

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: McGRAW-EDISON

Report Number: P631870

Luminaire Tested: GWS-SA2B-750-U-SL2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631870  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-29)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-750-U-SL2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

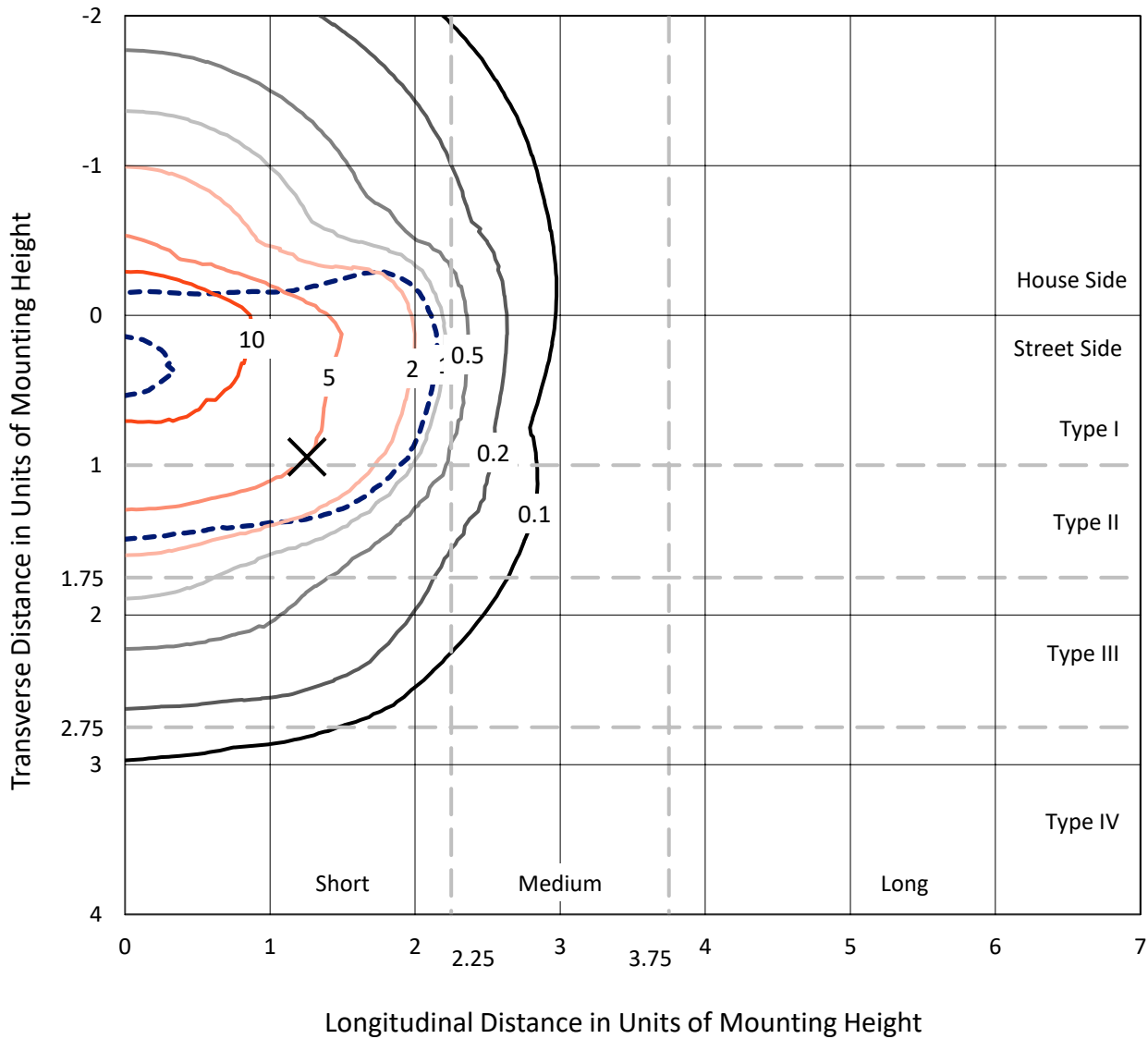
Lumens per Lamp: N/A  
Luminaire Lumens: 6012.6 lumens  
Efficiency: N/A  
Efficacy: 129.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
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

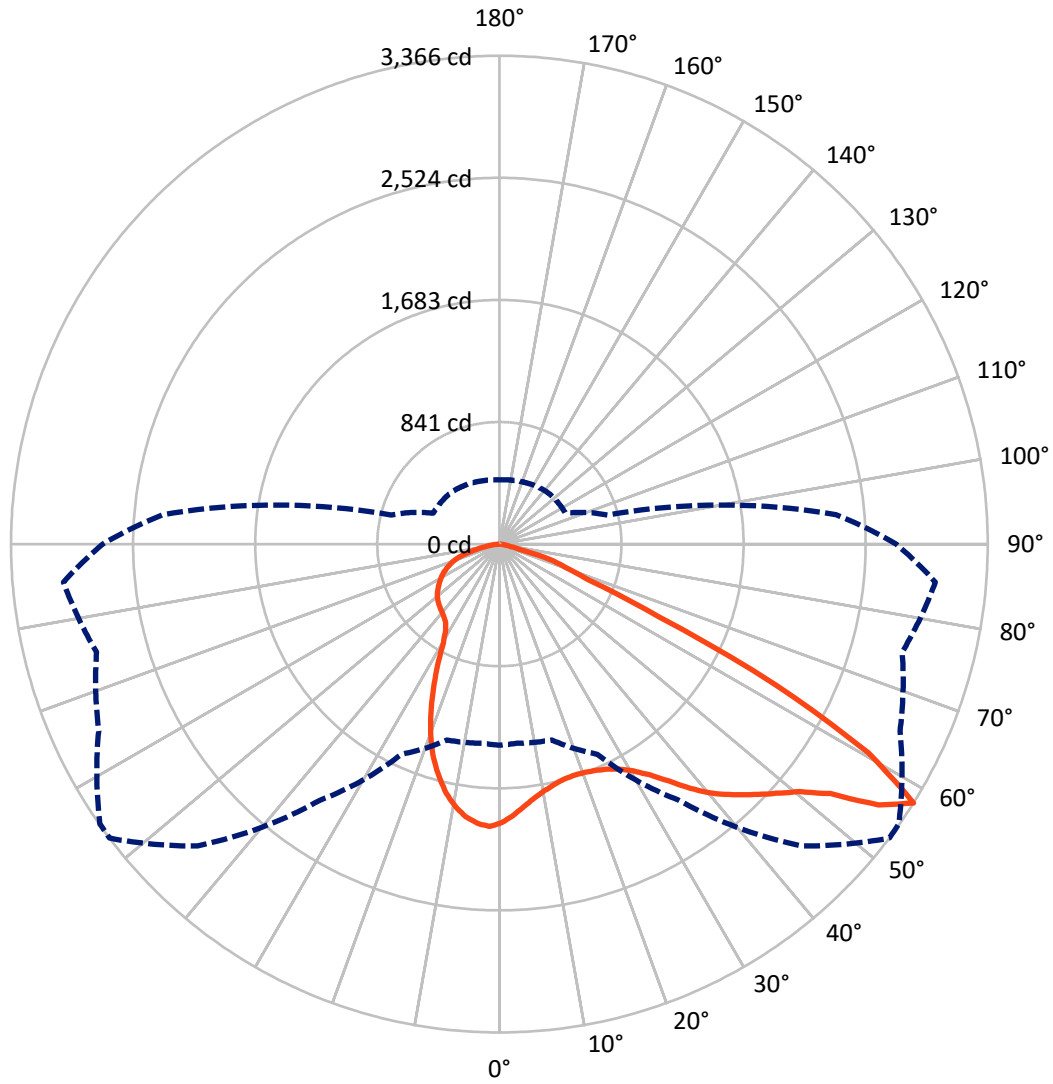
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1879.9	0.0	1879.9
	% Fixture	31.3	0.0	31.3
<b>Street Side</b>	Lumens	4132.7	0.0	4132.7
	% Fixture	68.7	0.0	68.7
<b>Total</b>	Lumens	6012.6	0.0	6012.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.6	2.9
10°-20°	455.5	7.6
20°-30°	671.1	11.2
30°-40°	939.4	15.6
40°-50°	1234.9	20.5
50°-60°	1447.9	24.1
60°-70°	853.0	14.2
70°-80°	212.2	3.5
80°-90°	24.9	0.4
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°	6012.6	100.0
0°-180°	6012.6	100.0

**Coefficient of Utilization**



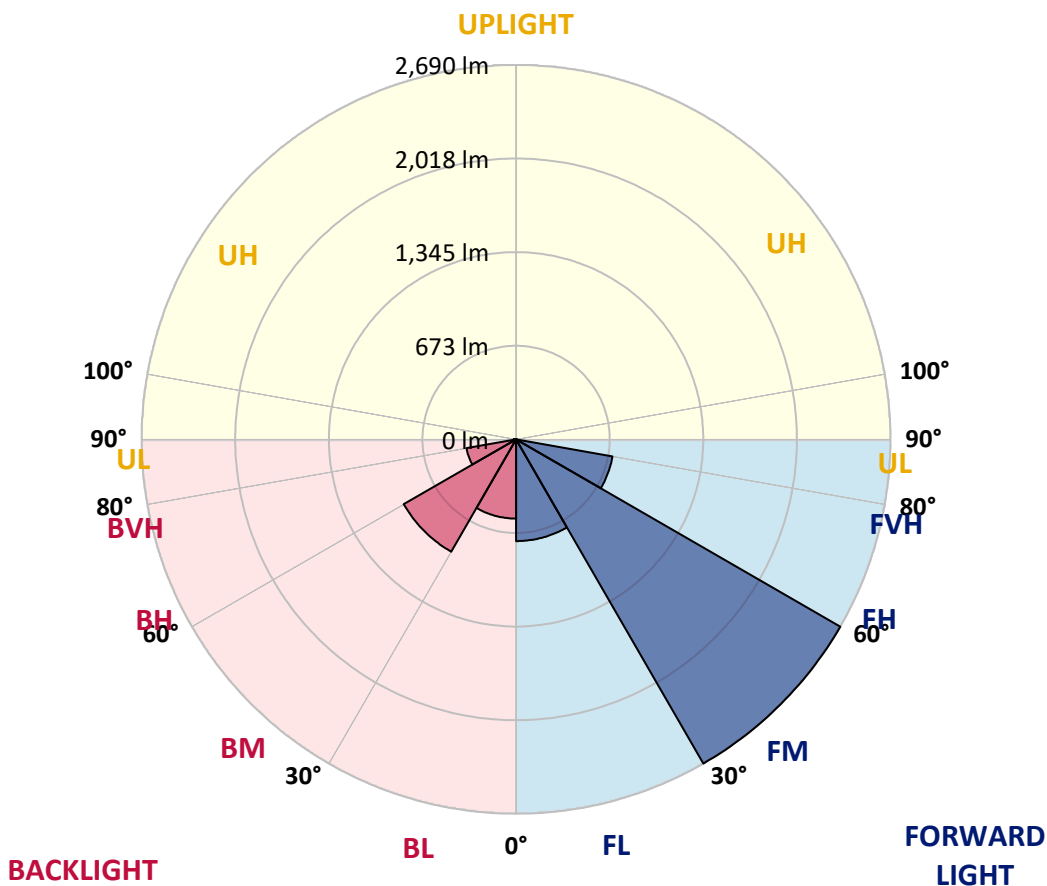
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.0	12.2			
FM (30°-60°)	2690.1	44.7			
FH (60°-80°)	703.2	11.7			G1/1800
FVH (80°-90°)	8.3	0.1			G0/10
BL (0°-30°)	569.2	9.5	B2/1000		
BM (30°-60°)	932.2	15.5	B1/1000		
BH (60°-80°)	361.9	6.0	B1/500		G1/500
BVH (80°-90°)	16.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0
2.5°	1809.7	1814.7	1815.7	1831.4	1832.4	1855.2	1870.4	1867.4	1883.0	1902.3	1917.5
5°	1723.1	1723.6	1728.7	1747.4	1757.5	1787.4	1812.7	1812.7	1843.1	1882.5	1916.4
7.5°	1651.8	1651.3	1655.8	1676.6	1693.3	1729.2	1763.6	1767.7	1810.2	1867.9	1923.0
10°	1585.5	1589.0	1594.1	1619.4	1640.6	1685.2	1726.2	1732.7	1786.4	1857.7	1932.1
12.5°	1543.0	1543.5	1551.1	1579.4	1606.7	1654.3	1697.3	1705.4	1767.2	1848.1	1938.7
15°	1515.6	1516.2	1524.2	1555.6	1587.5	1635.6	1679.6	1688.7	1756.0	1846.6	1951.4
17.5°	1503.5	1503.0	1510.6	1542.0	1576.9	1627.0	1674.0	1685.2	1761.1	1858.2	1973.6
20°	1503.5	1504.0	1508.1	1536.4	1571.8	1625.0	1679.6	1693.3	1780.8	1884.6	2008.0
22.5°	1524.8	1526.8	1528.8	1548.0	1575.9	1628.0	1694.3	1712.5	1823.3	1928.6	2053.1
25°	1566.3	1566.8	1568.8	1584.5	1597.1	1636.6	1718.6	1745.9	1889.6	1992.9	2109.8
27.5°	1621.9	1629.0	1631.0	1641.1	1641.1	1657.8	1756.5	1796.0	1979.2	2085.5	2182.1
30°	1699.9	1702.4	1705.9	1717.1	1704.9	1697.8	1812.2	1862.8	2082.9	2197.3	2269.2
32.5°	1768.2	1773.7	1793.0	1811.2	1789.4	1767.2	1894.2	1953.9	2182.6	2313.7	2361.8
35°	1826.4	1840.0	1877.0	1917.5	1902.3	1880.0	2003.0	2065.2	2264.6	2397.2	2443.8
37.5°	1896.7	1907.3	1957.9	2023.7	2037.4	2026.8	2135.6	2180.1	2319.3	2418.5	2488.3
40°	1968.1	1984.3	2049.5	2140.6	2192.8	2200.3	2258.0	2287.9	2338.0	2377.0	2479.7
42.5°	2040.9	2068.8	2158.3	2264.6	2357.2	2374.4	2361.3	2373.9	2331.9	2319.8	2439.7
45°	2130.0	2162.9	2264.1	2399.7	2521.7	2548.5	2462.5	2450.8	2330.9	2298.0	2414.9
47.5°	2235.3	2268.2	2364.8	2522.7	2678.6	2698.3	2566.2	2545.0	2366.3	2331.4	2448.3
50°	2328.4	2351.1	2437.7	2614.3	2824.8	2836.5	2680.6	2654.8	2454.4	2424.0	2552.6
52.5°	2233.7	2231.2	2322.3	2539.9	2900.7	3040.9	2856.7	2831.9	2624.4	2577.9	2714.0
55°	1895.2	1866.3	1947.8	2161.9	2688.7	3222.6	3172.5	3122.9	2851.1	2732.7	2865.3
57.5°	1385.6	1377.5	1397.2	1598.1	2153.8	2941.2	3365.8	3361.2	3047.0	2874.4	3016.1
60°	1083.5	1071.3	1018.7	1024.3	1468.1	2297.5	2921.0	3055.1	3168.4	2959.4	3121.4
62.5°	962.0	952.9	925.6	850.2	874.5	1540.4	2141.1	2264.1	2768.6	2613.8	2681.1
65°	796.5	794.0	816.8	813.7	732.8	850.7	1208.5	1332.5	1740.8	1762.6	1740.8
67.5°	578.9	574.4	632.1	745.9	705.4	642.2	673.6	716.6	892.7	801.6	721.6
70°	376.5	369.9	403.3	539.0	631.6	559.7	485.3	478.2	490.9	305.2	330.0
72.5°	252.5	244.9	244.4	296.6	381.6	377.0	376.0	372.5	332.5	240.9	267.2
75°	140.7	134.6	133.1	128.0	136.6	139.2	148.3	153.3	166.0	182.7	202.4
77.5°	23.8	23.3	29.4	37.4	51.6	66.3	82.0	86.5	106.8	126.5	139.2
80°	13.2	13.7	17.7	21.8	28.8	39.5	50.6	53.6	65.8	76.4	86.5
82.5°	7.1	7.1	9.1	11.6	15.7	20.7	27.3	29.9	38.0	44.5	51.6
85°	2.5	2.5	3.5	4.6	6.6	8.6	10.6	12.1	16.7	22.8	25.8
87.5°	0.0	0.0	0.0	0.0	0.5	1.0	2.0	2.0	2.5	4.6	6.6
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°	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0	1920.0
2.5°	1930.1	1916.4	1935.2	1943.8	1946.8	1948.8	1935.7	1926.6	1923.5	1913.9	1908.3
5°	1937.2	1928.1	1945.8	1945.8	1933.1	1920.0	1893.2	1874.4	1861.3	1845.6	1843.1
7.5°	1949.3	1942.8	1952.4	1932.6	1900.8	1865.3	1818.8	1782.3	1753.0	1733.8	1734.3
10°	1965.5	1957.4	1949.8	1905.8	1847.6	1782.3	1711.0	1657.8	1609.3	1587.0	1574.9
12.5°	1976.2	1964.5	1932.6	1859.8	1774.2	1686.7	1586.0	1507.0	1436.7	1404.8	1402.3
15°	1989.3	1968.1	1904.3	1800.0	1681.1	1561.7	1432.1	1322.3	1227.2	1177.6	1175.1
17.5°	2006.5	1971.6	1870.4	1731.7	1583.0	1406.8	1243.9	1105.7	1004.5	966.1	972.6
20°	2030.8	1975.7	1831.9	1655.8	1461.0	1230.7	1027.8	900.8	861.8	859.3	854.2
22.5°	2058.1	1978.2	1789.4	1570.8	1313.2	1043.0	849.2	795.0	794.5	807.2	810.2
25°	2089.0	1980.2	1741.3	1471.6	1153.3	855.7	751.0	734.8	747.4	771.2	774.3
27.5°	2128.5	1984.3	1683.2	1362.8	983.3	739.4	696.8	692.8	708.0	730.2	729.2
30°	2186.7	1998.9	1621.4	1237.8	808.7	684.2	663.9	664.5	670.5	681.2	682.7
32.5°	2245.9	2021.7	1561.2	1097.1	708.5	652.8	643.7	642.7	642.7	647.2	648.3
35°	2302.1	2047.5	1495.9	950.4	659.9	634.6	628.5	625.5	624.0	623.0	621.4
37.5°	2333.4	2060.2	1432.1	805.6	634.1	622.5	616.4	612.3	606.8	602.7	601.7
40°	2319.8	2045.5	1358.3	697.3	618.4	610.8	603.7	598.2	590.6	587.0	585.0
42.5°	2274.2	1999.9	1277.8	646.2	605.8	598.2	589.6	580.4	575.4	572.4	571.8
45°	2226.2	1944.8	1180.6	616.4	593.6	584.5	574.4	564.3	558.7	557.2	556.7
47.5°	2224.6	1917.5	1077.4	592.6	578.9	569.8	557.2	547.0	541.0	539.0	536.9
50°	2291.4	1945.3	961.0	571.8	563.7	554.1	540.0	528.8	521.2	518.7	518.2
52.5°	2430.1	2050.0	856.8	551.1	543.5	532.4	520.7	509.6	500.5	495.9	495.4
55°	2579.9	2183.1	792.0	529.8	519.7	510.1	499.5	487.3	477.2	470.1	469.1
57.5°	2734.7	2328.4	772.2	503.0	495.4	488.9	476.2	463.0	451.4	444.8	443.3
60°	2862.3	2453.4	809.2	474.7	470.6	462.0	450.4	437.7	429.6	424.6	423.6
62.5°	2396.2	1997.4	653.3	443.8	443.8	434.7	421.5	412.4	406.9	403.3	402.3
65°	1520.7	1236.8	445.8	412.9	412.4	400.3	389.2	383.1	380.6	375.0	374.0
67.5°	662.4	565.3	381.1	381.6	379.5	366.4	355.3	350.7	345.6	339.6	339.1
70°	343.6	350.2	341.1	346.7	343.1	327.4	316.8	309.7	299.1	293.0	293.5
72.5°	277.3	284.4	294.5	303.1	295.5	282.9	266.2	257.6	243.9	237.3	237.8
75°	211.5	219.1	228.7	237.8	231.8	216.1	205.5	196.9	181.2	173.6	175.1
77.5°	145.7	149.8	161.4	160.9	158.9	154.3	138.7	128.5	112.3	103.2	104.2
80°	90.6	93.1	98.7	101.2	100.2	94.1	81.5	73.9	64.3	58.7	59.2
82.5°	54.7	56.2	61.2	61.7	61.2	56.7	47.1	41.5	35.4	32.4	32.4
85°	27.8	28.8	31.9	31.9	28.8	24.3	21.8	19.2	15.7	14.2	14.2
87.5°	7.6	7.6	9.6	8.1	6.6	6.1	3.0	2.5	1.0	0.5	0.5
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)