

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: P631432

Luminaire Tested: GWS-SA1F-760-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

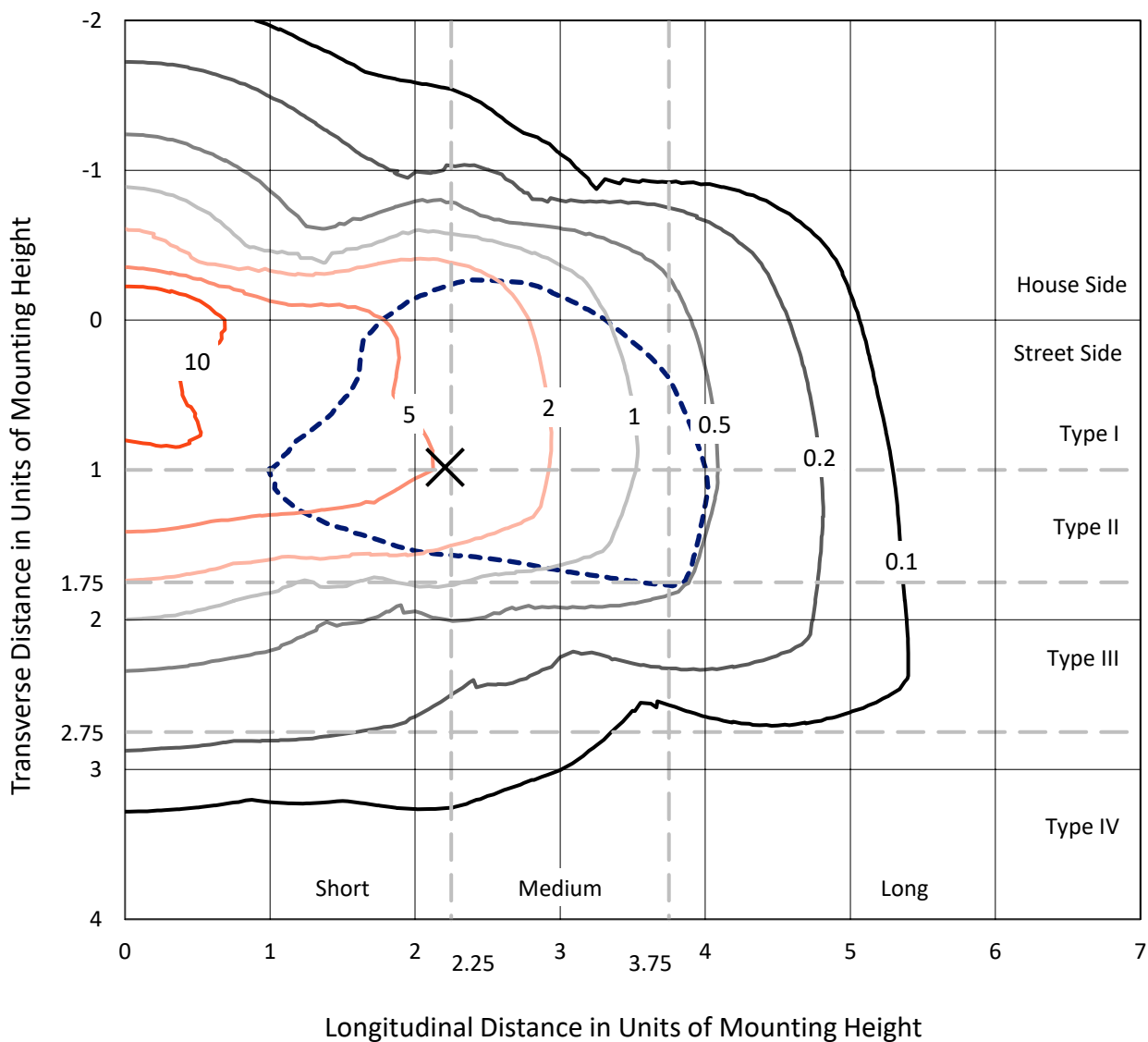
Lumens per Lamp: N/A  
Luminaire Lumens: 8352.7 lumens  
Efficiency: N/A  
Efficacy: 124.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

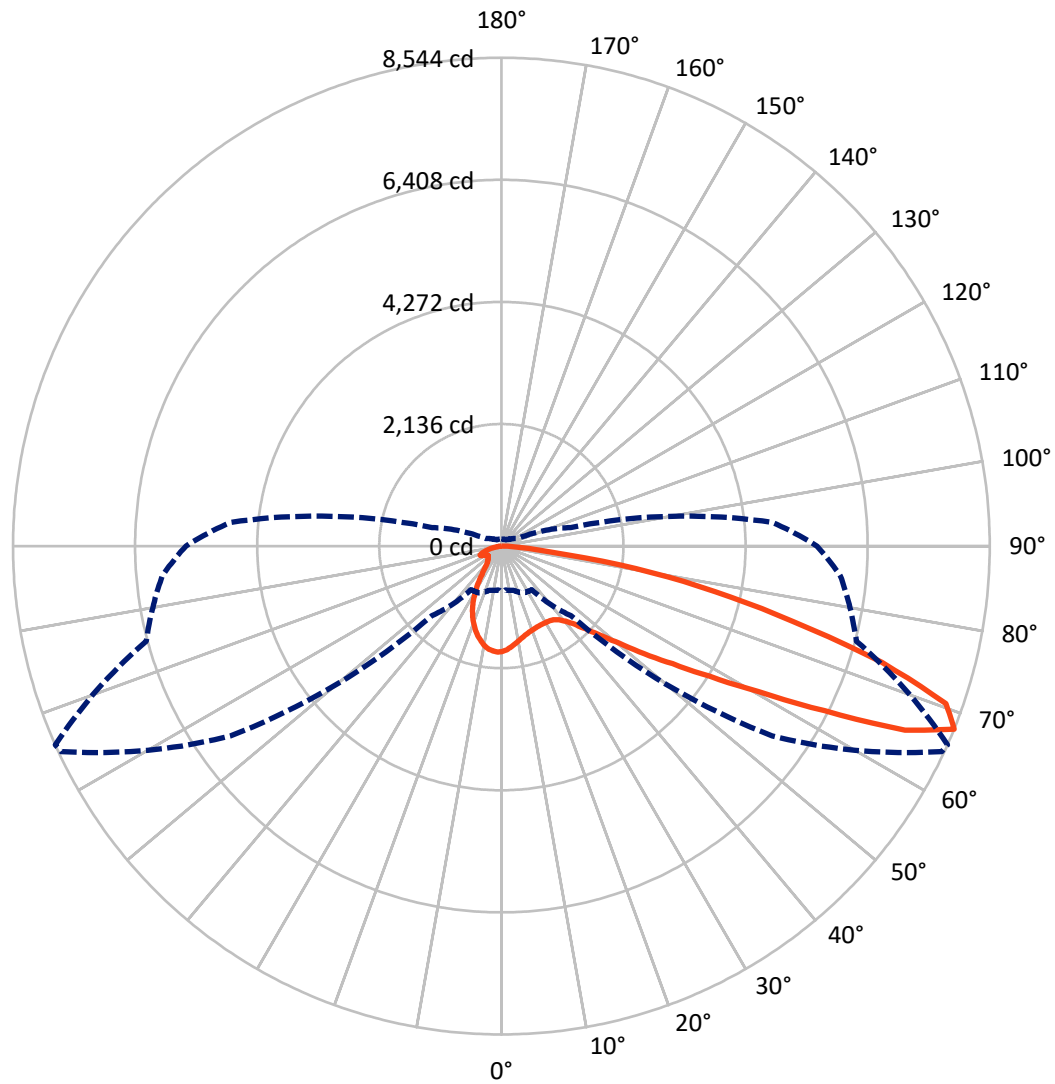
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1695.0	0.0	1695.0
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	6657.7	0.0	6657.7
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	8352.7	0.0	8352.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	162.0	1.9
10°-20°	398.1	4.8
20°-30°	547.2	6.6
30°-40°	748.1	9.0
40°-50°	1133.6	13.6
50°-60°	1762.2	21.1
60°-70°	2145.4	25.7
70°-80°	1306.9	15.6
80°-90°	149.3	1.8
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°	8352.7	100.0
0°-180°	8352.7	100.0

**Coefficient of Utilization**



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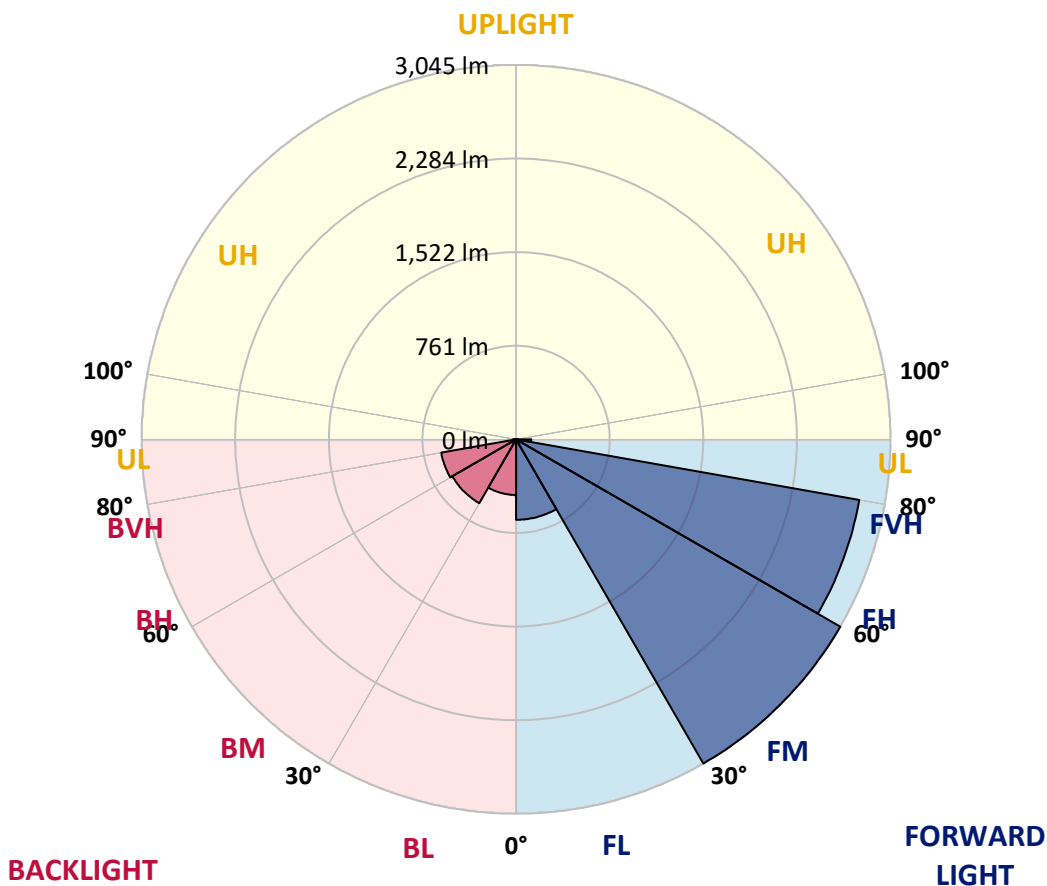
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	654.5	7.8			
FM (30°-60°)	3044.9	36.5			
FH (60°-80°)	2834.3	33.9			G2/5000
FVH (80°-90°)	124.1	1.5			G2/225
BL (0°-30°)	452.8	5.4	B1/500		
BM (30°-60°)	599.0	7.2	B1/1000		
BH (60°-80°)	618.0	7.4	B2/1000		G2/1000
BVH (80°-90°)	25.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7
2.5°	1728.7	1734.8	1731.2	1754.3	1755.5	1784.8	1801.2	1815.2	1816.5	1834.7	1846.9
5°	1610.5	1614.2	1614.2	1636.1	1650.7	1689.7	1727.5	1767.7	1770.8	1814.6	1848.1
7.5°	1514.8	1518.5	1516.1	1545.3	1564.2	1607.5	1655.6	1717.1	1723.2	1793.9	1852.4
10°	1439.9	1438.7	1444.8	1471.6	1495.9	1547.7	1601.4	1671.4	1680.6	1770.2	1857.3
12.5°	1388.7	1389.9	1393.6	1421.6	1447.8	1499.0	1554.4	1630.6	1640.4	1742.7	1854.8
15°	1364.3	1361.9	1364.9	1390.5	1415.5	1460.6	1517.9	1596.5	1606.2	1718.4	1855.5
17.5°	1358.8	1357.0	1356.4	1374.7	1393.6	1435.6	1490.5	1570.3	1580.6	1702.5	1859.1
20°	1375.9	1373.5	1366.8	1374.7	1382.6	1417.9	1471.0	1551.4	1563.0	1692.2	1866.4
22.5°	1422.8	1418.6	1408.2	1398.4	1388.1	1409.4	1458.8	1537.4	1549.0	1685.5	1873.7
25°	1494.1	1490.5	1479.5	1457.6	1419.8	1416.1	1456.3	1531.3	1542.9	1680.6	1876.8
27.5°	1592.2	1586.7	1575.8	1544.1	1482.5	1441.1	1465.5	1530.7	1541.6	1675.1	1873.7
30°	1708.6	1705.0	1698.9	1660.5	1578.2	1494.1	1486.2	1535.6	1544.1	1672.0	1867.6
32.5°	1826.8	1823.2	1828.0	1809.8	1708.6	1581.9	1531.3	1549.0	1555.1	1671.4	1862.2
35°	1931.0	1935.3	1970.6	1973.7	1874.3	1700.7	1602.6	1580.0	1581.3	1683.6	1864.6
37.5°	2040.1	2056.5	2102.9	2142.5	2059.6	1857.9	1708.6	1638.5	1637.3	1714.7	1879.8
40°	2184.5	2191.8	2250.9	2325.3	2273.5	2073.6	1859.1	1734.2	1725.7	1778.1	1920.7
42.5°	2325.3	2342.9	2437.4	2522.7	2505.6	2316.7	2048.6	1877.4	1862.2	1890.2	2004.7
45°	2504.4	2521.5	2627.5	2737.2	2768.3	2591.5	2291.1	2080.9	2065.7	2059.0	2158.9
47.5°	2683.6	2701.2	2796.3	2954.7	3063.8	2935.2	2606.8	2349.6	2324.7	2298.5	2391.7
50°	2804.2	2824.9	2915.7	3105.8	3361.8	3364.2	2980.9	2701.8	2670.2	2628.7	2719.5
52.5°	2799.9	2813.4	2899.9	3119.2	3576.3	3857.2	3481.8	3150.3	3124.7	3034.5	3113.8
55°	2580.0	2600.1	2687.2	2961.4	3599.4	4324.5	4217.9	3679.2	3633.5	3472.1	3559.2
57.5°	2138.2	2155.3	2243.0	2581.2	3394.1	4564.0	5152.6	4353.2	4290.4	3948.6	4049.1
60°	1614.2	1593.4	1634.9	1931.0	2902.9	4570.1	5977.7	5267.2	5162.4	4458.0	4542.1
62.5°	1211.4	1190.7	1199.8	1283.3	1968.2	4200.8	6448.1	6517.6	6344.5	5033.2	5016.7
65°	957.3	945.7	971.9	1029.2	1147.4	3199.1	6451.8	7869.7	7760.6	5699.8	5503.6
67.5°	780.0	772.7	799.5	905.5	930.5	1719.0	5785.1	8501.0	8543.6	6429.8	5955.1
70°	628.2	617.3	659.3	798.9	865.3	1040.2	4144.2	8179.3	8248.1	6864.9	5827.8
72.5°	433.9	434.5	455.8	647.1	835.4	898.2	2344.2	6810.7	6960.0	6470.6	5123.4
75°	292.5	294.9	301.0	427.2	769.6	871.4	1249.2	5156.3	5261.7	5348.2	4235.0
77.5°	176.7	177.9	191.9	258.4	530.7	813.5	846.4	3737.7	3820.6	3525.7	2625.1
80°	102.4	106.6	119.4	173.1	358.3	611.2	655.0	2291.8	2385.6	1567.2	834.2
82.5°	45.1	48.1	65.2	100.5	209.0	519.8	511.2	905.5	892.1	436.9	289.4
85°	7.9	9.7	14.0	31.7	76.8	274.2	396.7	399.7	376.0	165.7	120.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.8	59.7	107.2	106.6	46.9	41.4
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°	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7	1845.7
2.5°	1854.8	1838.4	1853.0	1854.8	1851.8	1849.4	1831.1	1815.2	1813.4	1796.4	1796.4
5°	1861.6	1846.3	1853.6	1839.6	1817.7	1795.1	1756.1	1729.3	1717.1	1695.2	1695.2
7.5°	1870.7	1854.8	1846.3	1811.6	1760.4	1711.0	1648.3	1595.9	1574.6	1543.5	1542.3
10°	1879.2	1859.1	1829.9	1762.2	1680.6	1602.0	1510.6	1436.2	1385.7	1348.5	1348.5
12.5°	1878.6	1852.4	1794.5	1694.6	1581.9	1467.9	1346.0	1233.9	1166.9	1109.0	1105.4
15°	1877.4	1841.4	1749.4	1616.0	1466.7	1308.9	1143.1	996.9	897.6	840.9	836.0
17.5°	1876.2	1827.4	1698.9	1526.4	1326.5	1111.4	892.7	734.3	651.4	616.7	617.9
20°	1876.2	1811.6	1644.6	1423.4	1165.1	875.0	655.0	539.9	519.2	521.0	522.8
22.5°	1870.7	1792.1	1584.3	1311.3	985.3	643.5	483.2	444.2	455.2	472.2	474.7
25°	1857.9	1759.8	1514.2	1187.0	771.4	468.6	394.2	386.9	407.0	428.4	434.5
27.5°	1837.8	1722.6	1435.6	1041.4	567.9	376.6	346.7	346.1	362.0	377.8	383.3
30°	1816.5	1681.2	1352.7	879.3	411.3	327.8	316.3	316.3	324.2	333.9	332.7
32.5°	1791.5	1639.1	1263.8	710.5	335.1	300.4	296.8	294.9	296.1	299.8	299.8
35°	1770.2	1602.0	1172.4	532.0	300.4	285.2	281.5	277.3	275.4	273.0	274.2
37.5°	1762.2	1572.7	1077.9	400.9	283.3	274.2	268.1	262.0	257.8	256.5	255.9
40°	1775.0	1560.5	983.5	330.3	271.2	262.6	255.9	248.0	244.3	244.3	244.3
42.5°	1825.0	1569.7	887.2	298.6	262.6	252.9	243.1	235.8	234.6	235.8	236.4
45°	1916.4	1605.0	787.3	282.7	255.3	243.1	231.6	226.1	226.1	227.3	227.3
47.5°	2079.7	1697.6	688.6	273.0	248.0	235.2	223.0	217.5	216.9	218.1	218.1
50°	2362.4	1864.6	599.6	266.3	242.5	229.1	216.9	209.6	207.8	207.2	207.2
52.5°	2718.9	2154.0	542.9	261.4	235.8	222.4	210.2	200.5	196.8	195.0	195.0
55°	3149.7	2539.8	542.9	257.8	227.3	214.5	200.5	190.7	185.2	182.8	182.8
57.5°	3637.8	2988.8	636.8	254.7	220.6	205.3	190.1	180.4	174.3	170.6	170.6
60°	4134.4	3463.5	868.9	250.4	214.5	193.8	178.5	169.4	161.5	157.2	156.6
62.5°	4649.3	3986.3	1174.8	252.9	210.2	182.8	166.4	156.0	149.3	145.0	144.4
65°	5120.9	4484.2	1442.3	271.8	210.8	173.1	152.3	143.2	137.7	132.2	131.6
67.5°	5521.3	4759.0	1254.6	310.2	223.6	161.5	138.3	129.2	124.3	120.7	120.0
70°	5241.0	4339.8	711.7	333.9	241.3	149.3	122.5	116.4	111.5	109.1	108.5
72.5°	4481.7	3674.4	475.9	294.9	220.0	133.4	107.9	103.0	99.3	96.3	95.7
75°	3630.5	2913.9	363.8	241.9	171.2	108.5	92.6	89.0	85.3	82.3	81.7
77.5°	2147.9	1683.6	268.1	191.3	120.7	84.7	76.8	73.7	70.1	67.6	67.0
80°	685.5	585.0	170.0	131.6	79.8	65.2	59.1	56.7	53.0	50.0	49.4
82.5°	261.4	226.1	90.2	67.0	53.0	44.5	39.6	37.2	34.7	31.7	31.1
85°	115.8	108.5	50.0	36.0	28.6	21.9	19.5	18.3	15.2	12.8	12.2
87.5°	40.8	40.8	21.3	10.4	6.1	3.0	1.8	0.6	0.0	0.0	0.0
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)