

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: P632862

Luminaire Tested: GWS-SA2D-750-U-SL2-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632862  
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-SA2D-750-U-SL2-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS  
Light Source: (32) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

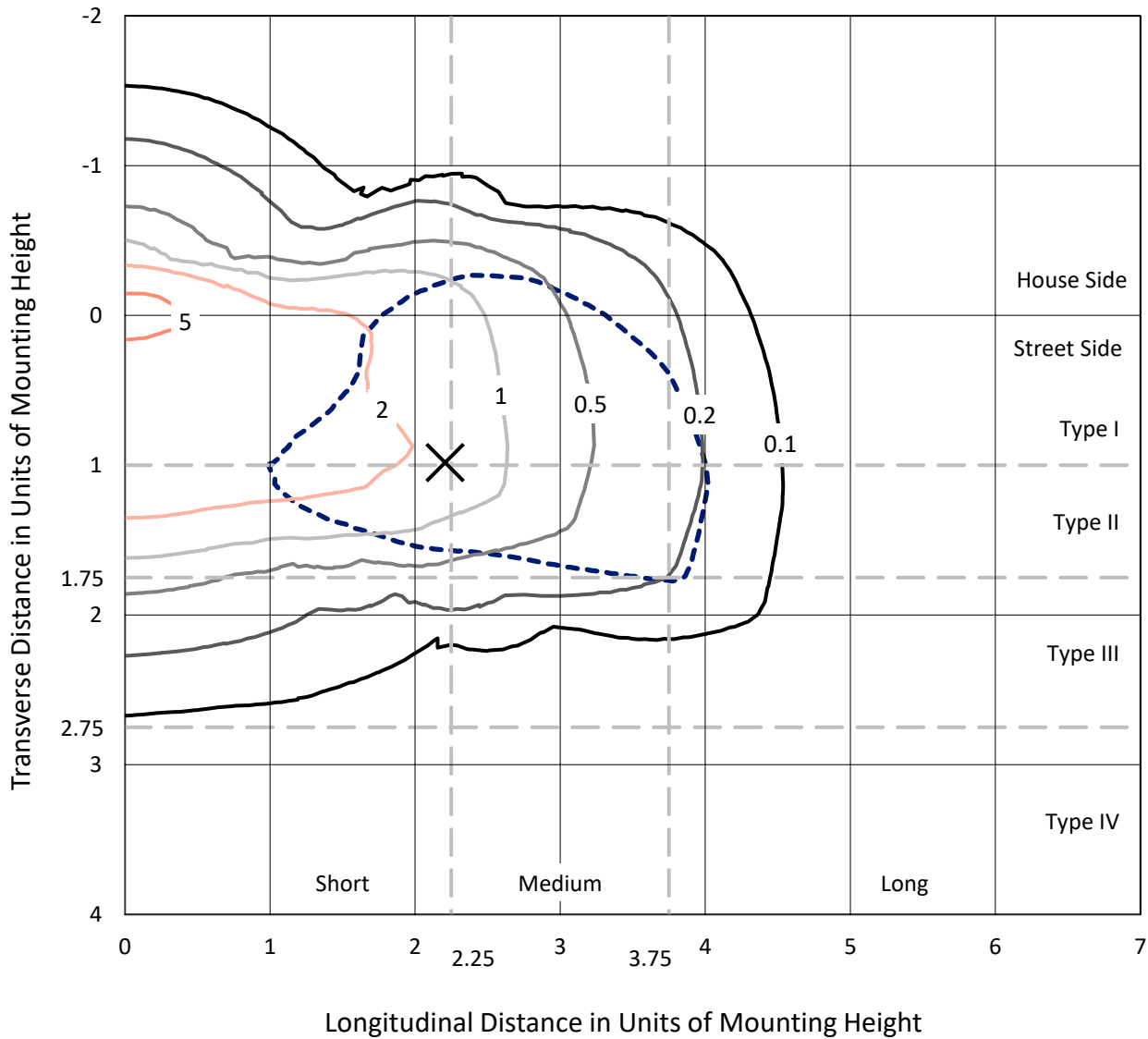
Lumens per Lamp: N/A  
Luminaire Lumens: 11736.9 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): 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

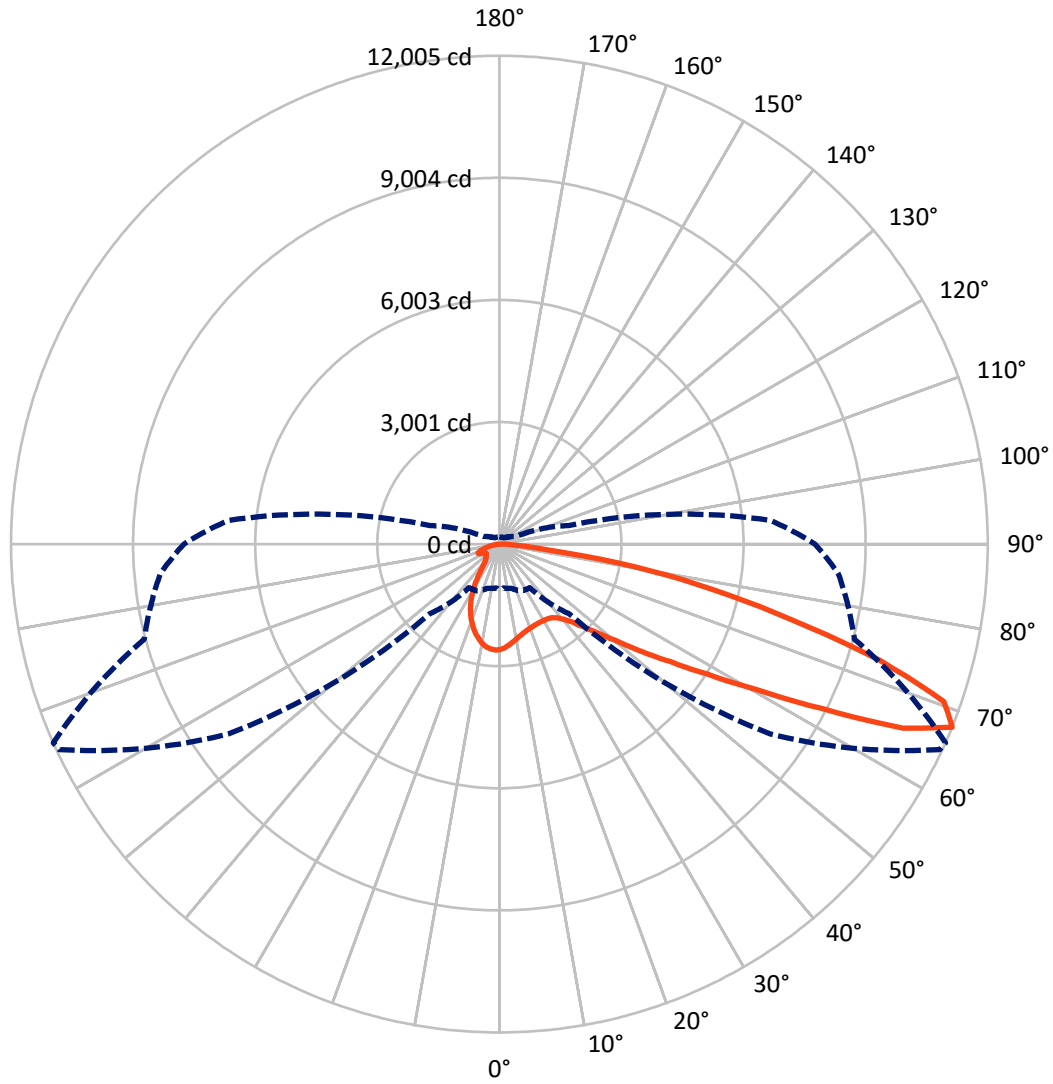
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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	2381.7	0.0	2381.7
	% Fixture	20.3	0.0	20.3
<b>Street Side</b>	Lumens	9355.2	0.0	9355.2
	% Fixture	79.7	0.0	79.7
<b>Total</b>	Lumens	11736.9	0.0	11736.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.6	1.9
10°-20°	559.4	4.8
20°-30°	768.9	6.6
30°-40°	1051.2	9.0
40°-50°	1592.9	13.6
50°-60°	2476.1	21.1
60°-70°	3014.7	25.7
70°-80°	1836.4	15.6
80°-90°	209.8	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°	11736.9	100.0
0°-180°	11736.9	100.0

**Coefficient of Utilization**



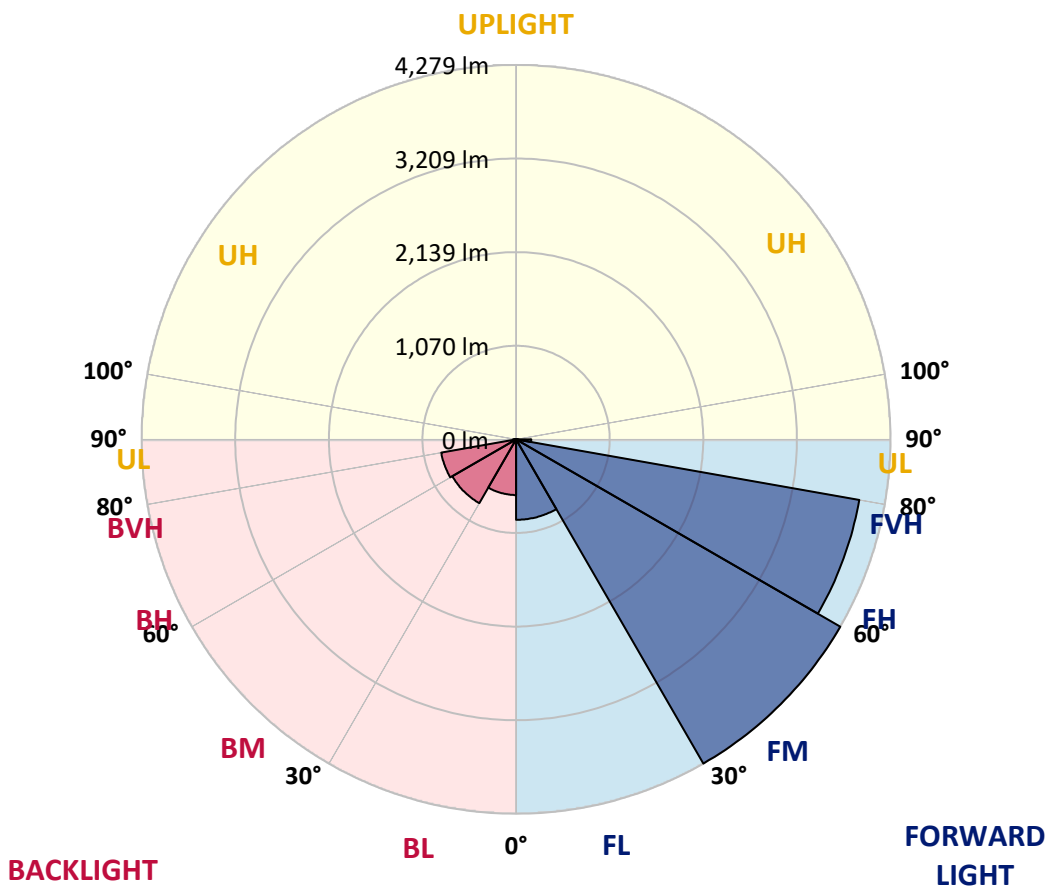
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	919.6	7.8			
FM (30°-60°)	4278.5	36.5			
FH (60°-80°)	3982.6	33.9			G2/5000
FVH (80°-90°)	174.4	1.5			G2/225
BL (0°-30°)	636.3	5.4	B2/1000		
BM (30°-60°)	841.7	7.2	B1/1000		
BH (60°-80°)	868.4	7.4	B2/1000		G2/1000
BVH (80°-90°)	35.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5
2.5°	2429.1	2437.7	2432.6	2465.1	2466.8	2507.9	2531.0	2550.7	2552.4	2578.1	2595.2
5°	2263.0	2268.2	2268.2	2299.0	2319.5	2374.3	2427.4	2483.9	2488.2	2549.9	2596.9
7.5°	2128.6	2133.7	2130.3	2171.4	2197.9	2258.7	2326.4	2412.9	2421.4	2520.7	2602.9
10°	2023.3	2021.6	2030.1	2067.8	2102.0	2174.8	2250.2	2348.6	2361.5	2487.3	2609.8
12.5°	1951.3	1953.1	1958.2	1997.6	2034.4	2106.3	2184.2	2291.3	2305.0	2448.8	2606.4
15°	1917.1	1913.7	1918.0	1953.9	1989.0	2052.4	2132.9	2243.3	2257.0	2414.6	2607.2
17.5°	1909.4	1906.8	1906.0	1931.7	1958.2	2017.3	2094.3	2206.5	2221.1	2392.3	2612.4
20°	1933.4	1929.9	1920.5	1931.7	1942.8	1992.4	2066.9	2180.0	2196.2	2377.8	2622.6
22.5°	1999.3	1993.3	1978.7	1965.0	1950.5	1980.5	2049.8	2160.3	2176.5	2368.3	2632.9
25°	2099.5	2094.3	2078.9	2048.1	1995.0	1989.9	2046.4	2151.7	2168.0	2361.5	2637.2
27.5°	2237.3	2229.6	2214.2	2169.7	2083.2	2025.0	2059.2	2150.9	2166.3	2353.8	2632.9
30°	2400.9	2395.7	2387.2	2333.2	2217.6	2099.5	2088.3	2157.7	2169.7	2349.5	2624.3
32.5°	2567.0	2561.8	2568.7	2543.0	2400.9	2222.8	2151.7	2176.5	2185.1	2348.6	2616.6
35°	2713.4	2719.4	2769.0	2773.3	2633.8	2389.7	2251.9	2220.2	2221.9	2365.8	2620.1
37.5°	2866.7	2889.8	2954.9	3010.5	2894.1	2610.6	2400.9	2302.4	2300.7	2409.4	2641.5
40°	3069.6	3079.9	3162.9	3267.4	3194.6	2913.8	2612.4	2436.8	2424.8	2498.5	2698.8
42.5°	3267.4	3292.2	3424.9	3544.8	3520.8	3255.4	2878.6	2638.0	2616.6	2656.0	2817.0
45°	3519.1	3543.1	3692.1	3846.2	3889.9	3641.5	3219.4	2924.0	2902.6	2893.2	3033.6
47.5°	3770.8	3795.7	3929.2	4151.9	4305.1	4124.5	3663.0	3301.6	3266.5	3229.7	3360.7
50°	3940.4	3969.5	4097.1	4364.2	4723.8	4727.2	4188.7	3796.5	3752.0	3693.8	3821.4
52.5°	3934.4	3953.2	4074.8	4383.0	5025.2	5419.9	4892.5	4426.7	4390.7	4264.0	4375.3
55°	3625.3	3653.5	3776.0	4161.3	5057.8	6076.7	5926.8	5169.9	5105.7	4878.8	5001.2
57.5°	3004.5	3028.5	3151.8	3627.0	4769.2	6413.2	7240.3	6116.9	6028.7	5548.4	5689.7
60°	2268.2	2239.0	2297.3	2713.4	4079.1	6421.7	8399.6	7401.3	7254.0	6264.2	6382.3
62.5°	1702.2	1673.1	1685.9	1803.2	2765.6	5902.9	9060.6	9158.2	8915.1	7072.5	7049.3
65°	1345.1	1328.9	1365.7	1446.2	1612.3	4495.2	9065.8	11058.2	10904.9	8009.2	7733.5
67.5°	1096.0	1085.7	1123.4	1272.4	1307.5	2415.4	8129.1	11945.3	12005.2	9034.9	8367.9
70°	882.8	867.4	926.4	1122.5	1215.8	1461.6	5823.2	11493.2	11589.9	9646.3	8189.0
72.5°	609.6	610.5	640.5	909.3	1173.9	1262.1	3293.9	9570.1	9779.9	9092.3	7199.2
75°	411.0	414.4	423.0	600.2	1081.4	1224.4	1755.3	7245.4	7393.5	7515.1	5950.8
77.5°	248.3	250.0	269.7	363.0	745.8	1143.1	1189.3	5252.1	5368.6	4954.1	3688.6
80°	143.8	149.8	167.8	243.2	503.5	858.8	920.4	3220.3	3352.1	2202.2	1172.2
82.5°	63.4	67.6	91.6	141.3	293.7	730.4	718.4	1272.4	1253.5	613.9	406.7
85°	11.1	13.7	19.7	44.5	107.9	385.3	557.4	561.7	528.3	232.9	168.7
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	83.9	150.7	149.8	65.9	58.2
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°	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5	2593.5
2.5°	2606.4	2583.2	2603.8	2606.4	2602.1	2598.7	2573.0	2550.7	2548.1	2524.2	2524.2
5°	2615.8	2594.4	2604.7	2585.0	2554.1	2522.5	2467.7	2430.0	2412.9	2382.0	2382.0
7.5°	2628.6	2606.4	2594.4	2545.6	2473.6	2404.3	2316.1	2242.5	2212.5	2168.8	2167.1
10°	2640.6	2612.4	2571.3	2476.2	2361.5	2251.0	2122.6	2018.1	1947.1	1894.8	1894.8
12.5°	2639.8	2602.9	2521.6	2381.2	2222.8	2062.7	1891.4	1733.9	1639.7	1558.3	1553.2
15°	2638.0	2587.5	2458.2	2270.7	2060.9	1839.2	1606.3	1400.8	1261.2	1181.6	1174.7
17.5°	2636.3	2567.8	2387.2	2144.9	1864.0	1561.8	1254.4	1031.8	915.3	866.5	868.2
20°	2636.3	2545.6	2311.0	2000.2	1637.1	1229.5	920.4	758.6	729.5	732.1	734.6
22.5°	2628.6	2518.2	2226.2	1842.6	1384.5	904.2	679.0	624.2	639.6	663.6	667.0
25°	2610.6	2472.8	2127.7	1667.9	1084.0	658.4	554.0	543.7	572.0	601.9	610.5
27.5°	2582.4	2420.6	2017.3	1463.3	798.0	529.2	487.2	486.3	508.6	530.9	538.6
30°	2552.4	2362.3	1900.8	1235.5	578.0	460.7	444.4	444.4	455.5	469.2	467.5
32.5°	2517.3	2303.3	1775.8	998.4	470.9	422.1	417.0	414.4	416.1	421.3	421.3
35°	2487.3	2251.0	1647.4	747.5	422.1	400.7	395.6	389.6	387.0	383.6	385.3
37.5°	2476.2	2209.9	1514.7	563.4	398.1	385.3	376.7	368.2	362.2	360.5	359.6
40°	2494.2	2192.8	1382.0	464.1	381.0	369.0	359.6	348.5	343.3	343.3	343.3
42.5°	2564.4	2205.6	1246.7	419.6	369.0	355.3	341.6	331.4	329.6	331.4	332.2
45°	2692.8	2255.3	1106.2	397.3	358.8	341.6	325.4	317.7	317.7	319.4	319.4
47.5°	2922.3	2385.5	967.5	383.6	348.5	330.5	313.4	305.7	304.8	306.5	306.5
50°	3319.6	2620.1	842.5	374.2	340.8	321.9	304.8	294.5	292.0	291.1	291.1
52.5°	3820.5	3026.8	762.9	367.3	331.4	312.5	295.4	281.7	276.6	274.0	274.0
55°	4425.9	3568.8	762.9	362.2	319.4	301.4	281.7	268.0	260.3	256.9	256.9
57.5°	5111.7	4199.8	894.8	357.9	310.0	288.5	267.1	253.4	244.9	239.7	239.7
60°	5809.5	4866.8	1221.0	351.9	301.4	272.3	250.9	238.0	226.9	220.9	220.1
62.5°	6533.0	5601.5	1650.8	355.3	295.4	256.9	233.8	219.2	209.8	203.8	202.9
65°	7195.8	6301.0	2026.7	381.9	296.3	243.2	214.1	201.2	193.5	185.8	184.9
67.5°	7758.3	6687.2	1763.0	435.8	314.2	226.9	194.4	181.5	174.7	169.5	168.7
70°	7364.4	6098.1	1000.1	469.2	339.1	209.8	172.1	163.5	156.7	153.3	152.4
72.5°	6297.6	5163.1	668.7	414.4	309.1	187.5	151.6	144.7	139.6	135.3	134.4
75°	5101.4	4094.5	511.2	339.9	240.6	152.4	130.1	125.0	119.9	115.6	114.7
77.5°	3018.2	2365.8	376.7	268.9	169.5	119.0	107.9	103.6	98.5	95.0	94.2
80°	963.3	822.0	238.9	184.9	112.2	91.6	83.1	79.6	74.5	70.2	69.4
82.5°	367.3	317.7	126.7	94.2	74.5	62.5	55.7	52.2	48.8	44.5	43.7
85°	162.7	152.4	70.2	50.5	40.2	30.8	27.4	25.7	21.4	18.0	17.1
87.5°	57.4	57.4	30.0	14.6	8.6	4.3	2.6	0.9	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)