

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: P631821

Luminaire Tested: GWS-SA2B-740-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631821  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2B-740-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

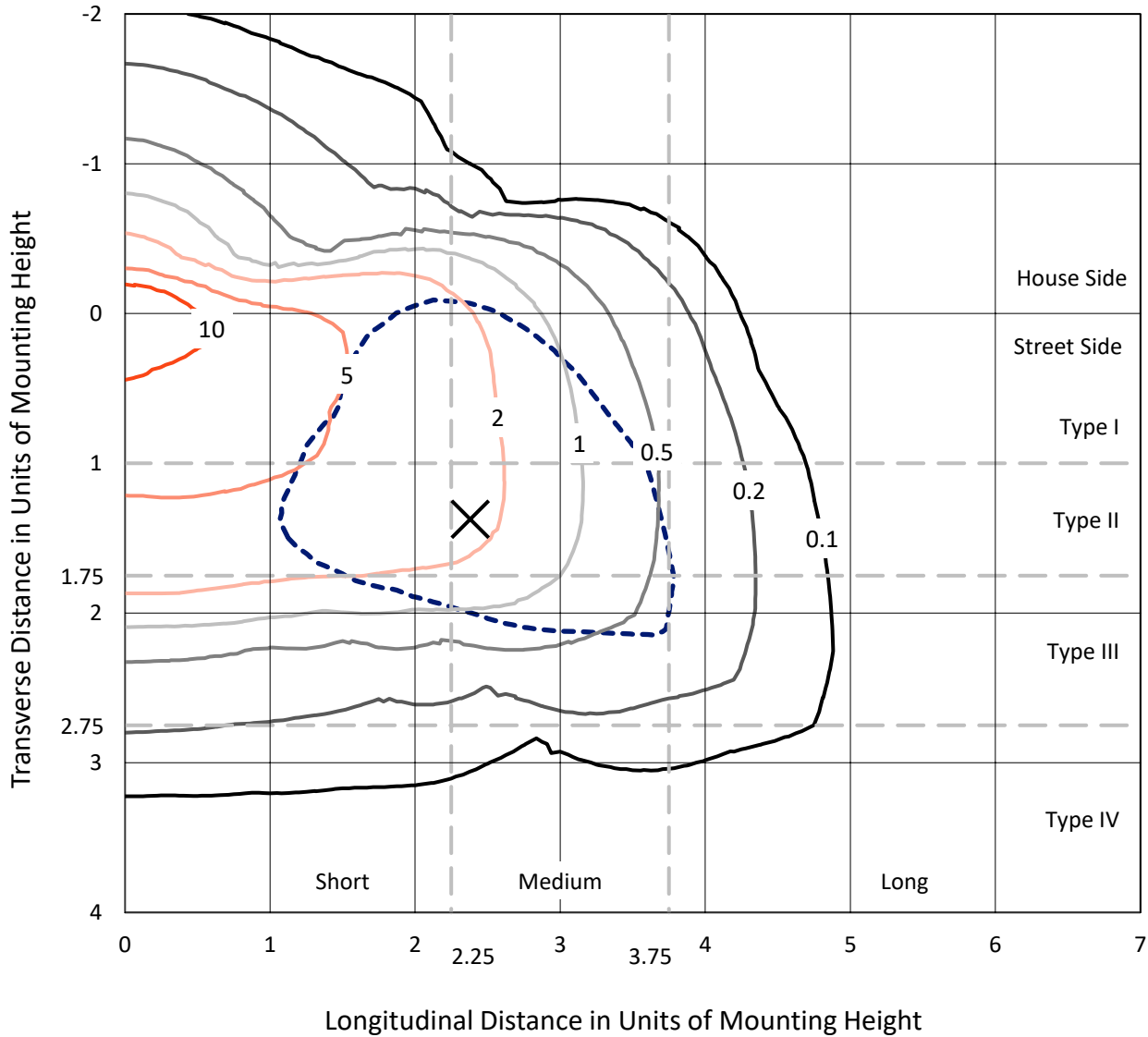
Lumens per Lamp: N/A  
Luminaire Lumens: 6761.9 lumens  
Efficiency: N/A  
Efficacy: 145.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 46.4  
Input Voltage (V): 120  
Input Current (Ain): 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

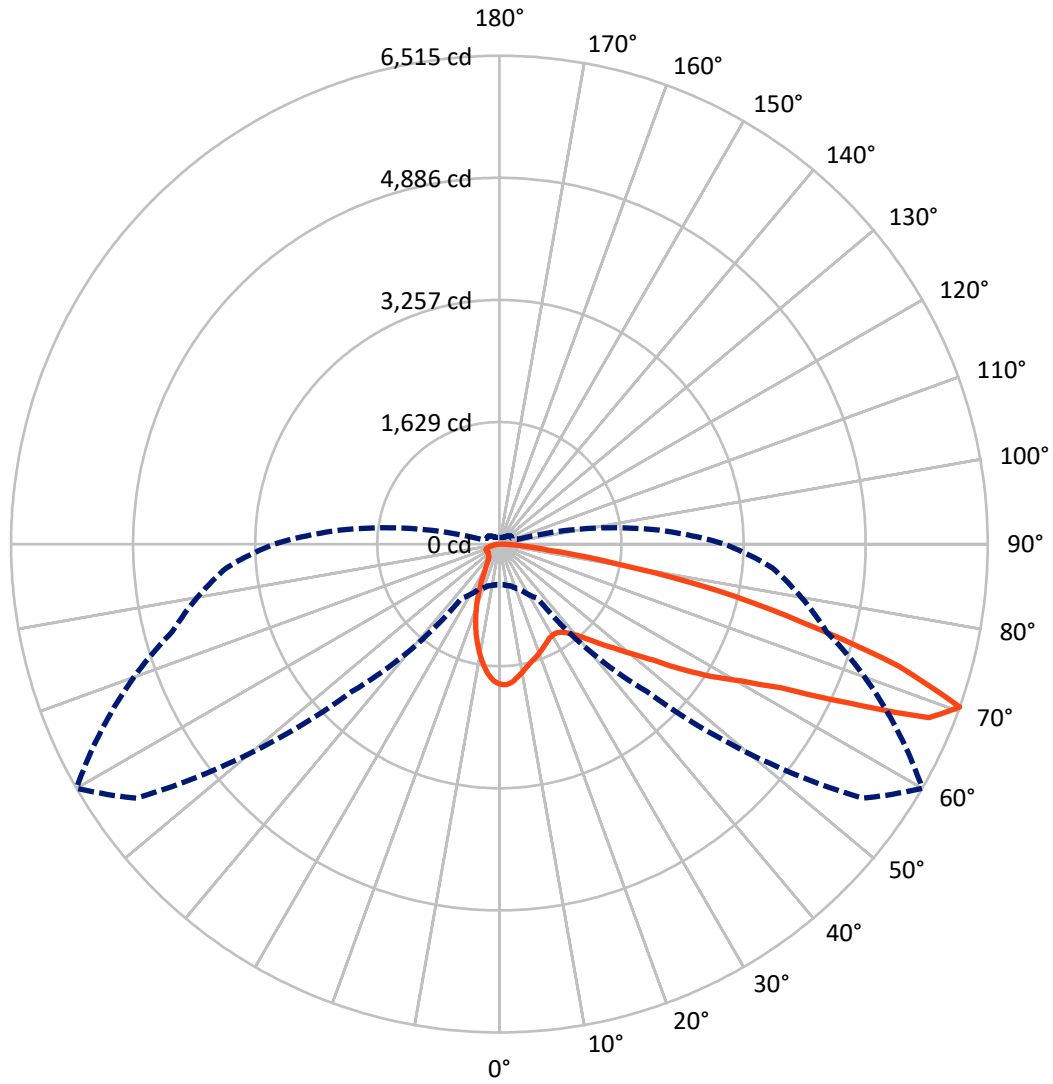
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1156.4	0.0	1156.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	5605.5	0.0	5605.5
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	6761.9	0.0	6761.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.3	2.4
10°-20°	361.3	5.3
20°-30°	462.7	6.8
30°-40°	608.1	9.0
40°-50°	882.3	13.0
50°-60°	1376.6	20.4
60°-70°	1802.3	26.7
70°-80°	996.6	14.7
80°-90°	110.6	1.6
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°	6761.9	100.0
0°-180°	6761.9	100.0

**Coefficient of Utilization**



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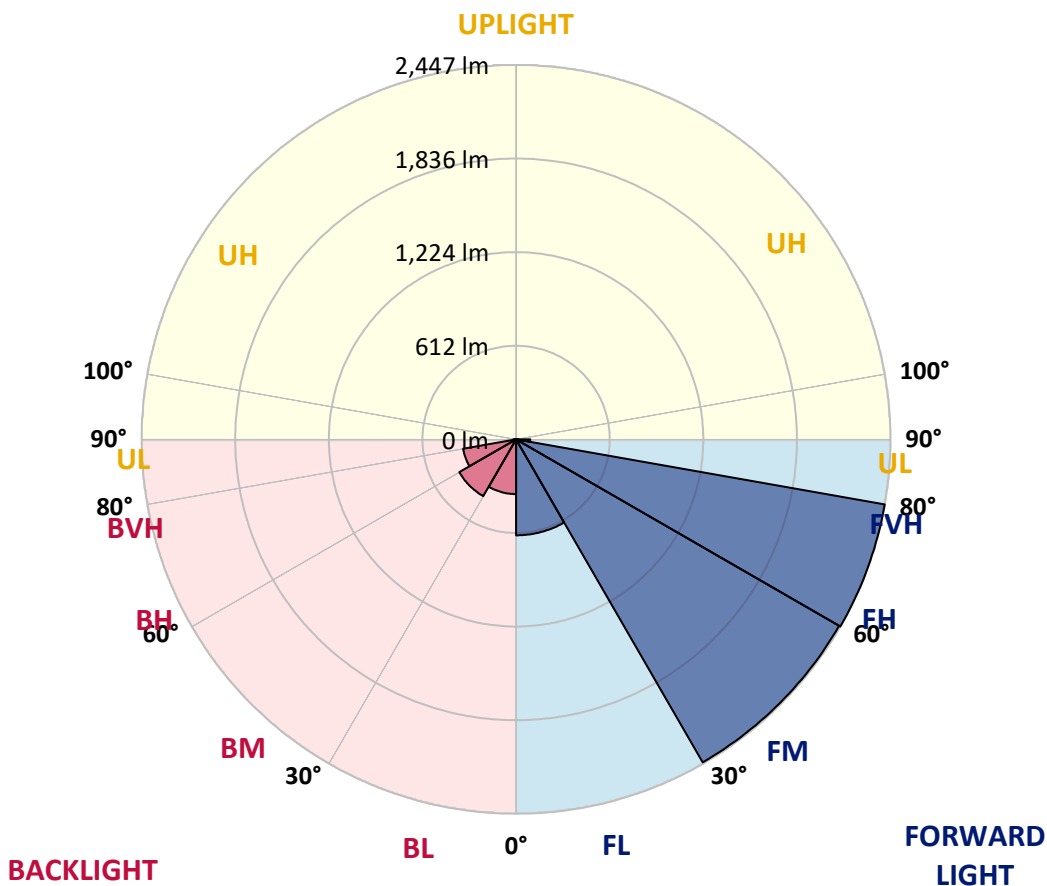
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	627.5	9.3			
FM (30°-60°)	2438.3	36.1			
FH (60°-80°)	2447.4	36.2			G2/5000
FVH (80°-90°)	92.2	1.4			G1/100
BL (0°-30°)	357.8	5.3	B1/500		
BM (30°-60°)	428.8	6.3	B1/1000		
BH (60°-80°)	351.4	5.2	B1/500		G1/500
BVH (80°-90°)	18.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1
2.5°	1844.9	1846.9	1852.3	1860.2	1868.1	1872.1	1882.0	1879.0	1877.0	1873.1	1868.1
5°	1763.3	1767.2	1772.2	1787.5	1804.8	1818.7	1840.9	1843.4	1844.4	1846.4	1838.5
7.5°	1659.4	1660.3	1672.2	1692.5	1715.3	1739.0	1776.1	1786.5	1795.4	1805.3	1798.9
10°	1544.6	1547.1	1556.0	1585.1	1624.2	1659.4	1709.3	1726.6	1745.4	1767.2	1758.3
12.5°	1450.6	1451.1	1465.4	1496.6	1539.1	1586.6	1649.0	1669.7	1694.5	1728.6	1720.7
15°	1375.9	1375.9	1389.2	1415.9	1464.9	1520.8	1595.0	1621.8	1655.4	1701.4	1687.6
17.5°	1316.5	1317.0	1325.4	1353.6	1397.1	1459.0	1547.1	1583.2	1620.3	1681.1	1660.3
20°	1285.3	1282.9	1284.3	1301.7	1338.8	1398.6	1499.1	1541.1	1591.1	1667.3	1635.6
22.5°	1283.8	1279.4	1273.0	1274.4	1296.2	1345.7	1447.6	1498.6	1561.4	1655.9	1610.4
25°	1309.1	1304.1	1292.8	1279.9	1277.9	1307.6	1399.1	1457.0	1530.7	1650.9	1586.1
27.5°	1351.6	1348.2	1333.3	1314.0	1293.7	1292.8	1362.5	1422.9	1508.5	1655.9	1568.8
30°	1408.0	1402.1	1392.7	1368.0	1337.3	1305.6	1348.2	1404.6	1493.6	1671.7	1561.4
32.5°	1471.9	1468.4	1459.5	1434.7	1402.1	1351.6	1359.5	1408.5	1493.6	1699.4	1562.9
35°	1539.6	1539.1	1539.1	1522.8	1486.7	1423.9	1404.6	1442.2	1516.4	1744.0	1578.7
37.5°	1605.4	1604.9	1620.8	1626.7	1585.6	1517.9	1481.3	1509.5	1566.3	1809.8	1617.8
40°	1658.9	1660.8	1695.5	1725.2	1702.4	1639.6	1588.1	1602.5	1647.5	1903.3	1686.1
42.5°	1712.8	1718.2	1770.2	1822.6	1831.5	1777.1	1725.2	1733.6	1763.7	2026.9	1788.0
45°	1771.7	1774.1	1846.9	1920.1	1963.1	1931.0	1888.4	1899.8	1906.7	2179.8	1939.9
47.5°	1828.6	1835.0	1929.0	2029.4	2111.1	2108.1	2084.3	2080.9	2082.4	2365.8	2119.5
50°	1906.2	1915.6	2026.0	2147.2	2266.9	2321.8	2328.7	2302.5	2291.6	2572.6	2343.1
52.5°	2053.7	2053.7	2152.6	2271.8	2432.6	2568.7	2615.2	2572.2	2537.5	2791.3	2580.6
55°	2238.2	2246.1	2324.8	2421.3	2625.1	2828.4	2985.8	2938.3	2840.3	3029.3	2829.4
57.5°	2320.3	2330.2	2454.9	2604.8	2876.9	3123.8	3342.0	3325.1	3182.2	3276.7	3087.7
60°	2171.9	2192.7	2364.4	2615.7	3105.0	3600.2	3754.1	3705.1	3500.8	3536.4	3367.7
62.5°	1811.7	1834.5	2025.0	2375.7	3073.3	4115.2	4403.7	4223.1	3898.5	3864.4	3740.7
65°	1081.0	1080.0	1309.1	1774.1	2683.0	4258.2	5431.7	5094.8	4513.0	4314.6	4124.6
67.5°	687.2	685.7	733.7	940.0	1785.5	3907.9	6092.7	6180.3	5347.6	4645.6	4156.3
70°	542.2	541.7	576.4	670.4	883.1	2780.9	5908.7	6514.7	5851.8	4519.4	3659.6
72.5°	395.3	396.3	449.7	561.5	681.3	1396.2	4784.6	5574.2	5382.3	3989.6	2970.9
75°	284.0	285.5	317.6	429.9	628.3	763.4	3181.7	4191.4	4095.0	3198.0	2043.8
77.5°	180.6	182.6	210.8	301.3	507.6	616.4	1929.0	2959.0	2724.5	1801.8	726.8
80°	110.3	116.8	140.5	224.6	405.7	462.6	964.2	1558.9	1364.5	494.2	244.4
82.5°	56.9	61.8	84.6	139.0	279.5	406.2	545.7	655.0	422.5	206.8	130.1
85°	17.8	20.8	29.7	56.4	133.1	251.8	361.2	325.5	193.9	97.5	60.4
87.5°	4.5	4.5	4.9	4.9	5.4	11.4	69.8	73.7	51.5	30.7	24.7
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°	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1
2.5°	1858.2	1846.4	1841.4	1840.9	1828.6	1810.7	1798.9	1790.5	1785.5	1784.5	1784.5
5°	1825.1	1809.8	1789.5	1774.1	1741.0	1707.3	1679.1	1663.3	1645.0	1642.5	1642.0
7.5°	1781.1	1758.8	1720.2	1677.2	1619.3	1563.4	1515.9	1483.7	1451.6	1445.6	1443.7
10°	1733.6	1703.4	1637.6	1561.9	1475.3	1391.7	1319.0	1262.1	1224.5	1197.8	1192.8
12.5°	1686.6	1646.5	1550.0	1437.2	1318.5	1204.2	1094.9	1001.8	934.6	895.5	888.6
15°	1642.5	1586.6	1454.5	1310.6	1156.2	999.9	845.0	724.3	629.8	596.2	588.2
17.5°	1602.5	1532.7	1362.0	1179.5	987.0	782.7	606.6	499.2	443.8	427.0	423.0
20°	1562.4	1477.3	1268.0	1041.4	807.4	578.4	443.3	392.8	372.0	365.6	363.6
22.5°	1519.3	1416.4	1165.6	905.4	625.8	432.9	362.6	340.4	333.9	334.4	333.9
25°	1476.3	1354.6	1058.2	757.4	466.0	351.3	316.6	308.2	309.7	314.2	315.1
27.5°	1440.7	1299.7	952.9	595.2	364.1	302.3	286.0	285.5	290.9	296.8	297.8
30°	1415.0	1250.7	849.0	457.6	299.8	268.6	262.2	265.2	271.6	276.1	277.5
32.5°	1396.6	1208.6	738.2	359.7	262.7	244.9	241.9	244.9	248.9	253.3	254.3
35°	1390.2	1178.0	629.3	293.4	237.5	227.6	225.6	227.1	229.1	231.5	232.5
37.5°	1404.6	1162.6	515.5	255.3	222.1	216.2	213.2	212.2	212.7	213.7	214.2
40°	1447.1	1169.6	422.5	233.0	212.2	206.8	201.9	199.9	199.4	200.4	199.9
42.5°	1520.3	1198.8	355.2	220.2	204.3	196.4	191.0	189.0	189.0	191.5	191.5
45°	1627.7	1256.1	306.7	210.8	197.4	187.5	181.6	180.6	182.6	186.5	187.0
47.5°	1785.0	1340.2	277.5	203.8	191.0	179.6	173.7	173.2	177.1	183.5	184.0
50°	1971.5	1461.5	261.7	198.9	186.5	173.2	167.2	167.7	172.2	179.1	180.6
52.5°	2196.1	1626.7	262.7	196.9	184.0	169.2	163.3	162.3	166.7	173.7	175.1
55°	2428.2	1827.6	282.0	197.4	180.6	167.2	159.3	155.8	159.8	164.7	165.2
57.5°	2683.5	2054.2	330.0	196.4	176.1	165.2	155.8	147.9	150.4	153.4	154.9
60°	2971.4	2320.8	433.4	198.4	174.1	160.8	148.9	138.5	138.0	140.0	140.5
62.5°	3356.3	2683.5	549.7	201.9	178.6	155.3	138.5	127.6	125.7	126.7	127.1
65°	3650.7	2856.6	513.0	198.9	188.0	151.4	128.6	117.3	113.3	112.3	112.3
67.5°	3531.0	2627.6	357.2	191.0	192.5	151.9	120.7	106.4	101.4	98.9	98.5
70°	3004.6	2134.3	248.4	183.1	187.5	150.9	112.3	97.5	91.0	87.6	87.1
72.5°	2373.8	1629.7	200.9	167.2	170.2	136.1	99.9	87.6	82.1	77.7	77.7
75°	1527.8	994.4	167.7	148.9	139.0	105.9	86.6	78.2	72.7	68.3	68.3
77.5°	514.0	369.1	130.1	126.2	103.9	79.7	72.7	67.3	62.8	58.9	58.4
80°	208.8	175.1	95.5	95.5	72.7	60.9	56.9	54.4	51.5	46.5	46.5
82.5°	121.2	106.4	66.8	57.9	48.5	42.1	39.6	37.1	37.1	33.6	33.6
85°	58.4	58.9	40.1	35.6	27.7	24.2	23.3	21.8	21.3	19.3	18.8
87.5°	31.7	32.2	20.3	15.8	10.9	9.4	7.9	7.4	6.9	6.4	6.4
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)