5°	1968.5	1734.3	1067.8	394.4	320.7	316.5	312.5	307.6	302.0	298.7	299.4
40°	1960.0	1696.8	933.9	340.8	306.9	304.0	296.4	285.9	279.3	277.3	277.3
42.5°	1983.0	1677.4	804.6	313.8	295.4	290.5	278.0	265.8	260.9	260.5	260.2
45°	2053.4	1685.3	681.6	299.0	284.9	275.3	258.9	248.7	245.4	246.1	245.7
47.5°	2179.7	1735.0	576.3	289.2	274.4	261.9	243.4	235.2	231.3	231.3	231.6
50°	2394.5	1851.1	492.5	280.9	265.5	249.4	232.2	222.1	216.8	216.5	216.5
52.5°	2707.4	2059.0	440.2	274.0	255.6	238.2	221.1	208.2	202.0	200.7	200.0
55°	3099.5	2357.0	425.7	269.4	242.4	226.0	207.6	194.7	187.8	184.9	184.5
57.5°	3538.0	2719.6	454.3	263.8	229.0	211.5	192.8	180.6	173.4	169.7	169.4
60°	3981.8	3115.3	571.1	255.9	217.8	195.7	177.6	166.5	159.2	155.3	154.6
62.5°	4426.2	3532.4	809.6	255.3	209.9	180.6	162.2	152.6	145.7	141.5	140.5
65°	4927.6	3989.0	1080.6	272.7	207.2	166.8	146.4	138.8	132.9	129.0	128.6
67.5°	5503.2	4504.5	1054.7	308.6	216.1	154.3	131.6	125.7	121.4	118.1	117.8
70°	5773.3	4423.9	655.6	333.9	228.6	142.1	117.4	113.2	109.9	107.6	106.6
71°	5660.2	4200.5	549.7	330.9	227.3	136.8	111.8	108.6	105.3	103.3	102.3
72.5°	5351.6	3830.8	458.6	307.9	212.5	127.3	104.6	101.3	98.4	96.1	95.4
75°	4802.2	3421.2	367.1	246.1	169.4	107.6	91.8	88.2	85.9	84.5	83.2
77.5°	3530.1	2441.6	283.9	194.4	124.7	87.8	78.3	75.7	73.4	71.4	70.4
80°	1352.4	945.8	191.1	145.1	91.5	69.4	63.2	61.8	59.5	58.2	58.2
82.5°	364.2	282.6	102.0	87.8	61.2	50.7	48.4	47.7	45.7	43.1	43.4
85°	147.4	124.7	57.2	48.4	37.5	29.9	32.6	32.9	30.6	27.3	27.6
87.5°	64.8	53.0	31.9	21.4	16.4	11.5	14.8	14.8	13.5	11.2	10.2
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)