

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: P386791

Luminaire Tested: GAW-SA2C-727-U-T3

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386791  
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-SA2C-727-U-T3  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12347 lumens  
Efficiency: N/A  
Efficacy: 109.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

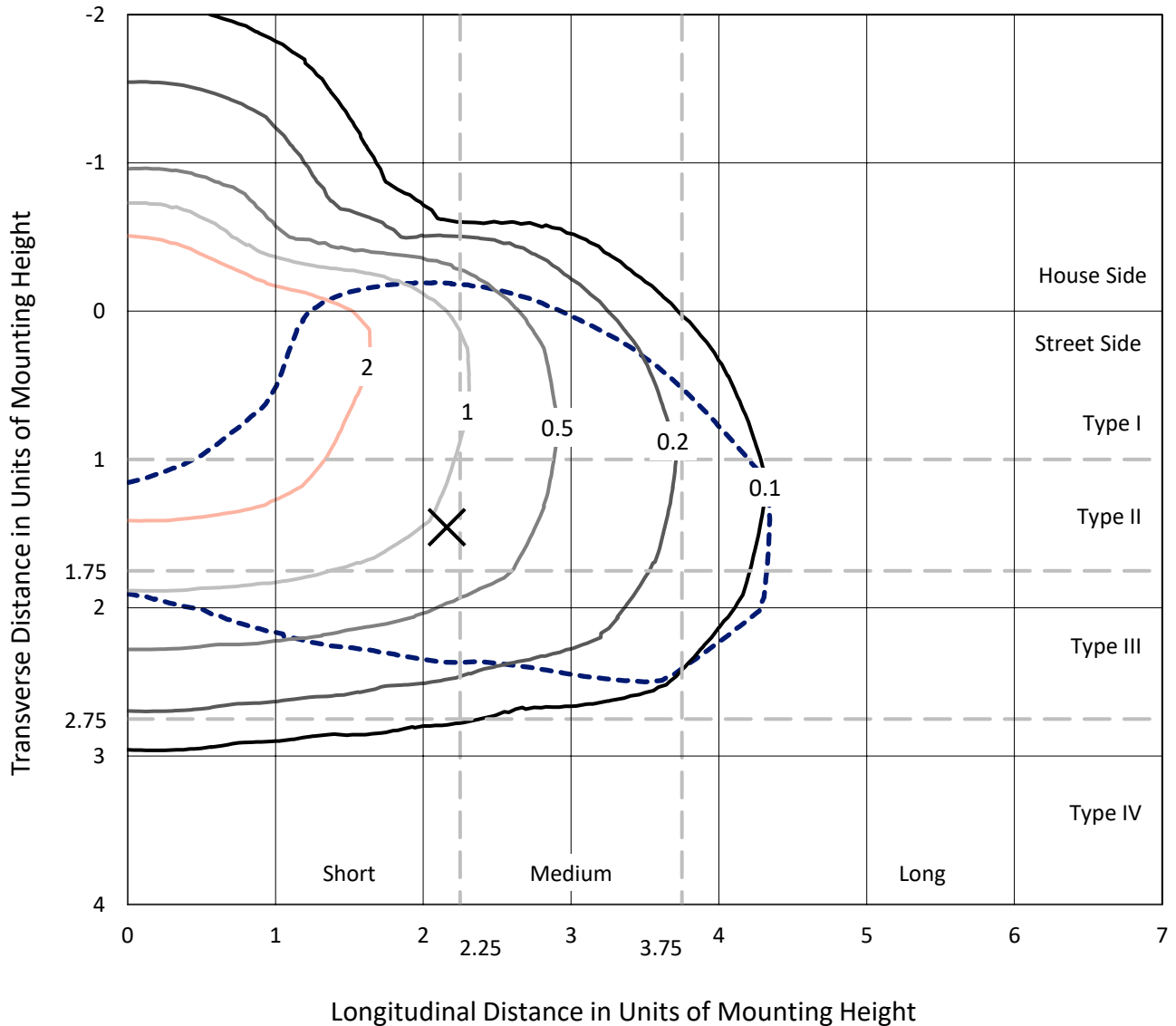
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

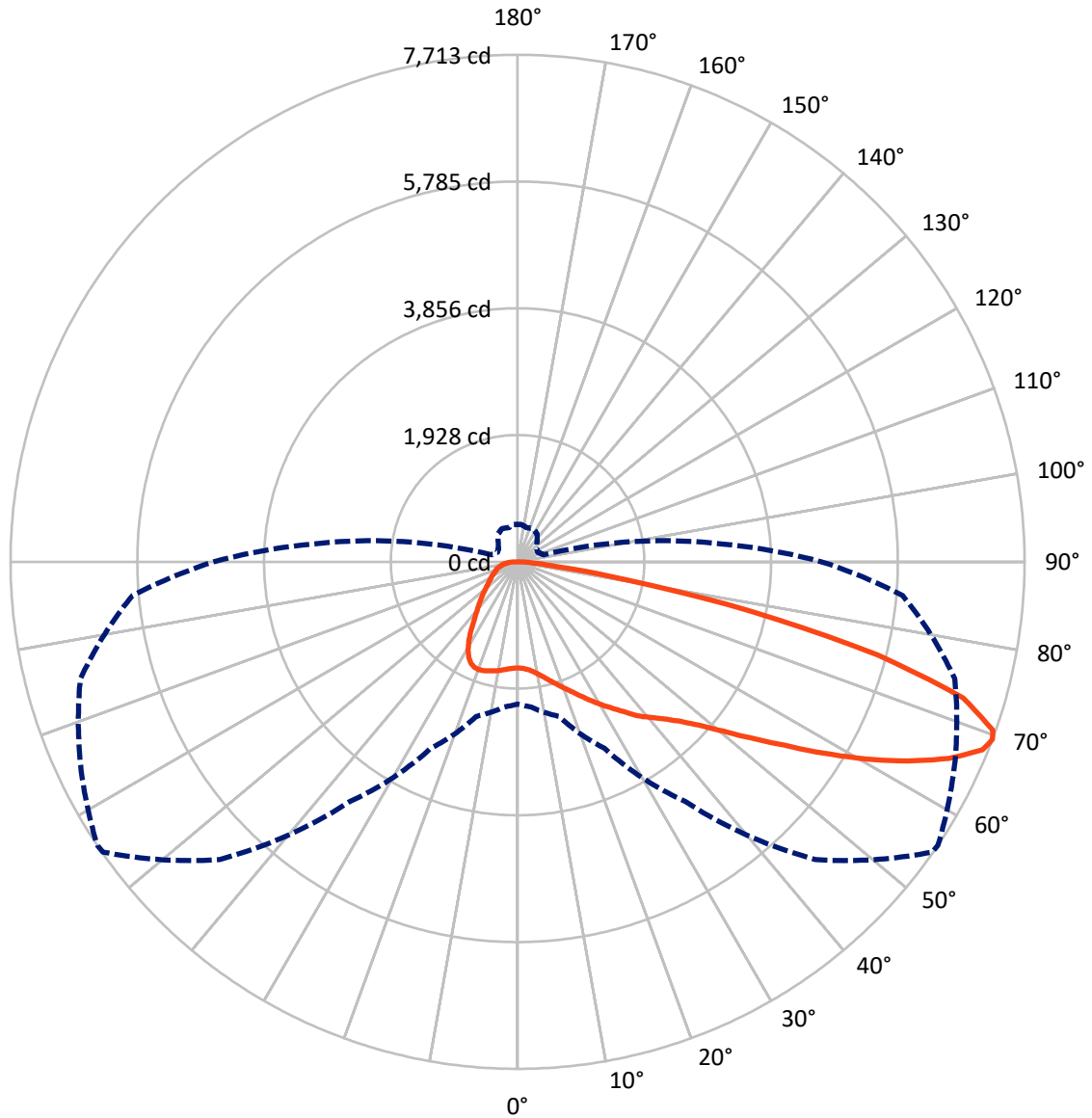
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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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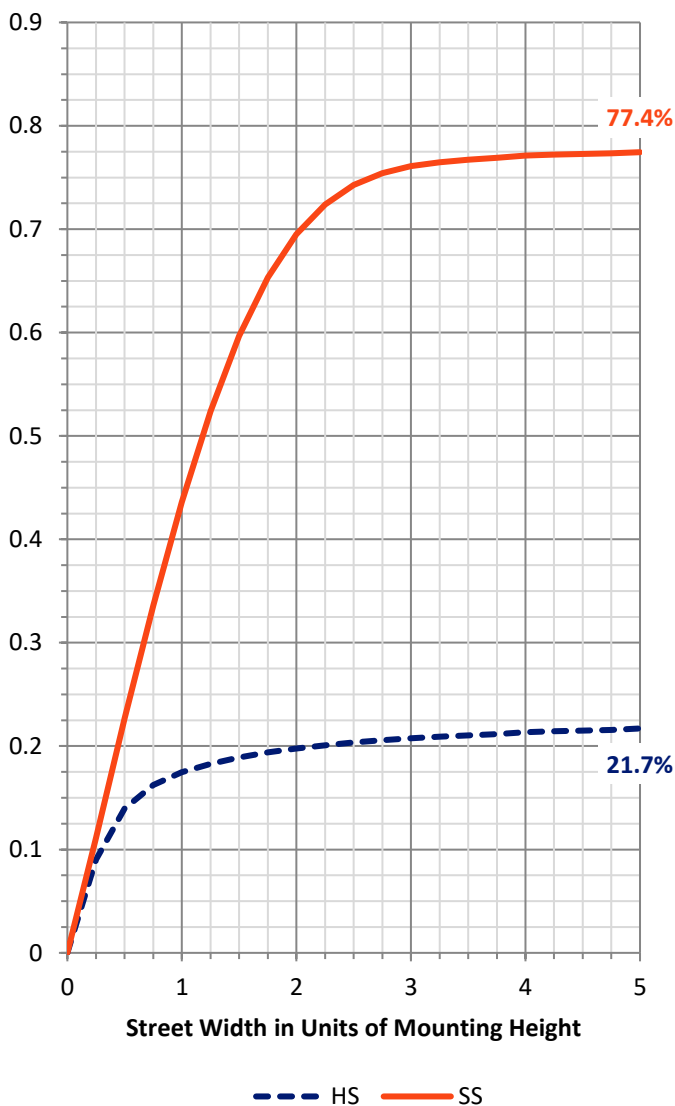
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2749.7	0.0	2749.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9597.3	0.0	9597.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	12347.0	0.0	12347.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	1.3
10°-20°	509.8	4.1
20°-30°	889.9	7.2
30°-40°	1278.3	10.4
40°-50°	1769.1	14.3
50°-60°	2592.0	21.0
60°-70°	3160.2	25.6
70°-80°	1747.1	14.2
80°-90°	242.0	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°	12347.0	100.0
0°-180°	12347.0	100.0

**Coefficient of Utilization**



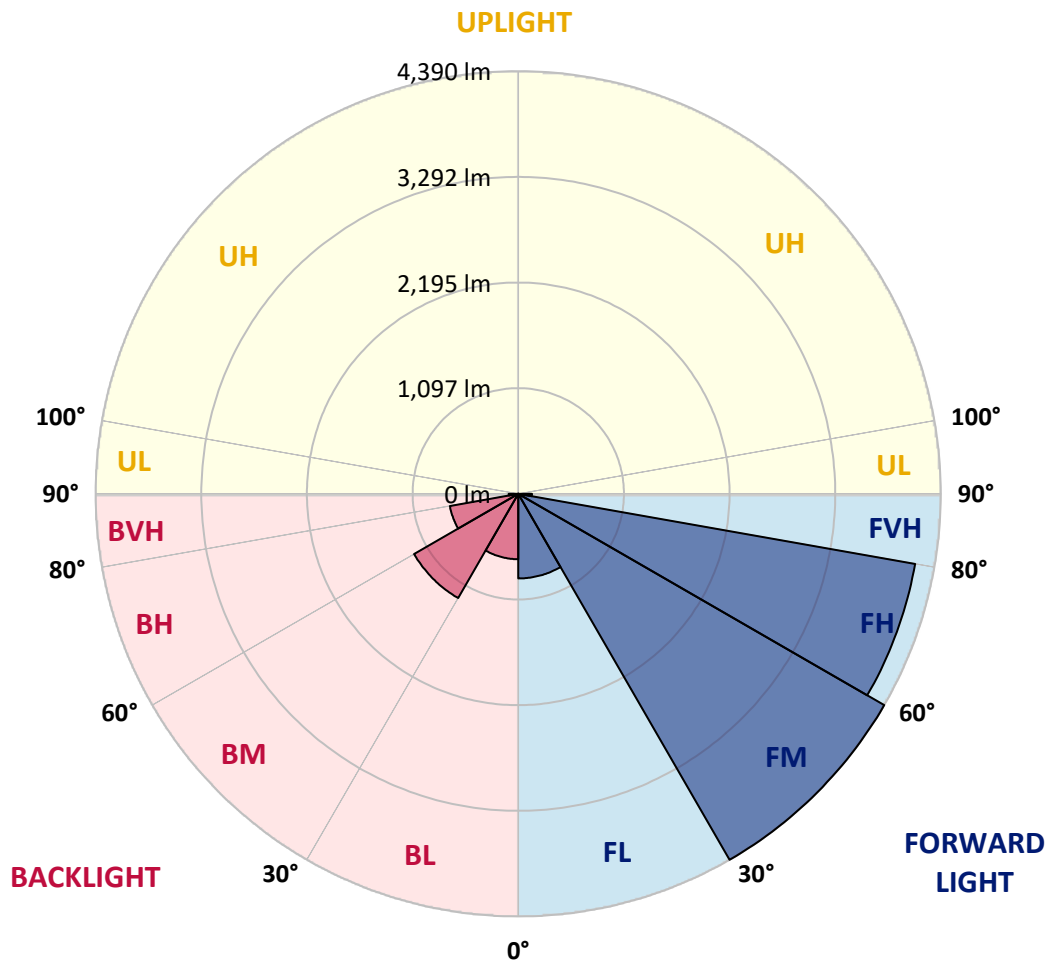
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	878.7	7.1			
FM (30°-60°)	4389.8	35.6			
FH (60°-80°)	4186.2	33.9			G2/5000
FVH (80°-90°)	142.5	1.2			G2/225
BL (0°-30°)	679.5	5.5	B2/1000		
BM (30°-60°)	1249.7	10.1	B2/2500		
BH (60°-80°)	721.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	99.4	0.8			G1/100
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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1624.4	1626.1	1624.8	1628.2	1624.4	1626.9	1624.8	1624.8	1623.5	1619.7	1615.5
5°	1649.9	1653.3	1651.2	1654.6	1649.9	1650.8	1646.9	1646.9	1643.1	1635.0	1626.5
7.5°	1689.9	1693.7	1692.0	1695.4	1689.0	1689.0	1683.9	1683.5	1675.9	1662.7	1652.9
10°	1737.5	1742.6	1740.9	1746.0	1740.9	1742.6	1737.5	1737.5	1727.3	1708.6	1696.3
12.5°	1806.9	1813.2	1808.6	1808.1	1806.0	1809.4	1805.2	1804.3	1795.0	1769.4	1752.4
15°	1899.6	1906.4	1896.6	1895.8	1883.9	1882.6	1882.6	1881.3	1875.3	1844.7	1816.6
17.5°	2006.4	2008.5	2000.0	1986.4	1971.0	1961.3	1960.0	1963.4	1963.4	1927.7	1883.0
20°	2111.0	2114.8	2108.0	2092.7	2073.1	2058.7	2048.5	2055.3	2054.8	2012.3	1948.9
22.5°	2225.0	2233.9	2223.7	2204.1	2181.2	2165.0	2147.1	2153.1	2153.5	2101.2	2013.6
25°	2372.6	2364.5	2358.1	2330.5	2297.7	2281.1	2264.5	2270.5	2268.8	2196.9	2080.4
27.5°	2503.2	2504.9	2496.3	2467.0	2429.1	2392.6	2391.7	2395.5	2389.2	2296.4	2143.3
30°	2655.0	2655.9	2643.9	2617.6	2576.3	2529.1	2518.0	2524.4	2510.8	2390.9	2209.7
32.5°	2806.0	2810.3	2797.1	2765.2	2732.0	2674.6	2652.5	2656.7	2622.7	2487.4	2278.1
35°	2938.3	2944.2	2940.0	2918.7	2882.6	2833.2	2806.9	2804.3	2762.2	2605.7	2368.7
37.5°	3073.1	3078.6	3074.0	3056.1	3041.6	2989.3	2975.3	2975.3	2902.1	2726.5	2484.0
40°	3211.8	3220.3	3214.8	3190.1	3177.8	3153.9	3120.3	3112.2	3033.1	2871.5	2672.0
42.5°	3340.7	3351.7	3373.8	3359.4	3334.3	3337.7	3270.1	3265.8	3208.0	3085.9	2908.1
45°	3523.6	3539.7	3577.2	3566.1	3561.0	3542.3	3461.9	3458.1	3435.9	3374.3	3201.1
47.5°	3723.0	3745.2	3812.8	3814.9	3869.8	3834.5	3725.2	3712.0	3717.1	3719.6	3558.9
50°	3906.8	3931.0	4042.1	4094.4	4223.7	4231.3	4056.5	4044.6	4064.6	4123.3	3975.7
52.5°	4053.5	4084.2	4222.8	4384.5	4606.1	4669.0	4464.4	4455.5	4470.4	4571.6	4447.0
55°	4161.2	4194.3	4345.3	4639.7	4993.6	5104.6	4934.0	4925.5	4934.9	5063.7	4959.5
57.5°	4186.2	4194.3	4413.4	4811.5	5320.6	5587.3	5508.6	5491.6	5445.7	5558.0	5525.2
60°	4068.4	4100.8	4357.2	4871.9	5573.7	6063.3	6109.2	6088.0	5959.1	6051.0	6024.6
62.5°	3829.4	3887.2	4147.5	4780.0	5672.8	6452.1	6698.3	6672.8	6450.8	6510.3	6383.6
65°	3438.9	3463.6	3737.1	4463.1	5546.9	6700.9	7223.6	7210.9	6931.4	6838.3	6449.9
67.5°	2740.5	2786.9	3019.1	3800.9	5031.8	6671.5	7629.8	7628.6	7245.3	6959.9	6214.7
69°	2165.0	2213.1	2434.2	3131.0	4452.5	6403.1	7697.9	7712.8	7333.8	6885.9	5878.7
70°	1726.1	1781.8	1933.6	2637.1	3938.3	6049.3	7641.3	7668.1	7316.8	6763.8	5568.6
72.5°	734.6	779.7	887.7	1359.4	2400.2	4517.2	6986.7	7087.9	6922.5	6190.5	4602.2
75°	320.7	334.7	383.7	554.2	1065.5	2458.5	5473.3	5660.5	5919.1	5232.6	3428.3
77.5°	234.8	240.7	267.5	325.4	478.1	928.5	3519.7	3628.6	4268.8	3807.7	2102.9
80°	181.6	185.9	206.7	239.0	312.2	375.6	1605.3	1698.8	2400.2	1955.7	875.8
82.5°	144.6	147.6	162.1	176.1	215.6	227.6	533.0	591.2	886.0	540.2	231.8
85°	134.4	137.8	142.9	128.5	138.2	133.6	230.5	241.2	267.5	212.2	97.0
87.5°	60.8	71.9	141.6	100.0	73.6	58.7	94.4	98.7	111.0	111.4	43.0
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°	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1618.0	1616.7	1618.9	1613.8	1620.1	1619.7	1617.6	1618.4	1622.7	1622.3	1622.7
5°	1627.8	1626.9	1629.5	1625.7	1633.3	1635.9	1636.3	1640.1	1644.8	1646.1	1646.1
7.5°	1652.5	1652.5	1653.7	1648.6	1653.7	1653.3	1651.2	1655.0	1659.7	1660.1	1659.7
10°	1695.0	1695.4	1693.3	1680.1	1675.9	1664.4	1653.7	1654.2	1660.1	1664.8	1666.1
12.5°	1748.6	1746.9	1737.5	1713.3	1695.4	1672.0	1661.0	1660.5	1666.5	1670.3	1671.6
15°	1809.8	1805.2	1780.9	1741.4	1709.9	1686.9	1669.1	1664.8	1661.4	1657.1	1657.6
17.5°	1867.7	1857.1	1816.6	1761.8	1728.6	1698.0	1663.5	1635.9	1616.7	1605.7	1602.3
20°	1926.4	1905.5	1847.3	1780.9	1738.8	1683.1	1616.7	1560.6	1525.7	1509.5	1506.6
22.5°	1980.0	1946.4	1875.8	1800.9	1730.7	1632.9	1528.7	1447.0	1398.5	1376.8	1378.5
25°	2032.3	1985.5	1905.5	1814.9	1689.9	1544.4	1406.2	1305.8	1249.7	1225.4	1224.6
27.5°	2078.2	2025.1	1937.9	1803.5	1613.8	1418.5	1261.1	1163.3	1116.5	1095.7	1092.3
30°	2131.0	2074.8	1980.8	1759.7	1502.3	1273.1	1119.5	1050.6	1017.4	996.6	992.8
32.5°	2195.2	2142.5	2016.1	1680.1	1359.8	1121.2	1008.9	960.9	930.7	907.3	903.0
35°	2288.8	2231.8	2025.1	1566.1	1203.3	1001.3	927.7	878.3	837.5	807.3	804.3
37.5°	2406.2	2343.7	2004.7	1418.5	1051.5	923.4	860.0	799.2	746.1	703.5	696.7
40°	2575.5	2481.0	1948.1	1248.4	939.6	863.5	794.1	724.8	658.9	609.1	599.3
42.5°	2778.8	2642.2	1861.3	1079.1	857.5	802.6	728.6	642.7	579.7	544.4	539.3
45°	3037.4	2809.8	1740.9	931.1	776.7	741.8	658.0	578.9	539.8	513.8	509.6
47.5°	3332.6	2997.8	1614.6	810.7	708.2	684.8	601.4	550.4	519.3	498.9	495.1
50°	3695.4	3210.1	1480.6	712.0	639.3	616.3	574.6	534.7	510.0	494.3	490.4
52.5°	4104.6	3449.5	1384.1	634.2	582.3	565.7	560.6	526.2	506.2	494.3	490.4
55°	4545.2	3693.3	1279.9	568.7	533.0	537.6	551.2	527.0	513.4	498.9	493.4
57.5°	4986.3	3945.1	1163.7	513.4	493.8	516.8	544.9	528.7	517.2	503.2	498.1
60°	5335.1	4104.6	983.8	467.0	462.8	493.8	529.6	515.9	501.1	501.5	500.6
62.5°	5498.0	4096.1	785.2	425.8	431.7	462.8	504.9	496.0	483.6	500.2	501.5
65°	5406.6	3891.9	611.2	388.3	398.5	430.4	479.4	486.2	490.4	522.3	526.6
67.5°	5022.9	3494.6	473.4	355.6	368.3	408.3	481.9	529.6	535.1	568.7	568.3
69°	4626.1	3122.0	411.3	338.6	353.5	413.9	515.1	557.2	536.4	572.1	567.0
70°	4293.4	2827.3	378.1	327.1	346.7	423.6	537.2	556.8	530.0	560.6	552.1
72.5°	3306.6	2034.0	320.7	305.8	323.7	405.4	543.6	544.4	515.1	521.0	506.6
75°	2267.9	1285.4	279.9	276.9	288.8	365.4	523.2	520.2	476.4	467.9	456.0
77.5°	1250.5	652.9	237.8	249.3	257.3	323.7	475.5	471.3	435.1	417.3	413.0
80°	482.3	285.8	200.8	221.6	226.7	280.3	416.8	413.0	382.8	359.8	353.5
82.5°	182.0	149.7	165.9	191.8	190.1	231.4	353.0	350.9	321.6	288.0	277.8
85°	84.2	89.7	131.4	158.2	145.9	171.4	282.4	286.3	250.5	210.5	210.5
87.5°	35.7	50.2	93.2	119.5	98.3	115.7	207.1	197.8	181.6	125.9	118.2
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)