

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: P637077

Luminaire Tested: GWS-SA4C-722-U-T4W-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4C-722-U-T4W-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: (64) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

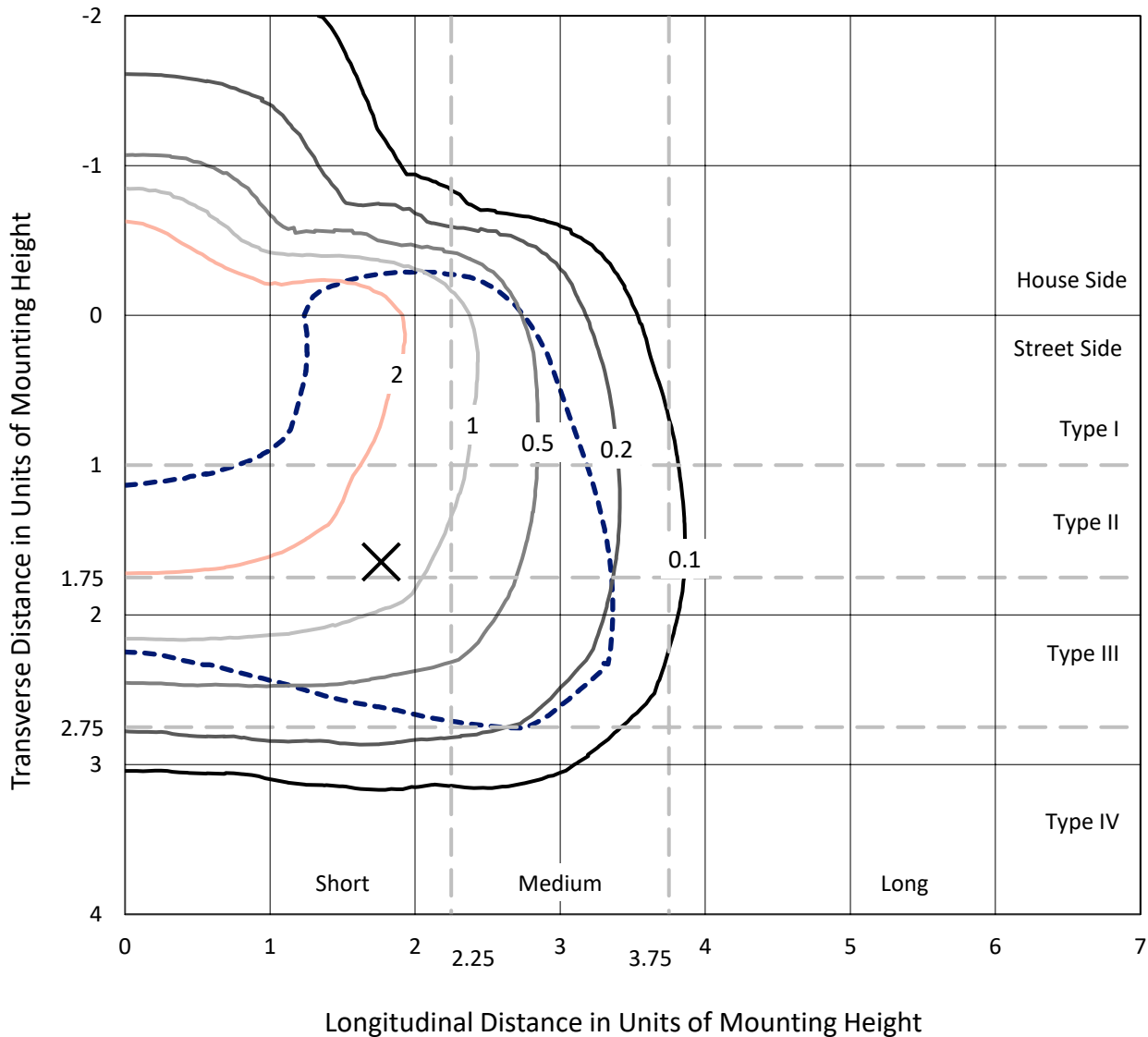
Lumens per Lamp: N/A  
Luminaire Lumens: 14176 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 128.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

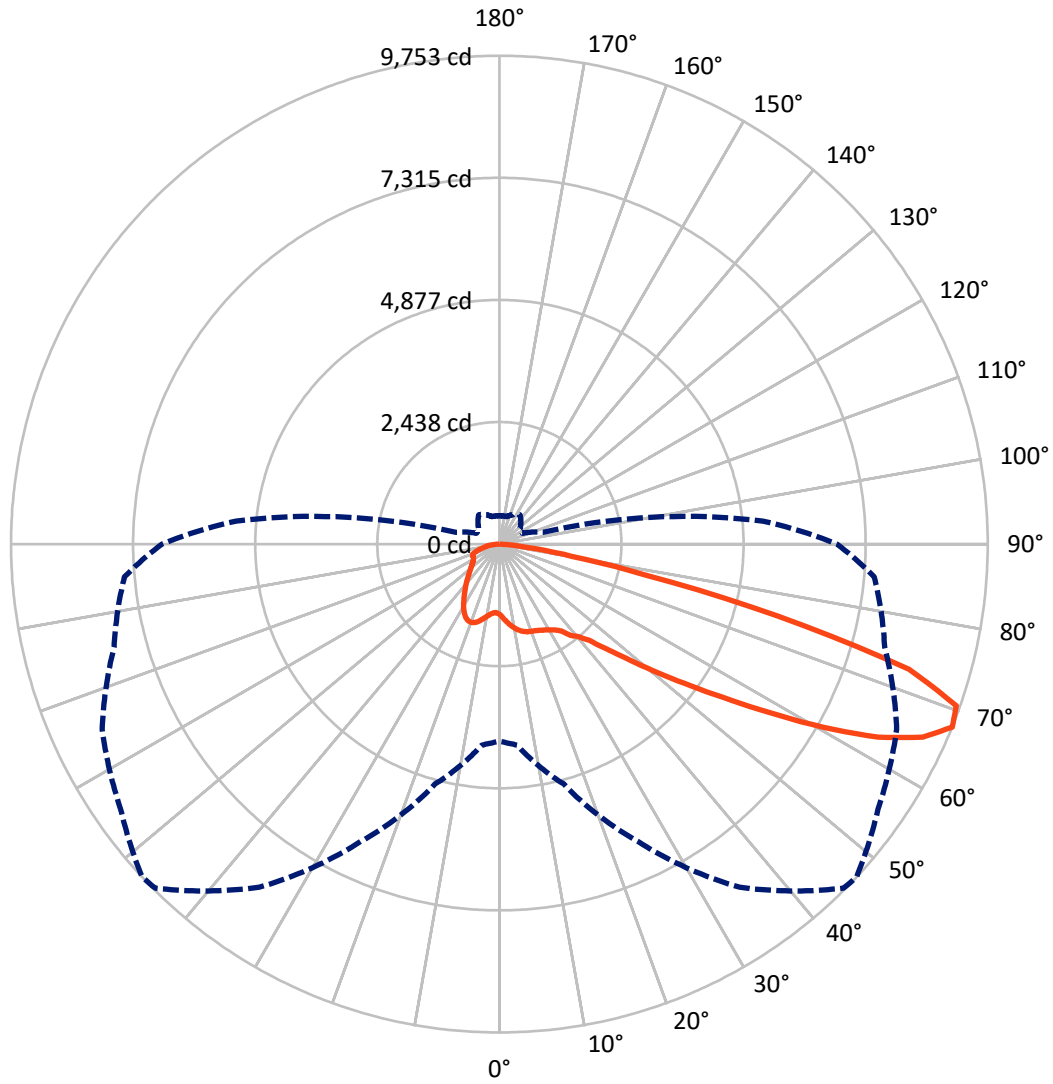
✕ Max cd  
 - - - 1/2 Max cd



Based on 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 47-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3230.8	0.0	3230.8
	% Fixture	22.8	0.0	22.8
<b>Street Side</b>	Lumens	10945.2	0.0	10945.2
	% Fixture	77.2	0.0	77.2
<b>Total</b>	Lumens	14176.0	0.0	14176.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	143.6	1.0
10°-20°	478.5	3.4
20°-30°	813.3	5.7
30°-40°	1191.4	8.4
40°-50°	1815.3	12.8
50°-60°	3247.9	22.9
60°-70°	4334.0	30.6
70°-80°	1959.9	13.8
80°-90°	192.0	1.4
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°	14176.0	100.0
0°-180°	14176.0	100.0

**Coefficient of Utilization**



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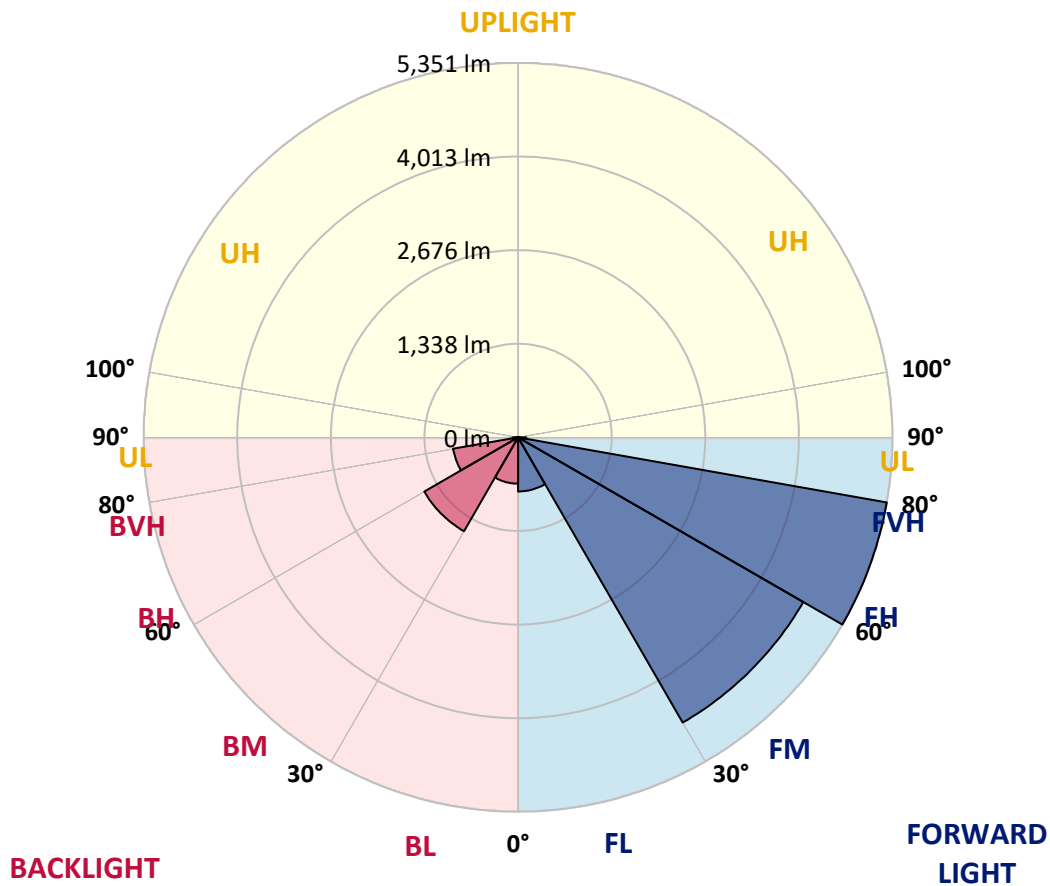
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	773.1	5.5			
FM (30°-60°)	4706.6	33.2			
FH (60°-80°)	5351.3	37.7			G3/7500
FVH (80°-90°)	114.2	0.8			G2/225
BL (0°-30°)	662.3	4.7	B2/1000		
BM (30°-60°)	1548.0	10.9	B2/2500		
BH (60°-80°)	942.6	6.6	B2/1000		G2/1000
BVH (80°-90°)	77.8	0.5			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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3
2.5°	1498.6	1503.7	1502.7	1494.5	1489.3	1480.1	1481.1	1466.8	1445.3	1430.9	1414.5
5°	1630.8	1639.0	1628.7	1615.4	1594.9	1565.2	1562.1	1529.3	1488.3	1459.6	1429.9
7.5°	1745.6	1750.7	1738.4	1715.9	1686.1	1646.2	1639.0	1600.0	1548.8	1503.7	1460.6
10°	1834.8	1840.9	1824.5	1794.8	1755.8	1715.9	1710.7	1670.8	1616.4	1563.1	1508.8
12.5°	1910.6	1912.7	1895.2	1855.3	1813.2	1772.2	1767.1	1730.2	1680.0	1625.7	1566.2
15°	1954.7	1955.7	1934.2	1890.1	1850.1	1814.3	1811.2	1779.4	1733.3	1682.0	1618.5
17.5°	1951.6	1953.7	1938.3	1899.3	1864.5	1843.0	1839.9	1819.4	1783.5	1737.4	1673.8
20°	1913.7	1915.7	1905.5	1879.9	1861.4	1855.3	1856.3	1850.1	1828.6	1790.7	1726.1
22.5°	1884.0	1887.0	1877.8	1859.4	1857.3	1871.7	1874.7	1877.8	1867.6	1833.7	1771.2
25°	1898.3	1903.4	1889.1	1863.5	1867.6	1899.3	1905.5	1915.7	1907.5	1878.8	1824.5
27.5°	1997.7	2000.8	1963.9	1911.6	1899.3	1933.2	1942.4	1958.8	1952.6	1926.0	1884.0
30°	2228.4	2226.3	2147.4	2019.3	1968.0	1981.3	1988.5	2012.1	2014.1	1996.7	1956.7
32.5°	2553.3	2543.1	2421.1	2217.1	2068.5	2035.7	2043.9	2075.6	2099.2	2080.8	2026.4
35°	2896.7	2887.5	2753.2	2514.4	2254.0	2140.2	2131.0	2155.6	2191.5	2140.2	2062.3
37.5°	3223.7	3209.3	3072.0	2776.8	2482.6	2323.7	2310.4	2285.8	2264.2	2165.8	2106.4
40°	3586.5	3570.1	3450.2	3116.0	2734.7	2464.1	2430.3	2332.9	2313.5	2250.9	2221.2
42.5°	3974.0	3974.0	3874.5	3545.5	3039.2	2665.0	2621.0	2474.4	2494.9	2453.9	2419.0
45°	4361.4	4372.7	4293.8	3978.1	3446.1	3044.3	2973.6	2765.5	2814.7	2796.2	2778.8
47.5°	4691.5	4713.0	4697.6	4419.8	3944.2	3505.5	3397.9	3181.6	3287.2	3331.3	3380.5
50°	5047.2	5070.7	5055.4	4945.7	4527.5	4064.2	3967.8	3744.4	3925.8	4058.0	4218.9
52.5°	5575.0	5608.9	5480.7	5438.7	5235.8	4698.7	4612.5	4358.3	4687.4	4906.7	5265.5
55°	6020.9	6019.9	5974.8	6071.1	5996.3	5474.6	5379.3	5148.6	5568.9	5801.6	6326.4
57.5°	6228.0	6252.6	6407.3	6680.0	6829.6	6422.7	6331.5	6095.7	6515.0	6635.9	7202.8
60°	6334.6	6365.3	6664.6	7203.8	7606.6	7458.0	7422.1	7121.8	7357.5	7343.2	7941.8
62.5°	6184.9	6246.4	6727.1	7443.6	8161.1	8498.4	8487.1	8033.0	8074.0	7933.6	8400.0
65°	5498.2	5564.8	6319.2	7323.7	8477.9	9289.7	9292.8	8858.1	8624.4	8220.6	8323.1
67.5°	3931.9	4027.3	4960.0	6552.9	8366.1	9717.1	9753.0	9232.3	8753.6	7966.4	7515.4
70°	2143.3	2213.0	2943.8	4763.2	7359.6	9614.6	9681.2	9051.9	8183.7	6891.1	5785.2
72.5°	973.8	996.3	1369.4	2613.8	5027.7	8275.9	8554.7	8078.1	6721.0	5090.2	3678.8
75°	445.9	456.1	596.6	1250.5	2627.1	5538.1	5733.9	6016.8	4677.1	3214.4	1917.8
77.5°	279.8	282.9	339.3	572.0	1310.0	2764.5	2970.5	3582.4	2738.8	1590.8	801.6
80°	165.0	168.1	211.2	309.6	615.0	1264.9	1460.6	1416.6	1287.4	686.8	364.9
82.5°	83.0	86.1	122.0	176.3	335.2	503.3	592.5	595.5	479.7	372.1	206.0
85°	29.7	30.8	40.0	69.7	142.5	166.1	185.5	226.5	234.7	216.3	99.4
87.5°	0.0	0.0	1.0	2.1	4.1	16.4	17.4	32.8	68.7	76.9	40.0
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°	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3	1405.3
2.5°	1409.4	1394.0	1388.9	1383.8	1375.6	1372.5	1366.3	1360.2	1360.2	1354.0	1351.0
5°	1416.6	1396.1	1382.7	1376.6	1371.5	1374.5	1374.5	1376.6	1383.8	1379.7	1381.7
7.5°	1442.2	1418.6	1400.2	1395.0	1395.0	1407.3	1415.5	1425.8	1439.1	1441.2	1441.2
10°	1487.3	1459.6	1440.1	1437.1	1442.2	1459.6	1471.9	1484.2	1500.6	1501.6	1503.7
12.5°	1536.5	1508.8	1489.3	1493.4	1498.6	1521.1	1534.4	1544.7	1561.1	1561.1	1560.1
15°	1587.7	1557.0	1540.6	1548.8	1564.2	1589.8	1591.8	1592.9	1601.1	1599.0	1598.0
17.5°	1641.0	1608.2	1595.9	1608.2	1624.6	1636.9	1626.7	1612.3	1609.3	1605.2	1603.1
20°	1693.3	1659.5	1654.4	1663.6	1668.7	1658.5	1626.7	1600.0	1587.7	1581.6	1579.5
22.5°	1738.4	1709.7	1706.6	1706.6	1681.0	1645.1	1598.0	1562.1	1545.7	1537.5	1535.5
25°	1791.7	1765.1	1759.9	1732.3	1666.7	1601.1	1537.5	1504.7	1491.4	1487.3	1488.3
27.5°	1854.2	1835.8	1819.4	1740.5	1625.7	1523.2	1451.4	1437.1	1431.9	1437.1	1440.1
30°	1931.1	1912.7	1875.8	1730.2	1560.1	1421.7	1353.0	1352.0	1367.4	1380.7	1382.7
32.5°	1993.6	1985.4	1925.0	1697.4	1467.8	1310.0	1251.5	1255.6	1283.3	1301.8	1304.8
35°	2042.8	2056.2	1966.0	1643.1	1358.1	1204.4	1158.3	1160.3	1175.7	1201.3	1202.3
37.5°	2112.5	2157.6	2002.9	1560.1	1232.1	1113.2	1071.1	1055.8	1053.7	1060.9	1062.9
40°	2253.0	2320.6	2029.5	1439.1	1110.1	1031.2	984.0	954.3	928.7	909.2	903.0
42.5°	2465.2	2543.1	2044.9	1292.5	1001.4	950.2	896.9	859.0	813.9	772.9	758.5
45°	2854.7	2880.3	2044.9	1136.7	905.1	874.3	821.0	775.9	718.5	670.4	660.1
47.5°	3477.9	3395.9	2046.9	986.1	820.0	807.7	761.6	710.3	646.8	606.8	600.7
50°	4416.8	4128.7	2089.0	861.0	749.3	751.3	717.5	661.1	603.7	574.0	568.9
52.5°	5480.7	5031.8	2201.7	768.8	689.8	705.2	686.8	632.4	581.2	555.6	550.4
55°	6481.1	5862.0	2298.1	703.2	639.6	666.3	665.2	615.0	568.9	543.3	540.2
57.5°	7331.9	6430.9	2283.7	649.9	596.6	630.4	645.8	603.7	560.7	539.2	536.1
60°	7860.8	6732.3	2079.7	600.7	563.8	604.8	634.5	600.7	564.8	559.7	560.7
62.5°	8090.4	6676.9	1688.2	563.8	542.2	592.5	646.8	622.2	602.7	615.0	622.2
65°	7733.7	6201.3	1242.3	536.1	521.7	595.5	675.5	656.0	602.7	610.9	614.0
67.5°	6743.5	5278.8	897.9	508.4	496.1	604.8	716.5	650.9	567.9	567.9	561.7
70°	4859.6	3796.6	651.9	480.7	470.5	591.4	718.5	616.0	527.9	524.8	509.4
72.5°	2924.4	2239.6	508.4	450.0	431.5	524.8	673.4	575.0	488.9	463.3	444.9
75°	1519.1	1122.4	426.4	416.2	370.0	444.9	616.0	511.5	418.2	395.7	385.4
77.5°	650.9	524.8	365.9	371.1	307.5	374.1	497.1	442.8	371.1	342.4	333.1
80°	320.8	298.3	289.1	297.3	246.0	289.1	428.5	387.5	314.7	281.9	268.6
82.5°	183.5	174.3	208.1	211.2	175.3	241.9	361.8	328.0	260.4	224.5	203.0
85°	85.1	91.2	126.1	127.1	108.7	166.1	236.8	184.5	138.4	114.8	109.7
87.5°	33.8	40.0	55.4	54.3	31.8	30.8	20.5	11.3	9.2	8.2	7.2
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)