

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: P631436

Luminaire Tested: GWS-SA1F-760-U-SL3-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631436  
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-SA1F-760-U-SL3-W  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

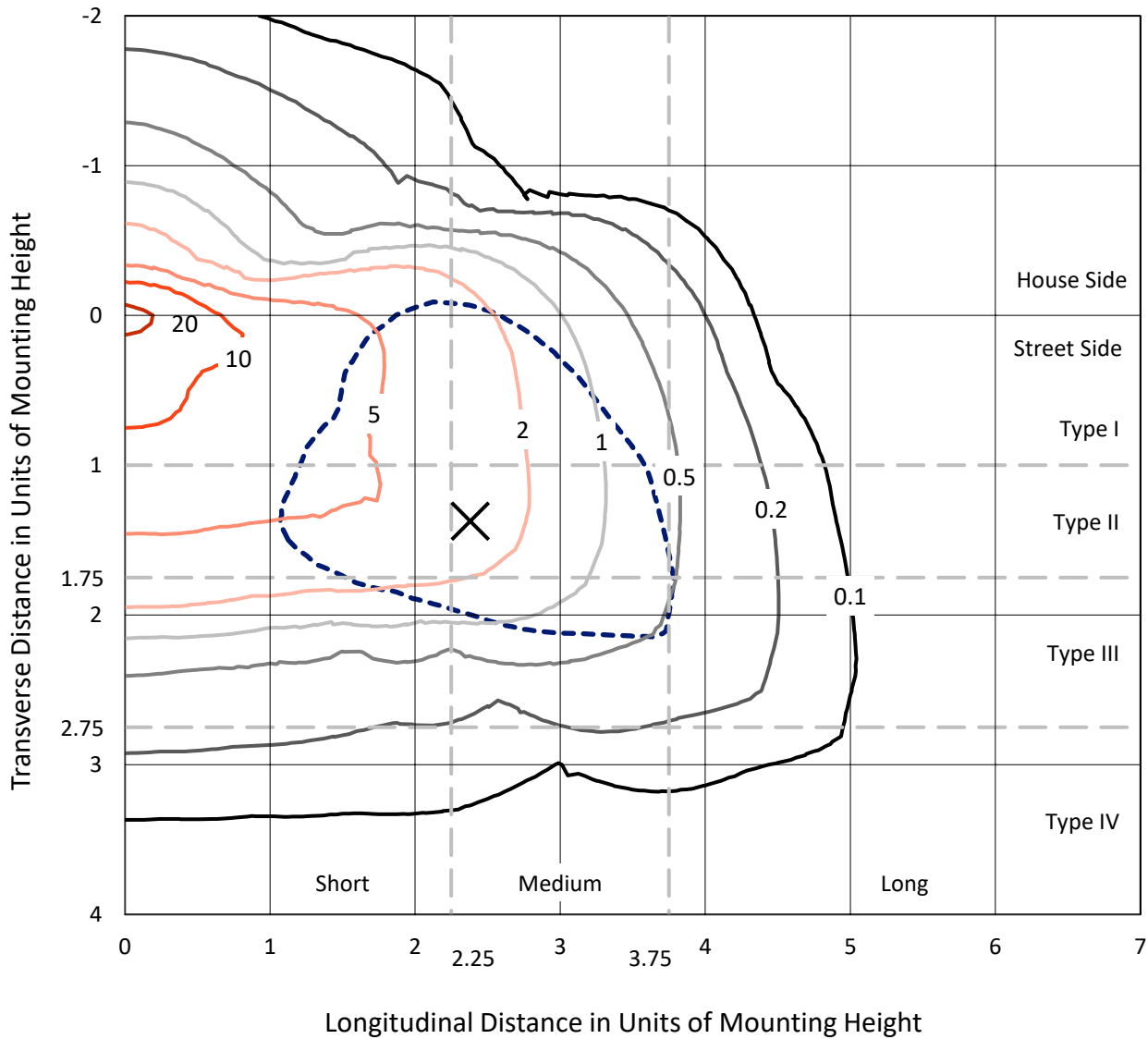
Lumens per Lamp: N/A  
Luminaire Lumens: 8328.3 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

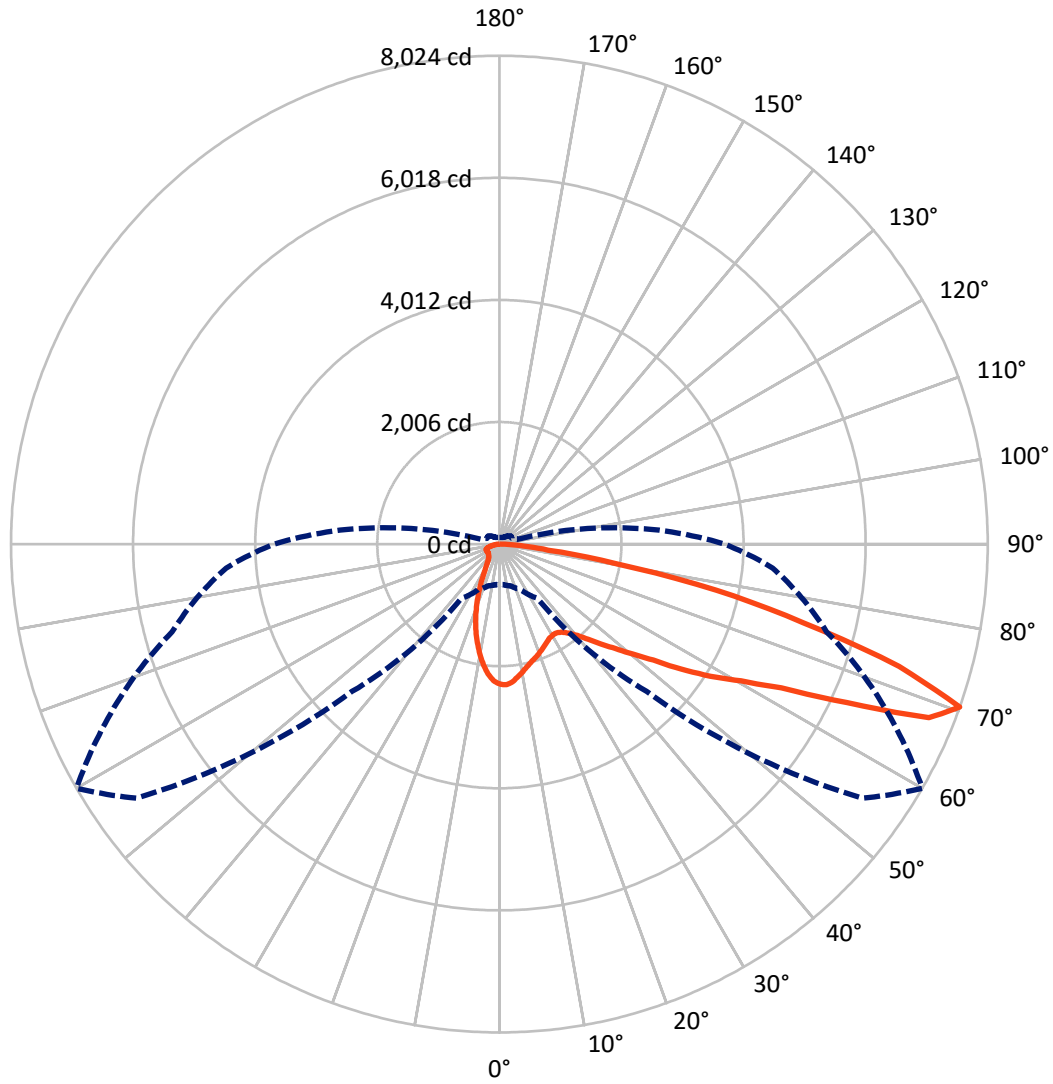
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23 fc  
 Type III - Medium - N/A

REPORT NUMBER: P631436  
CATALOG NUMBER: GWS-SA1F-760-U-SL3-W

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P631436

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1424.3	0.0	1424.3
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	6904.0	0.0	6904.0
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	8328.3	0.0	8328.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	198.6	2.4
10°-20°	445.0	5.3
20°-30°	569.9	6.8
30°-40°	749.0	9.0
40°-50°	1086.7	13.0
50°-60°	1695.5	20.4
60°-70°	2219.8	26.7
70°-80°	1227.5	14.7
80°-90°	136.2	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°	8328.3	100.0
0°-180°	8328.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P631436

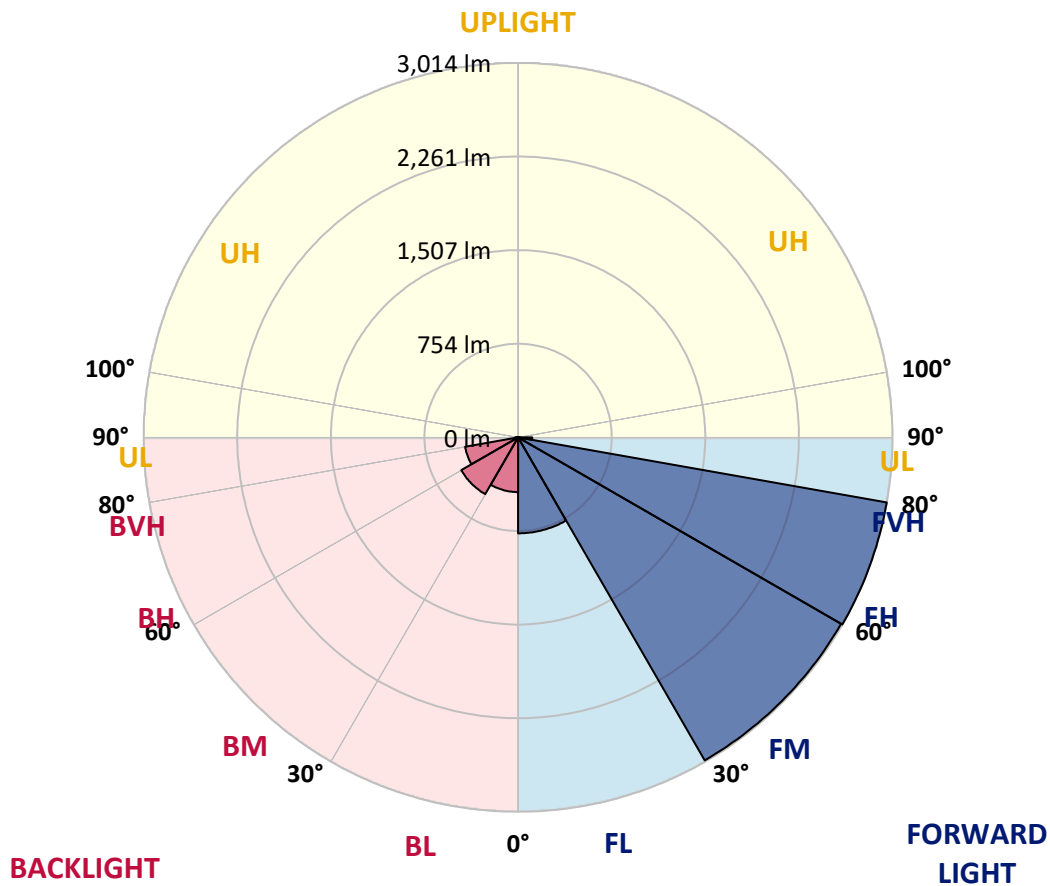
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	772.9	9.3			
FM (30°-60°)	3003.2	36.1			
FH (60°-80°)	3014.4	36.2			G2/5000
FVH (80°-90°)	113.5	1.4			G2/225
BL (0°-30°)	440.7	5.3	B1/500		
BM (30°-60°)	528.1	6.3	B1/1000		
BH (60°-80°)	432.9	5.2	B1/500		G1/500
BVH (80°-90°)	22.7	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°	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5
2.5°	2272.3	2274.7	2281.4	2291.1	2300.9	2305.8	2318.0	2314.3	2311.9	2307.0	2300.9
5°	2171.7	2176.6	2182.7	2201.6	2222.9	2240.0	2267.4	2270.4	2271.6	2274.1	2264.3
7.5°	2043.7	2045.0	2059.6	2084.6	2112.6	2141.9	2187.6	2200.4	2211.3	2223.5	2215.6
10°	1902.4	1905.4	1916.4	1952.3	2000.5	2043.7	2105.3	2126.6	2149.8	2176.6	2165.6
12.5°	1786.6	1787.2	1804.9	1843.3	1895.7	1954.2	2031.0	2056.5	2087.0	2129.1	2119.3
15°	1694.6	1694.6	1711.0	1743.9	1804.3	1873.1	1964.5	1997.4	2038.9	2095.5	2078.5
17.5°	1621.5	1622.1	1632.4	1667.2	1720.8	1797.0	1905.4	1949.9	1995.6	2070.6	2045.0
20°	1583.1	1580.0	1581.9	1603.2	1648.9	1722.6	1846.3	1898.1	1959.7	2053.5	2014.5
22.5°	1581.3	1575.8	1567.8	1569.7	1596.5	1657.4	1782.9	1845.7	1923.1	2039.5	1983.4
25°	1612.3	1606.2	1592.2	1576.4	1573.9	1610.5	1723.2	1794.5	1885.3	2033.4	1953.6
27.5°	1664.7	1660.5	1642.2	1618.4	1593.4	1592.2	1678.1	1752.5	1857.9	2039.5	1932.2
30°	1734.2	1726.9	1715.3	1684.8	1647.1	1608.1	1660.5	1729.9	1839.6	2059.0	1923.1
32.5°	1812.8	1808.5	1797.6	1767.1	1726.9	1664.7	1674.5	1734.8	1839.6	2093.1	1924.9
35°	1896.3	1895.7	1895.7	1875.6	1831.1	1753.7	1729.9	1776.2	1867.6	2147.9	1944.4
37.5°	1977.3	1976.7	1996.2	2003.5	1953.0	1869.5	1824.4	1859.1	1929.2	2229.0	1992.6
40°	2043.1	2045.6	2088.2	2124.8	2096.8	2019.4	1956.0	1973.7	2029.1	2344.2	2076.7
42.5°	2109.6	2116.3	2180.2	2244.8	2255.8	2188.8	2124.8	2135.2	2172.3	2496.5	2202.2
45°	2182.1	2185.1	2274.7	2364.9	2417.9	2378.3	2325.9	2339.9	2348.4	2684.8	2389.2
47.5°	2252.1	2260.1	2375.8	2499.5	2600.1	2596.4	2567.2	2562.9	2564.7	2913.9	2610.4
50°	2347.8	2359.4	2495.3	2644.6	2792.0	2859.7	2868.2	2835.9	2822.5	3168.6	2885.9
52.5°	2529.4	2529.4	2651.3	2798.1	2996.2	3163.7	3221.0	3168.0	3125.3	3437.9	3178.4
55°	2756.7	2766.4	2863.3	2982.1	3233.2	3483.6	3677.4	3618.9	3498.3	3731.0	3484.9
57.5°	2857.8	2870.0	3023.6	3208.2	3543.3	3847.4	4116.1	4095.4	3919.3	4035.7	3802.9
60°	2675.0	2700.6	2912.1	3221.6	3824.3	4434.2	4623.7	4563.4	4311.7	4355.6	4147.8
62.5°	2231.4	2259.5	2494.1	2926.1	3785.3	5068.5	5423.8	5201.4	4801.7	4759.6	4607.3
65°	1331.4	1330.2	1612.3	2185.1	3304.5	5244.6	6690.0	6275.1	5558.5	5314.1	5080.1
67.5°	846.4	844.6	903.7	1157.8	2199.1	4813.2	7504.1	7612.0	6586.4	5721.8	5119.1
70°	667.8	667.2	709.9	825.7	1087.7	3425.1	7277.4	8023.9	7207.4	5566.4	4507.3
72.5°	486.9	488.1	553.9	691.6	839.1	1719.6	5893.0	6865.5	6629.1	4913.8	3659.1
75°	349.8	351.6	391.2	529.5	773.9	940.2	3918.7	5162.4	5043.6	3938.8	2517.2
77.5°	222.4	224.8	259.6	371.1	625.2	759.2	2375.8	3644.5	3355.7	2219.2	895.1
80°	135.9	143.8	173.1	276.6	499.7	569.7	1187.6	1920.1	1680.6	608.7	301.0
82.5°	70.1	76.2	104.2	171.2	344.3	500.3	672.1	806.8	520.4	254.7	160.3
85°	21.9	25.6	36.6	69.5	163.9	310.2	444.8	400.9	238.9	120.0	74.3
87.5°	5.5	5.5	6.1	6.1	6.7	14.0	85.9	90.8	63.4	37.8	30.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P631436  
 CATALOG NUMBER: GWS-SA1F-760-U-SL3-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5	2304.5
2.5°	2288.7	2274.1	2268.0	2267.4	2252.1	2230.2	2215.6	2205.2	2199.1	2197.9	2197.9
5°	2247.9	2229.0	2204.0	2185.1	2144.3	2102.9	2068.1	2048.6	2026.1	2023.0	2022.4
7.5°	2193.6	2166.2	2118.7	2065.7	1994.4	1925.5	1867.0	1827.4	1787.8	1780.5	1778.1
10°	2135.2	2098.0	2016.9	1923.7	1817.1	1714.1	1624.5	1554.4	1508.1	1475.2	1469.1
12.5°	2077.3	2027.9	1909.1	1770.2	1623.9	1483.1	1348.5	1233.9	1151.1	1102.9	1094.4
15°	2023.0	1954.2	1791.5	1614.2	1424.0	1231.5	1040.8	892.1	775.7	734.3	724.5
17.5°	1973.7	1887.8	1677.5	1452.7	1215.6	964.0	747.1	614.8	546.6	525.9	521.0
20°	1924.3	1819.5	1561.8	1282.7	994.5	712.3	546.0	483.8	458.2	450.3	447.9
22.5°	1871.3	1744.6	1435.6	1115.1	770.8	533.2	446.7	419.2	411.3	411.9	411.3
25°	1818.3	1668.4	1303.4	932.9	574.0	432.6	390.0	379.6	381.5	386.9	388.2
27.5°	1774.4	1600.8	1173.6	733.0	448.5	372.3	352.2	351.6	358.3	365.6	366.8
30°	1742.7	1540.4	1045.6	563.6	369.3	330.9	323.0	326.6	334.5	340.0	341.8
32.5°	1720.2	1488.6	909.1	443.0	323.6	301.6	298.0	301.6	306.5	312.0	313.2
35°	1712.3	1450.9	775.1	361.3	292.5	280.3	277.9	279.7	282.1	285.2	286.4
37.5°	1729.9	1432.0	634.9	314.4	273.6	266.3	262.6	261.4	262.0	263.2	263.8
40°	1782.3	1440.5	520.4	287.0	261.4	254.7	248.6	246.2	245.6	246.8	246.2
42.5°	1872.5	1476.4	437.5	271.2	251.7	241.9	235.2	232.8	232.8	235.8	235.8
45°	2004.7	1547.1	377.8	259.6	243.1	230.9	223.6	222.4	224.8	229.7	230.3
47.5°	2198.5	1650.7	341.8	251.1	235.2	221.2	213.9	213.3	218.1	226.1	226.7
50°	2428.2	1800.0	322.3	245.0	229.7	213.3	206.0	206.6	212.1	220.6	222.4
52.5°	2704.9	2003.5	323.6	242.5	226.7	208.4	201.1	199.9	205.3	213.9	215.7
55°	2990.7	2250.9	347.3	243.1	222.4	206.0	196.2	191.9	196.8	202.9	203.5
57.5°	3305.1	2530.0	406.4	241.9	216.9	203.5	191.9	182.2	185.2	188.9	190.7
60°	3659.7	2858.4	533.8	244.3	214.5	198.0	183.4	170.6	170.0	172.4	173.1
62.5°	4133.8	3305.1	677.0	248.6	220.0	191.3	170.6	157.2	154.8	156.0	156.6
65°	4496.4	3518.4	631.9	245.0	231.6	186.5	158.4	144.4	139.5	138.3	138.3
67.5°	4348.9	3236.2	439.9	235.2	237.0	187.1	148.7	131.0	124.9	121.9	121.3
70°	3700.6	2628.7	305.9	225.5	230.9	185.9	138.3	120.0	112.1	107.9	107.2
72.5°	2923.6	2007.2	247.4	206.0	209.6	167.6	123.1	107.9	101.2	95.7	95.7
75°	1881.7	1224.8	206.6	183.4	171.2	130.4	106.6	96.3	89.6	84.1	84.1
77.5°	633.1	454.6	160.3	155.4	128.0	98.1	89.6	82.9	77.4	72.5	71.9
80°	257.1	215.7	117.6	117.6	89.6	74.9	70.1	67.0	63.4	57.3	57.3
82.5°	149.3	131.0	82.3	71.3	59.7	51.8	48.7	45.7	45.7	41.4	41.4
85°	71.9	72.5	49.4	43.9	34.1	29.9	28.6	26.8	26.2	23.8	23.2
87.5°	39.0	39.6	25.0	19.5	13.4	11.6	9.7	9.1	8.5	7.9	7.9
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)