

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: P386823

Luminaire Tested: GAW-SA2C-730-U-T4FT

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-2019  
Report Number: P386823  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: STREETWORKS  
Catalog Number: GAW-SA2C-730-U-T4FT  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13523 lumens  
Efficiency: N/A  
Efficacy: 119.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

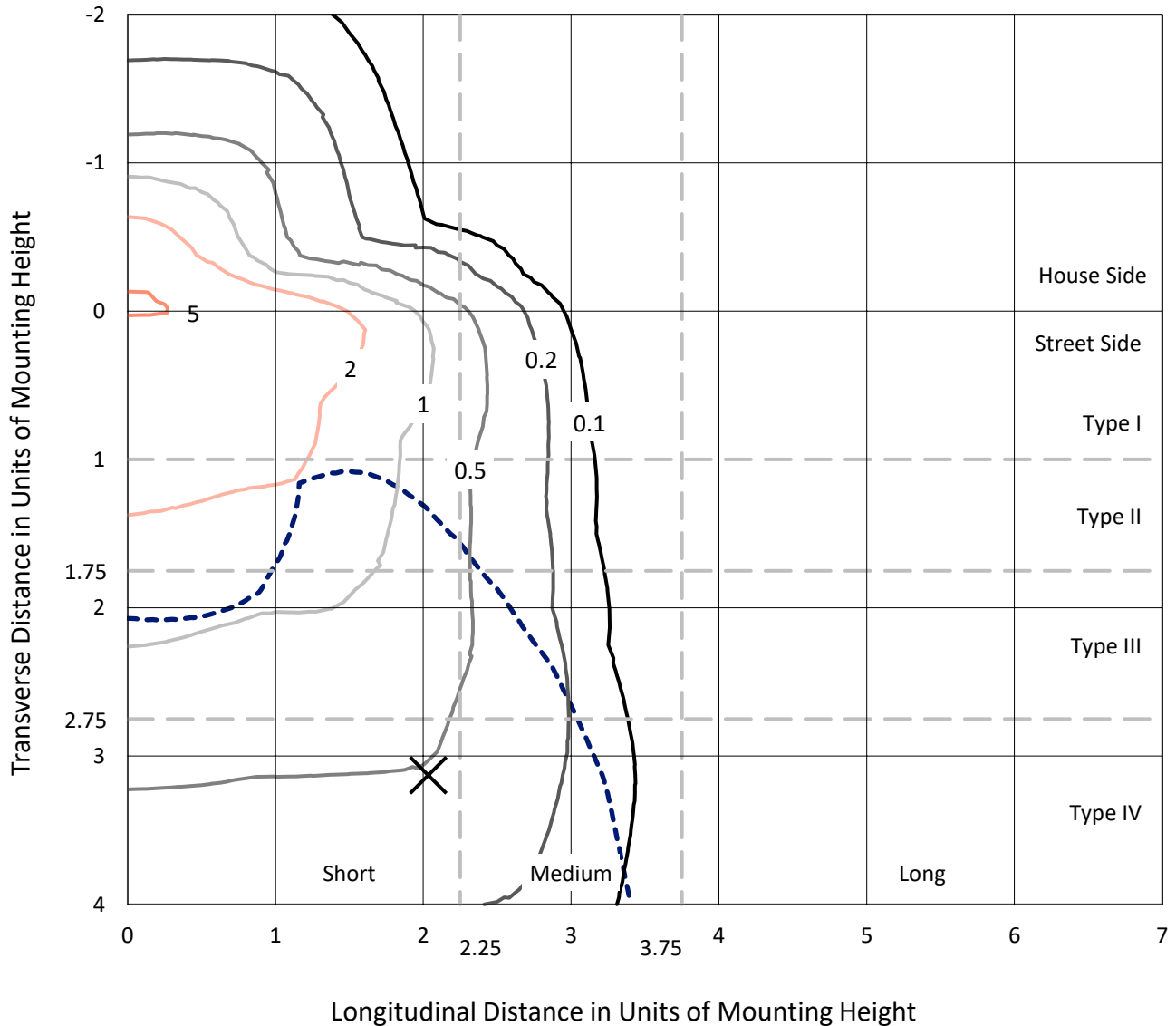
Input Watts (W): 113  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

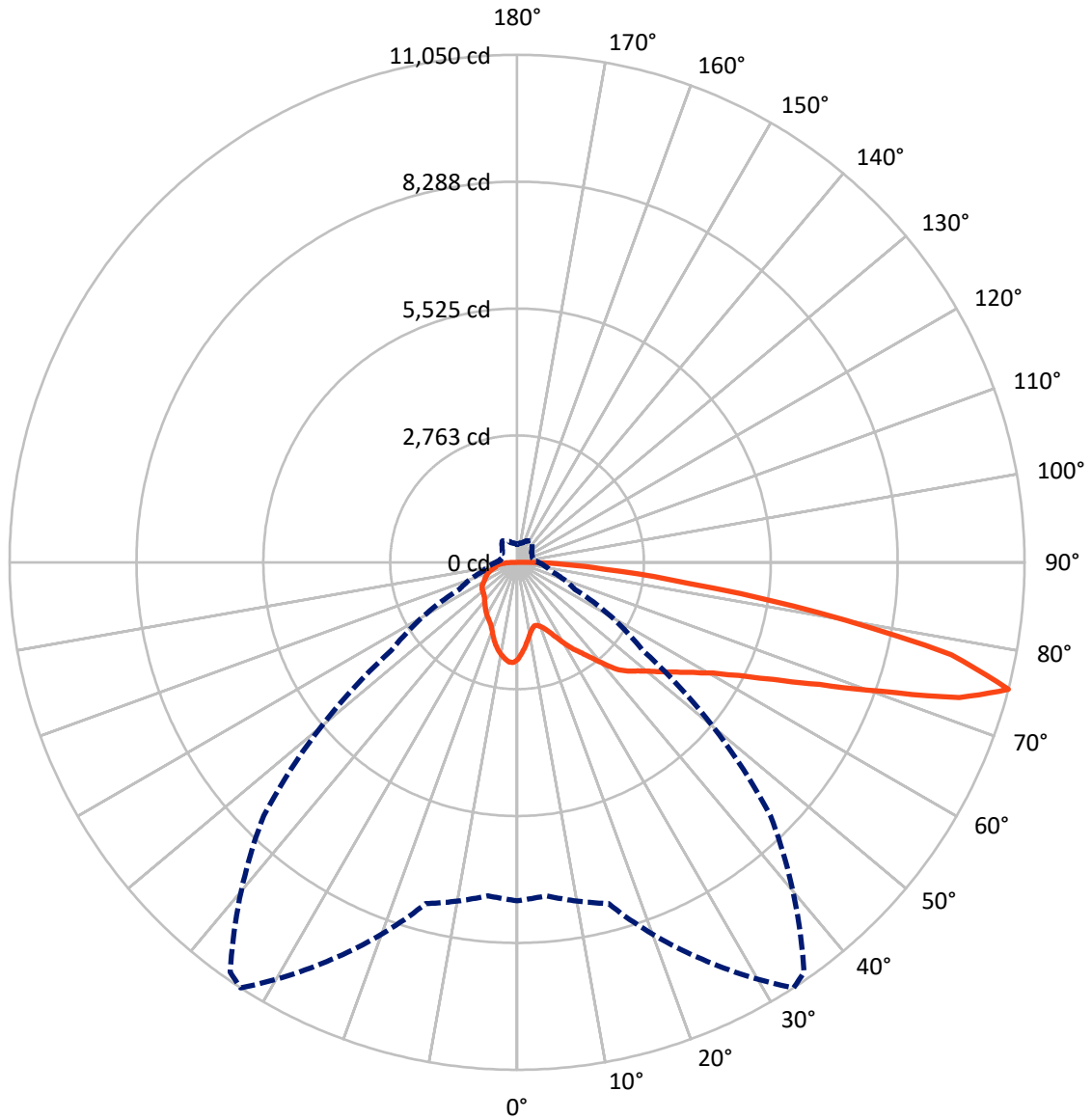
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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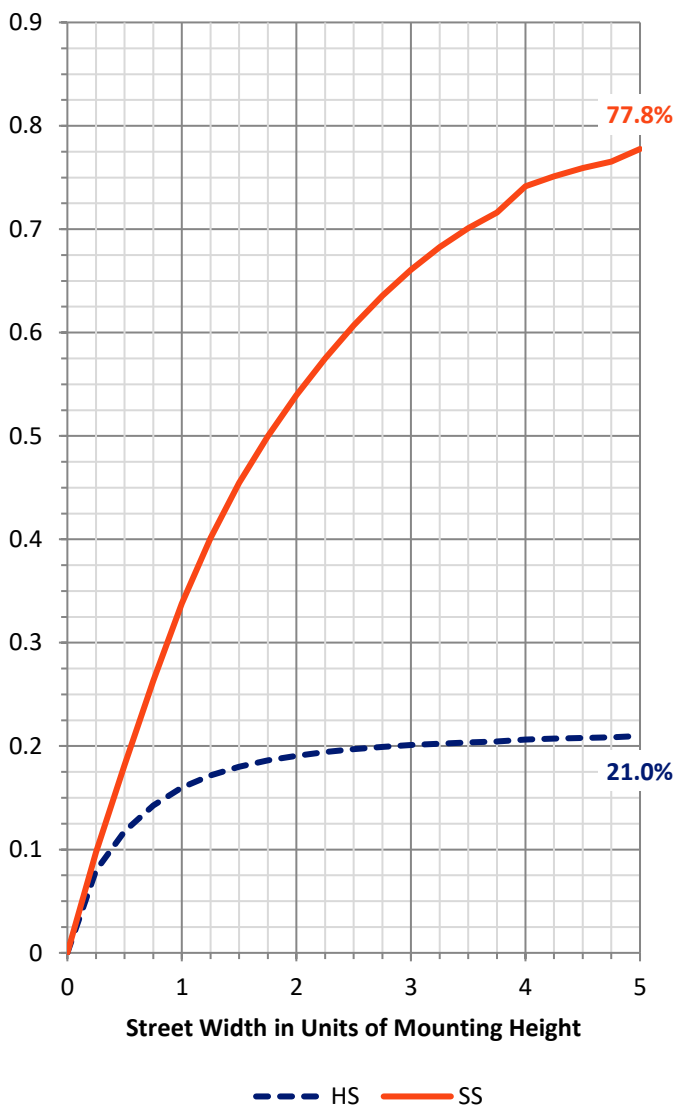
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2903.8	0.0	2903.8
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	10619.3	0.0	10619.3
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	13523.0	0.0	13523.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.2	1.4
10°-20°	517.7	3.8
20°-30°	845.5	6.3
30°-40°	1259.2	9.3
40°-50°	1806.1	13.4
50°-60°	2479.4	18.3
60°-70°	3104.2	23.0
70°-80°	2808.2	20.8
80°-90°	511.5	3.8
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°	13523.0	100.0
0°-180°	13523.0	100.0

**Coefficient of Utilization**



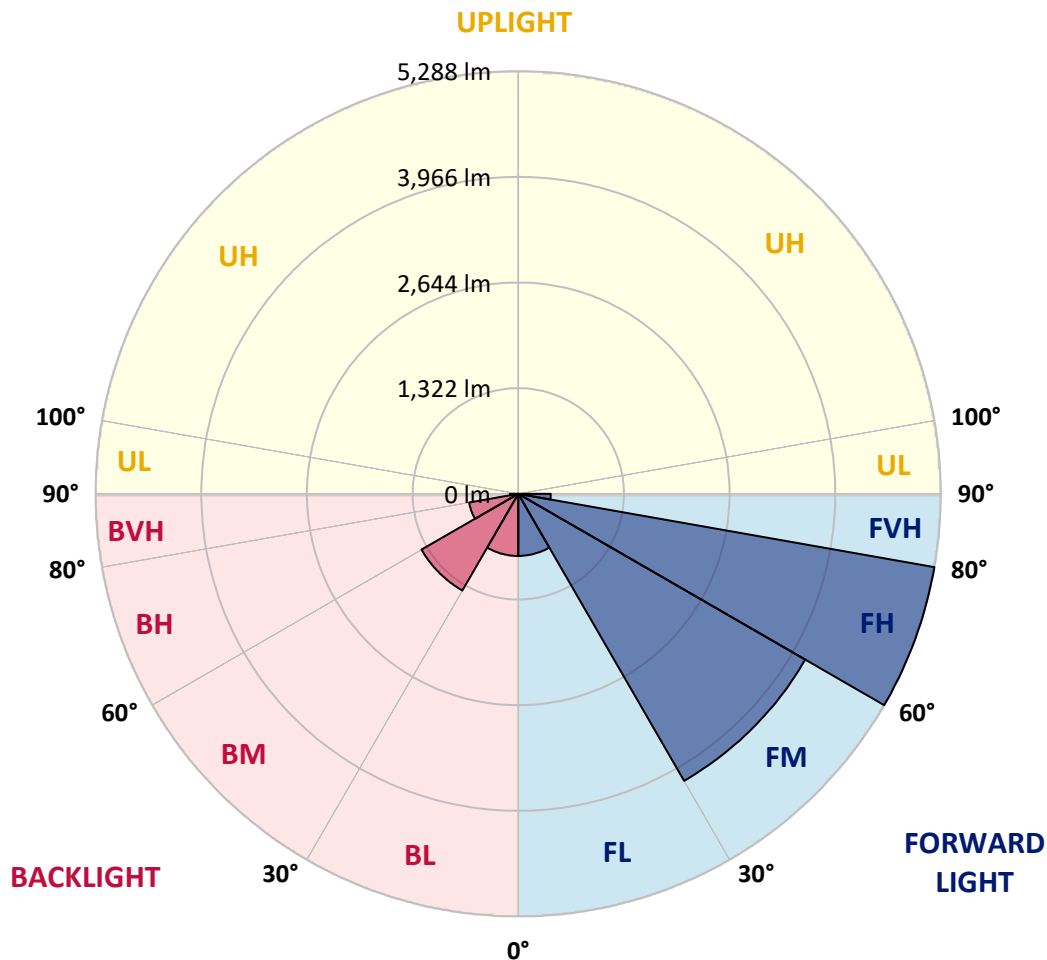
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.7	5.7			
FM (30°-60°)	4147.2	30.7			
FH (60°-80°)	5288.0	39.1			G3/7500
FVH (80°-90°)	407.4	3.0			G3/500
BL (0°-30°)	777.8	5.8	B2/1000		
BM (30°-60°)	1397.5	10.3	B2/2500		
BH (60°-80°)	624.4	4.6	B2/1000		G2/1000
BVH (80°-90°)	104.1	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-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	1962.8	1955.4	1969.4	1971.2	1983.4	1988.1	2004.9	2031.0	2052.5	2077.3	2099.7
5°	1784.9	1779.7	1799.3	1813.4	1840.0	1851.2	1890.9	1946.5	1996.0	2052.1	2103.0
7.5°	1615.8	1613.0	1634.9	1666.7	1697.5	1712.9	1781.6	1862.4	1945.1	2035.7	2113.7
10°	1473.3	1472.4	1493.4	1524.7	1570.0	1587.3	1676.0	1782.5	1898.4	2023.1	2131.9
12.5°	1393.4	1396.7	1406.5	1432.7	1474.7	1492.0	1590.5	1715.7	1859.1	2018.9	2158.6
15°	1413.0	1418.2	1401.4	1400.4	1430.3	1443.9	1536.4	1668.1	1831.1	2025.9	2197.3
17.5°	1496.7	1497.6	1453.2	1425.2	1443.4	1450.4	1519.5	1641.0	1814.8	2041.8	2245.9
20°	1614.4	1612.0	1533.6	1486.8	1496.7	1498.5	1543.4	1641.5	1813.4	2069.3	2309.0
22.5°	1770.4	1753.1	1647.5	1584.0	1581.7	1578.9	1604.6	1676.0	1833.9	2114.2	2384.2
25°	1974.1	1957.7	1812.4	1725.5	1706.9	1699.9	1703.6	1749.8	1874.6	2162.3	2468.3
27.5°	2200.6	2172.1	2032.0	1909.1	1870.4	1860.5	1838.1	1854.0	1918.9	2208.5	2568.2
30°	2390.3	2374.8	2252.5	2106.7	2060.9	2046.9	1988.1	1970.8	1982.9	2271.6	2694.4
32.5°	2496.3	2486.0	2411.7	2294.0	2251.5	2231.9	2148.8	2114.2	2085.7	2371.1	2865.3
35°	2624.8	2618.2	2573.4	2487.9	2424.8	2404.3	2339.8	2303.8	2230.5	2508.0	3086.3
37.5°	2788.2	2781.2	2782.2	2713.0	2637.8	2618.7	2576.2	2538.3	2418.3	2687.8	3326.4
40°	2973.2	2959.7	2954.5	2951.3	2903.6	2892.9	2870.5	2819.1	2653.7	2902.7	3563.2
42.5°	3251.6	3203.5	3100.7	3139.5	3186.7	3181.1	3199.3	3125.5	2915.3	3156.8	3794.4
45°	3520.2	3441.3	3263.8	3272.2	3375.4	3406.7	3543.1	3490.8	3198.8	3435.2	4033.6
47.5°	3642.6	3582.8	3431.9	3432.4	3534.7	3599.6	3898.6	3861.2	3496.9	3751.4	4325.5
50°	3779.5	3719.7	3584.2	3635.1	3724.4	3793.5	4241.9	4222.8	3780.4	4097.6	4675.4
52.5°	3929.0	3827.6	3741.6	3832.7	3957.9	4038.3	4585.7	4533.4	4040.6	4446.1	5077.6
55°	3930.8	3903.3	3968.7	4035.5	4222.8	4321.3	4945.9	4807.6	4252.7	4788.5	5405.1
57.5°	4154.6	4109.7	4248.5	4279.3	4524.1	4635.2	5304.2	5046.3	4468.5	5051.0	5581.6
60°	4450.7	4412.4	4525.9	4607.2	4896.8	5045.4	5686.7	5291.5	4638.0	5249.0	5573.2
62.5°	4962.2	4918.8	4917.4	5031.4	5421.4	5594.2	6116.0	5532.1	4705.3	5288.3	5335.5
65°	5711.0	5641.9	5511.6	5565.7	6145.9	6318.3	6595.7	5706.3	4616.6	5078.1	4723.1
67.5°	6439.7	6437.4	6277.2	6388.3	7102.6	7240.8	7142.3	5723.6	4339.6	4346.1	3636.5
70°	7166.1	7175.4	7148.3	7535.1	8395.1	8539.0	7724.3	5491.5	3716.9	3138.6	2178.7
72.5°	7741.6	7739.3	7875.7	8873.0	10072.5	10040.3	8214.8	4788.0	2668.7	1694.2	1041.2
75°	7368.8	7287.5	7693.9	9535.3	11050.2	10892.8	7797.6	3339.9	1385.0	771.2	560.5
77.5°	4806.2	4883.3	5479.8	7877.1	9665.7	9474.1	5720.8	1558.3	652.6	505.9	406.4
80°	1740.5	1821.8	2565.9	4461.9	6659.3	6628.0	2817.2	640.4	441.4	382.1	296.2
82.5°	598.8	628.7	1012.3	1981.5	3759.9	3900.0	1059.9	363.9	320.9	270.9	202.7
85°	235.0	269.1	462.9	953.4	1896.5	1910.5	429.3	217.7	223.3	177.5	111.2
87.5°	89.2	108.4	221.4	442.8	866.0	795.5	153.7	103.7	127.1	105.6	52.8
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°	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7	2113.7
2.5°	2117.0	2126.8	2147.4	2161.4	2176.3	2180.5	2182.4	2186.1	2189.9	2188.5	2188.9
5°	2130.1	2149.2	2182.4	2196.4	2202.9	2195.5	2181.0	2169.3	2160.9	2156.2	2154.8
7.5°	2151.6	2178.7	2214.2	2211.8	2196.9	2163.7	2126.3	2098.3	2074.9	2066.5	2061.9
10°	2180.1	2211.8	2236.6	2209.9	2166.5	2109.0	2053.0	2009.6	1974.5	1961.0	1958.6
12.5°	2216.5	2248.7	2253.4	2196.9	2124.9	2046.5	1970.3	1912.9	1860.5	1843.7	1840.0
15°	2263.7	2294.0	2265.1	2174.0	2073.5	1968.0	1869.4	1791.4	1736.3	1715.7	1708.3
17.5°	2313.2	2342.1	2267.4	2136.1	2006.3	1875.0	1751.2	1671.4	1608.3	1584.5	1581.7
20°	2372.5	2385.6	2257.6	2082.0	1913.8	1754.5	1624.2	1549.0	1515.3	1498.5	1496.7
22.5°	2445.8	2431.8	2235.2	2008.6	1796.5	1615.3	1509.3	1474.2	1465.8	1462.1	1463.5
25°	2523.4	2480.4	2202.0	1912.9	1648.5	1476.1	1425.2	1435.0	1446.2	1444.8	1444.8
27.5°	2608.9	2529.9	2151.1	1785.8	1484.5	1362.1	1368.2	1404.2	1421.0	1420.5	1420.0
30°	2718.6	2586.0	2086.2	1633.1	1331.3	1281.8	1318.7	1362.6	1385.5	1384.5	1385.0
32.5°	2853.6	2647.6	1997.9	1462.6	1220.6	1222.5	1265.0	1308.4	1335.0	1332.7	1333.2
35°	3011.5	2716.8	1878.3	1294.4	1147.2	1175.3	1208.9	1239.3	1264.5	1261.2	1258.0
37.5°	3183.4	2784.5	1719.5	1144.0	1087.5	1131.4	1159.4	1164.5	1176.2	1167.8	1161.7
40°	3346.9	2836.4	1514.9	1020.7	1027.2	1094.0	1112.2	1091.7	1070.6	1067.8	1059.4
42.5°	3489.4	2853.6	1307.9	922.1	963.7	1054.8	1066.0	1023.0	985.2	967.4	959.9
45°	3639.8	2859.7	1115.0	839.4	902.5	1019.7	1031.9	974.4	921.2	882.9	870.2
47.5°	3836.5	2903.6	965.1	778.2	855.8	996.4	1013.7	935.6	866.5	811.9	800.2
50°	4093.8	2990.5	843.2	731.5	825.4	981.0	1000.6	897.8	821.7	755.8	744.1
52.5°	4379.7	3070.4	744.6	693.7	796.0	953.9	983.8	870.7	779.6	704.0	691.3
55°	4579.7	3009.2	665.2	654.4	757.7	915.1	960.4	847.8	719.4	653.5	642.3
57.5°	4618.0	2799.9	604.9	613.8	711.4	866.5	924.4	796.9	686.7	631.5	619.9
60°	4513.3	2508.4	560.1	576.4	661.9	805.3	857.2	760.9	655.4	608.2	598.4
62.5°	4250.3	2209.9	526.9	542.8	615.7	743.2	815.1	723.1	623.6	581.6	571.8
65°	3719.2	1855.4	495.1	512.9	572.7	689.5	777.3	688.1	592.3	560.1	550.7
67.5°	2807.4	1389.7	465.3	481.1	534.4	642.8	736.2	653.5	561.9	541.4	530.2
70°	1653.1	870.2	431.2	448.0	494.2	594.2	692.3	615.7	524.1	514.8	500.3
72.5°	769.3	523.6	392.4	408.7	443.8	529.2	635.8	566.2	479.3	458.7	439.1
75°	459.2	383.0	346.6	361.1	385.8	460.1	564.7	515.7	436.8	409.7	389.1
77.5°	343.3	292.9	296.2	311.6	331.7	402.7	500.3	476.0	404.1	383.0	369.0
80°	247.1	222.3	241.5	258.3	279.3	366.2	479.3	440.0	365.3	337.3	324.2
82.5°	164.9	159.8	181.7	199.0	219.5	320.4	450.3	385.4	312.0	276.5	247.6
85°	91.1	96.2	122.4	129.9	147.6	225.6	369.0	309.7	235.0	189.2	180.8
87.5°	37.8	44.4	65.9	63.5	78.5	134.5	242.9	186.8	149.5	111.6	86.9
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)