

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: P632893

Luminaire Tested: GWS-SA2D-750-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632893  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2D-750-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

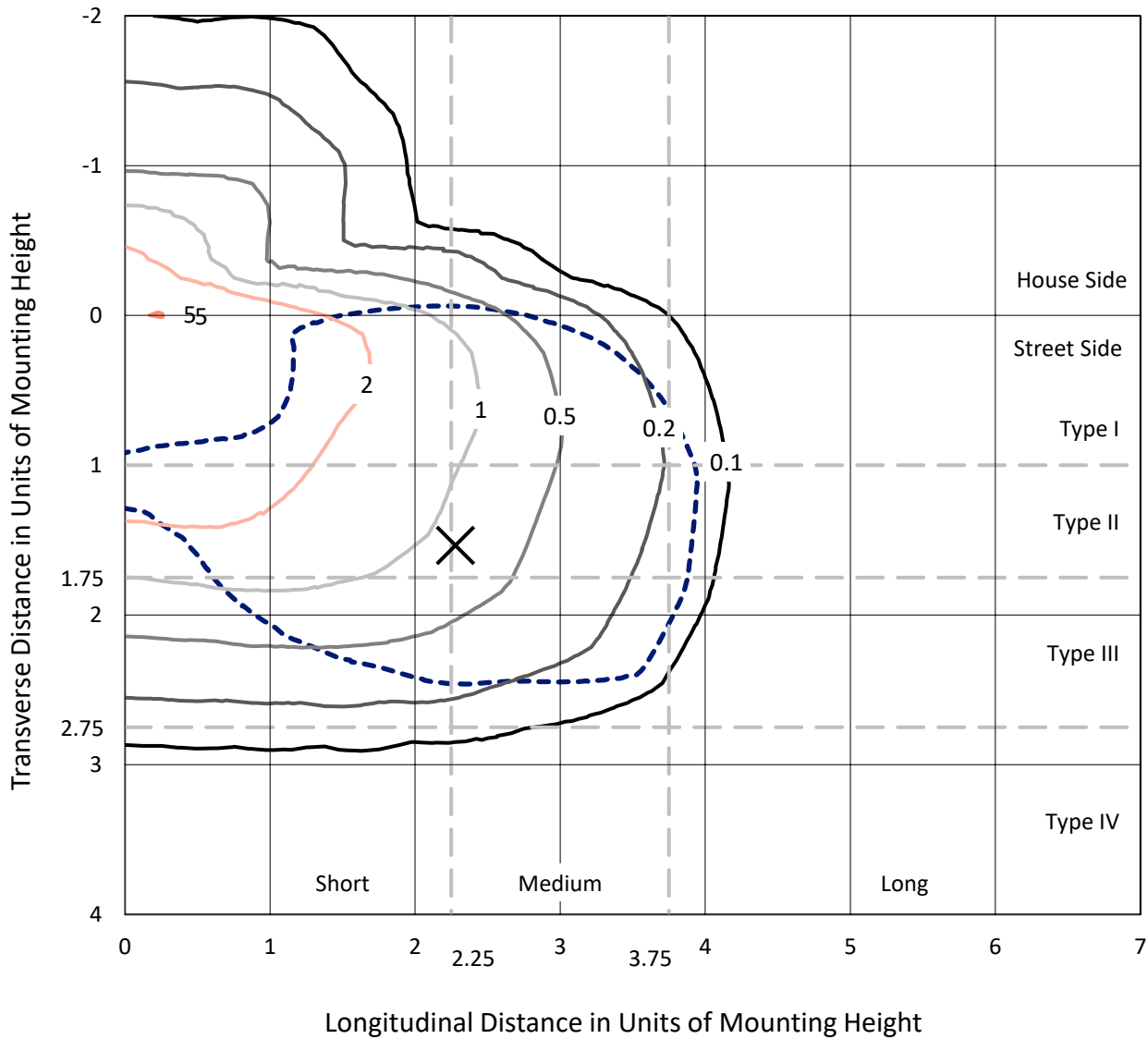
Lumens per Lamp: N/A  
Luminaire Lumens: 12141.9 lumens  
Efficiency: N/A  
Efficacy: 147.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

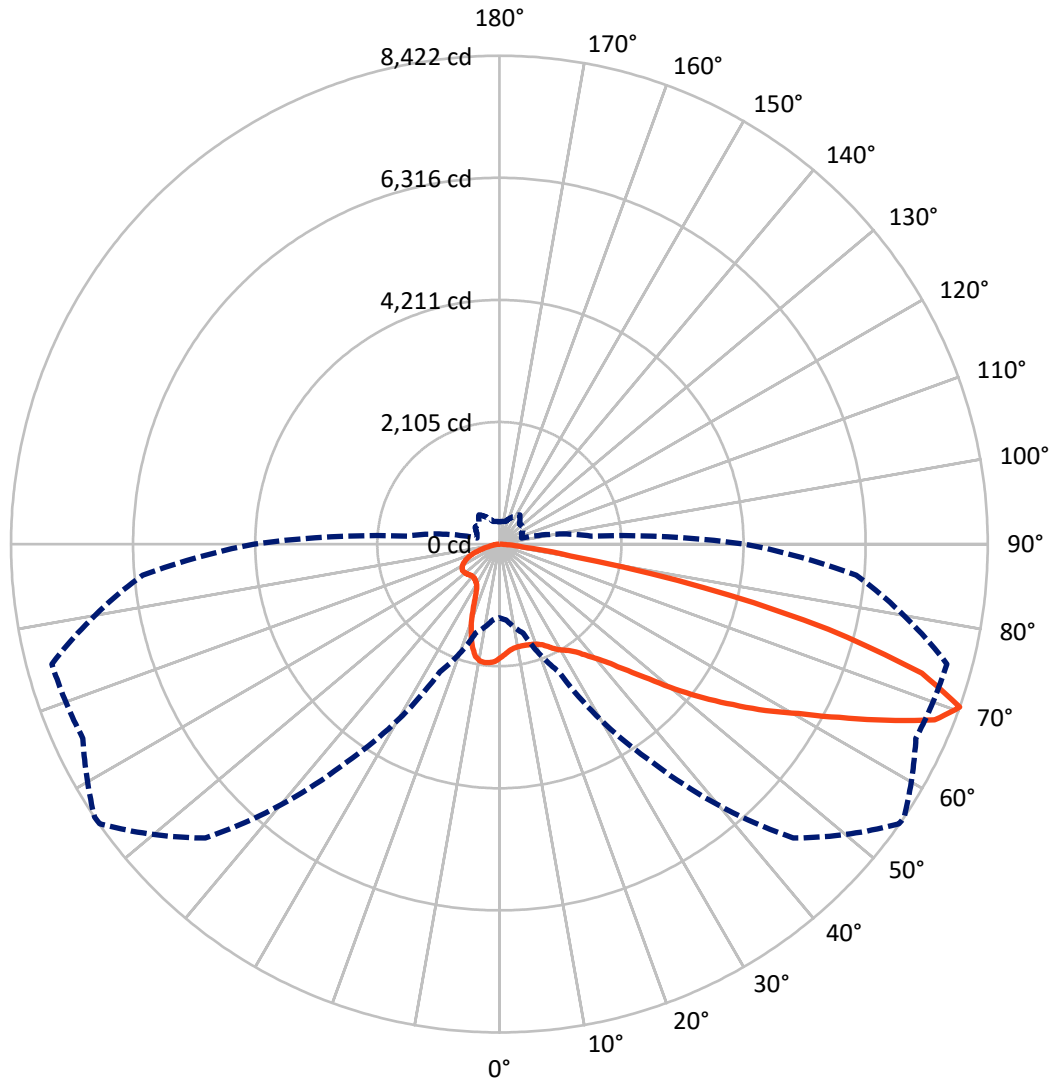
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2334.3	0.0	2334.3
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	9807.6	0.0	9807.6
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	12141.9	0.0	12141.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	181.4	1.5
10°-20°	491.4	4.0
20°-30°	812.4	6.7
30°-40°	1214.7	10.0
40°-50°	1807.7	14.9
50°-60°	2570.0	21.2
60°-70°	3183.0	26.2
70°-80°	1757.5	14.5
80°-90°	123.8	1.0
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°	12141.9	100.0
0°-180°	12141.9	100.0

**Coefficient of Utilization**



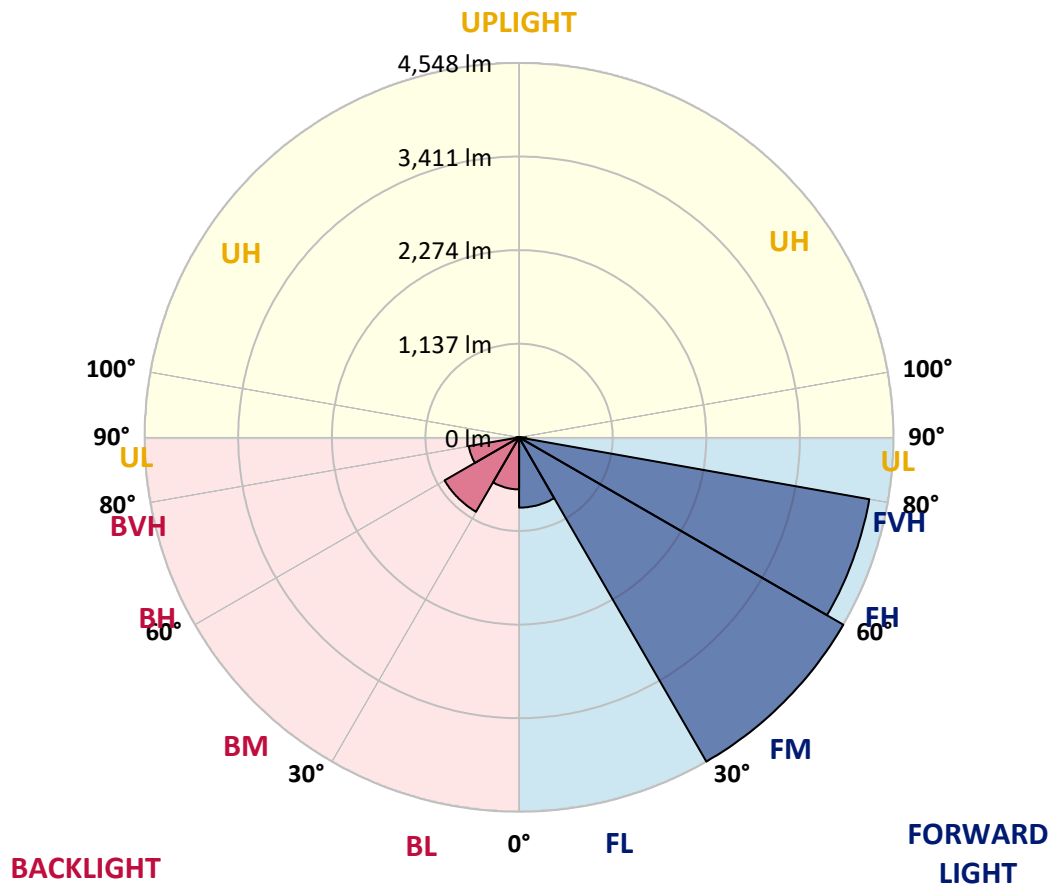
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	853.3	7.0			
FM (30°-60°)	4548.2	37.5			
FH (60°-80°)	4320.1	35.6			G2/5000
FVH (80°-90°)	86.0	0.7			G1/100
BL (0°-30°)	631.9	5.2	B2/1000		
BM (30°-60°)	1044.2	8.6	B2/2500		
BH (60°-80°)	620.4	5.1	B2/1000		G2/1000
BVH (80°-90°)	37.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1834.0	1823.8	1835.7	1841.7	1857.1	1879.4	1899.1	1900.0	1910.2	1935.1	1959.0
5°	1751.0	1745.8	1749.3	1767.2	1783.5	1811.8	1841.7	1844.3	1873.4	1922.2	1970.2
7.5°	1686.8	1679.9	1692.7	1715.9	1736.4	1768.1	1807.5	1810.9	1852.0	1925.6	1999.3
10°	1594.3	1589.1	1613.1	1643.9	1688.5	1740.7	1792.9	1797.2	1851.1	1947.9	2050.6
12.5°	1554.0	1554.0	1564.3	1593.4	1642.2	1711.6	1790.4	1797.2	1864.8	1982.2	2116.6
15°	1616.5	1620.8	1612.3	1610.6	1630.2	1696.2	1793.8	1804.1	1890.5	2017.3	2181.7
17.5°	1742.4	1746.7	1724.4	1689.3	1669.6	1710.7	1806.6	1817.8	1917.9	2055.8	2251.9
20°	1918.8	1923.9	1875.1	1821.2	1753.5	1752.7	1831.5	1841.7	1953.0	2097.7	2326.4
22.5°	2125.1	2128.6	2066.9	1981.3	1877.7	1830.6	1874.3	1884.5	1998.4	2156.0	2406.8
25°	2364.0	2374.3	2299.8	2175.7	2035.2	1937.6	1945.3	1957.3	2079.8	2233.9	2501.9
27.5°	2619.2	2632.0	2546.4	2409.4	2215.9	2055.8	2036.9	2047.2	2166.2	2281.8	2552.4
30°	2880.3	2889.7	2804.1	2647.4	2410.3	2189.4	2114.0	2120.0	2203.9	2304.9	2603.8
32.5°	3170.6	3162.9	3080.7	2900.0	2634.6	2349.5	2185.9	2184.2	2245.9	2351.2	2677.4
35°	3442.9	3454.0	3366.7	3167.2	2881.2	2547.3	2293.8	2287.0	2334.9	2426.5	2781.0
37.5°	3772.5	3769.1	3664.6	3448.9	3128.6	2736.5	2445.4	2433.4	2450.5	2543.8	2925.7
40°	4008.0	4031.9	3964.3	3763.1	3418.0	2969.4	2622.6	2596.1	2600.3	2688.5	3119.2
42.5°	4200.6	4222.9	4229.7	4101.3	3749.4	3257.1	2843.5	2817.0	2819.5	2944.5	3357.2
45°	4348.7	4378.7	4475.5	4437.8	4122.7	3589.3	3142.3	3114.9	3116.6	3255.4	3644.9
47.5°	4409.5	4442.1	4638.1	4728.1	4519.1	3986.6	3513.9	3473.7	3479.7	3632.9	3973.7
50°	4389.8	4433.5	4698.9	4951.5	4851.3	4390.7	3958.3	3930.1	3906.9	4129.6	4330.8
52.5°	4220.3	4268.3	4692.9	5093.7	5122.8	4772.6	4417.2	4401.0	4395.8	4657.0	4729.8
55°	3721.1	3801.6	4486.6	5131.3	5335.1	5132.2	4914.7	4887.3	4913.9	5222.1	5133.0
57.5°	3444.6	3504.5	4082.5	5089.4	5508.9	5474.7	5411.3	5413.9	5443.9	5836.0	5621.9
60°	3287.0	3357.2	3858.1	4974.6	5675.9	5890.8	5931.0	5931.0	5985.0	6497.9	6118.6
62.5°	3078.1	3149.2	3648.4	4753.7	5830.0	6380.6	6584.3	6581.8	6603.2	7207.7	6604.0
65°	2654.3	2720.2	3227.1	4405.3	5905.4	6920.0	7326.7	7319.0	7276.2	7839.6	6925.1
67.5°	1927.4	1989.9	2471.9	3742.5	5633.9	7354.9	8091.3	8094.7	7838.7	8237.7	6942.2
70°	1270.6	1313.4	1589.1	2430.8	4581.6	7167.4	8411.5	8421.8	7925.2	7989.4	6178.5
72.5°	792.9	822.8	992.4	1449.6	2707.4	5673.3	7589.5	7617.8	7129.8	7021.0	5076.5
75°	526.6	547.1	660.1	845.1	1252.7	3070.4	5769.2	5860.0	5714.4	5503.8	3537.0
77.5°	316.8	333.9	420.4	536.9	554.8	1199.6	3367.5	3602.1	3622.7	2873.5	1481.3
80°	144.7	164.4	232.0	306.5	295.4	417.8	1187.6	1242.4	1465.9	912.7	467.5
82.5°	85.6	94.2	154.1	152.4	125.9	202.9	427.3	438.4	372.5	333.9	199.5
85°	34.2	40.2	65.1	57.4	46.2	65.9	161.0	168.7	161.8	145.6	73.6
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	14.6	15.4	22.3	40.2	22.3
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°	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9	1959.9
2.5°	1974.4	1969.3	1995.0	2014.7	2023.2	2031.8	2024.1	2021.5	2021.5	2004.4	1995.9
5°	1995.9	1998.4	2033.5	2049.8	2049.8	2042.9	2022.4	2007.8	2002.7	1980.4	1974.4
7.5°	2036.1	2047.2	2079.8	2078.9	2054.9	2017.3	1965.9	1926.5	1890.5	1875.1	1865.7
10°	2102.0	2116.6	2138.8	2102.9	2036.1	1936.8	1828.0	1742.4	1691.0	1649.9	1649.9
12.5°	2177.4	2191.1	2186.8	2103.7	1965.9	1780.1	1623.4	1524.9	1453.0	1415.3	1415.3
15°	2252.7	2263.8	2217.6	2064.3	1819.5	1572.0	1400.8	1282.6	1220.1	1185.0	1185.0
17.5°	2328.9	2328.1	2230.5	1973.6	1628.5	1341.7	1173.9	1082.3	1060.9	1054.9	1054.0
20°	2402.6	2382.9	2214.2	1822.0	1406.8	1109.7	1003.5	1009.5	1041.2	1054.9	1056.6
22.5°	2485.6	2436.8	2166.2	1628.5	1155.0	948.7	955.5	1005.2	1051.4	1072.0	1074.6
25°	2570.4	2483.0	2085.8	1401.6	944.4	889.6	942.7	998.4	1050.6	1077.1	1079.7
27.5°	2604.6	2483.0	1948.8	1138.8	832.2	864.8	923.0	976.9	1031.7	1062.6	1068.6
30°	2632.9	2461.6	1757.0	901.6	786.0	840.8	891.3	941.0	994.9	1032.6	1039.5
32.5°	2672.3	2442.8	1524.9	757.8	764.6	817.7	852.8	894.8	943.6	968.4	965.8
35°	2718.5	2413.7	1244.9	689.3	746.6	798.0	822.8	847.7	825.4	824.5	827.1
37.5°	2784.4	2388.0	1000.9	658.4	734.6	784.3	804.8	751.8	720.9	708.1	703.0
40°	2879.5	2377.7	789.4	640.5	732.9	783.4	768.9	686.7	644.7	600.2	599.4
42.5°	2999.3	2370.0	652.4	631.9	738.9	803.1	719.2	643.9	557.4	537.7	536.0
45°	3153.5	2358.0	583.9	630.2	753.5	818.5	714.1	584.8	525.7	517.2	517.2
47.5°	3339.3	2339.2	553.1	630.2	769.7	811.7	698.7	572.0	511.2	520.6	526.6
50°	3552.5	2315.2	536.9	628.5	786.0	811.7	666.1	569.4	507.7	556.5	576.2
52.5°	3780.2	2287.8	525.7	621.6	797.1	812.6	667.9	577.9	511.2	565.1	581.4
55°	4031.9	2283.5	510.3	607.1	800.6	790.3	672.1	596.8	516.3	512.0	512.9
57.5°	4349.6	2334.9	499.2	585.7	786.9	744.9	680.7	610.5	510.3	511.2	517.2
60°	4681.8	2431.7	508.6	565.1	758.6	702.1	686.7	603.6	481.2	467.5	469.2
62.5°	4964.4	2505.3	516.3	555.7	717.5	664.4	680.7	588.2	464.9	461.5	469.2
65°	5082.5	2444.5	497.5	536.0	657.6	618.2	667.9	568.5	451.2	438.4	439.2
67.5°	4951.5	2159.4	460.6	492.3	589.9	559.1	647.3	542.8	432.4	417.0	413.6
70°	4229.7	1586.6	397.3	423.0	507.7	489.8	615.6	509.5	402.4	391.3	383.6
72.5°	3408.6	1123.4	329.6	336.5	398.1	412.7	560.8	467.5	368.2	336.5	325.4
75°	2372.6	705.5	274.8	268.0	287.7	315.1	437.5	387.9	317.7	284.3	274.0
77.5°	1020.6	362.2	214.9	211.5	191.8	218.3	335.6	323.7	266.3	227.8	221.8
80°	341.6	209.8	155.0	149.0	127.6	153.3	236.3	258.6	208.9	168.7	158.4
82.5°	171.2	121.6	98.5	89.0	85.6	96.8	139.6	161.0	144.7	116.4	98.5
85°	83.9	69.4	53.9	53.1	44.5	42.0	58.2	68.5	65.1	47.9	45.4
87.5°	30.8	27.4	17.1	13.7	8.6	6.0	3.4	3.4	2.6	2.6	2.6
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)