

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: P633577

Luminaire Tested: GWS-SA2F-722-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633577
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-SA2F-722-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11742.6 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

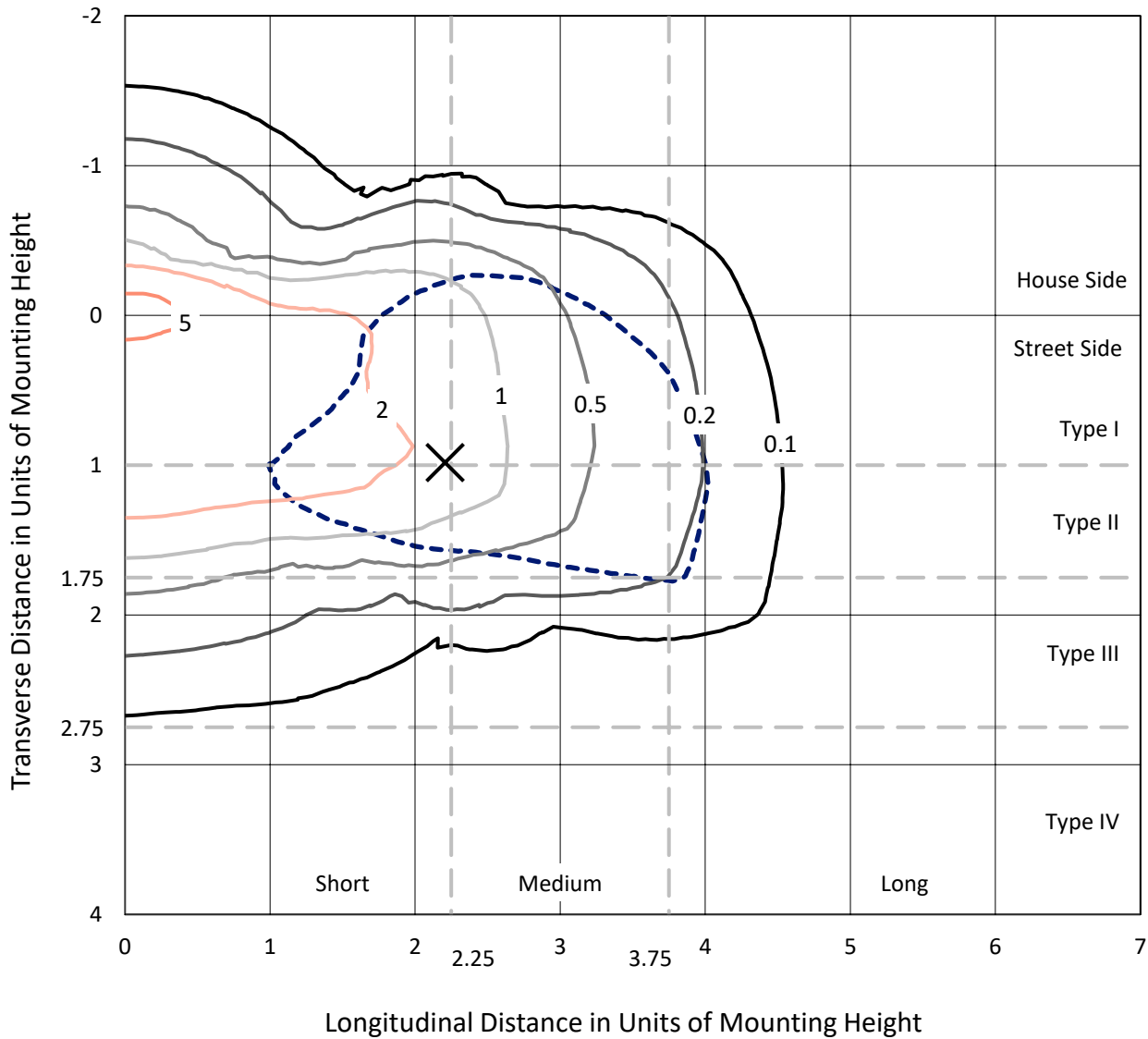
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

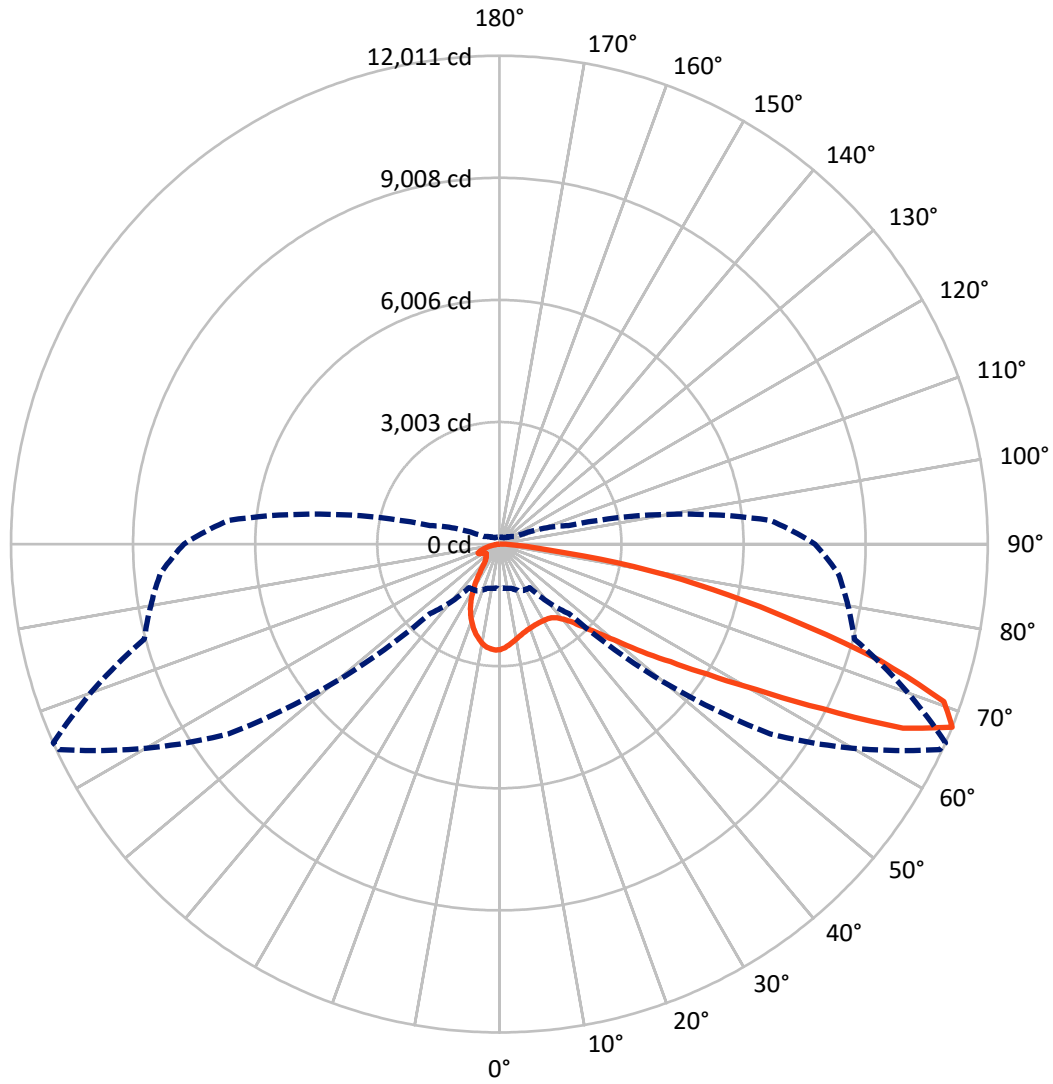
✕ Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	2382.8	0.0	2382.8
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	9359.8	0.0	9359.8
	% Fixture	79.7	0.0	79.7
Total	Lumens	11742.6	0.0	11742.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.7	1.9
10°-20°	559.7	4.8
20°-30°	769.3	6.6
30°-40°	1051.7	9.0
40°-50°	1593.6	13.6
50°-60°	2477.3	21.1
60°-70°	3016.1	25.7
70°-80°	1837.3	15.6
80°-90°	209.9	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°	11742.6	100.0
0°-180°	11742.6	100.0

Coefficient of Utilization



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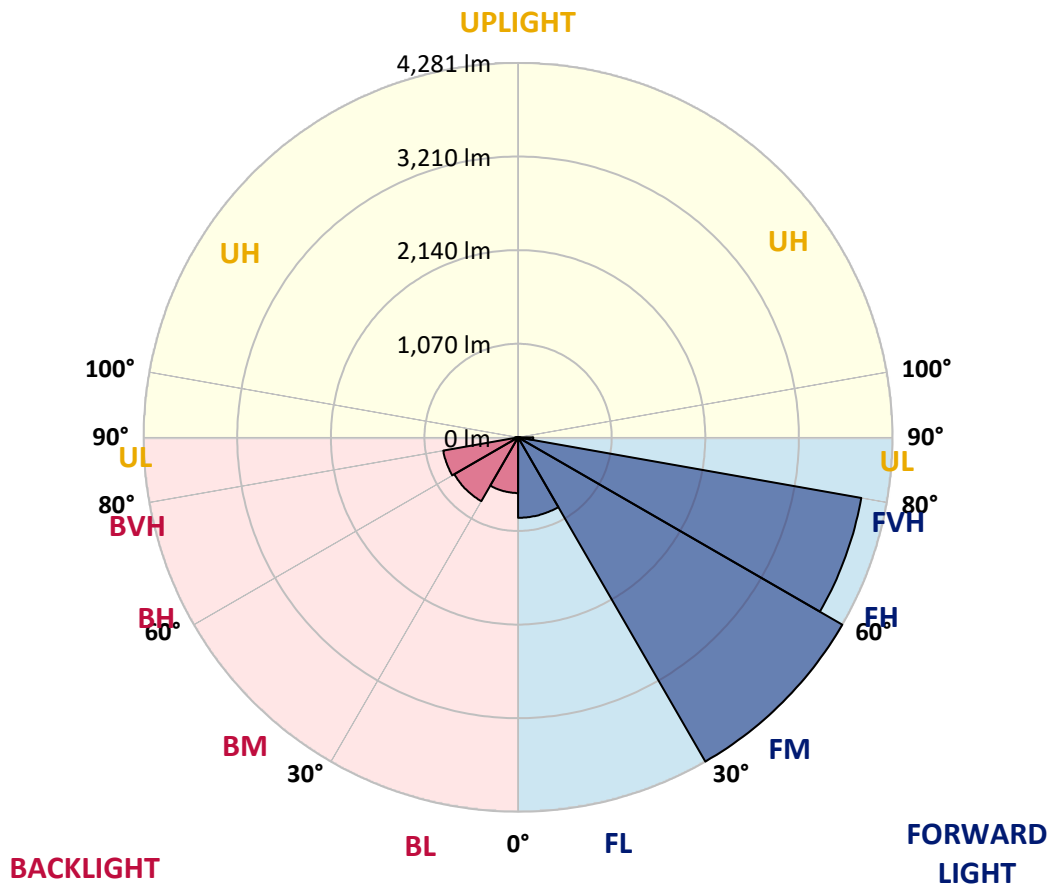
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	920.1	7.8			
FM (30°-60°)	4280.6	36.5			
FH (60°-80°)	3984.6	33.9			G2/5000
FVH (80°-90°)	174.5	1.5			G2/225
BL (0°-30°)	636.6	5.4	B2/1000		
BM (30°-60°)	842.1	7.2	B1/1000		
BH (60°-80°)	868.8	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°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2.5°	2430.3	2438.9	2433.7	2466.3	2468.0	2509.1	2532.2	2551.9	2553.7	2579.4	2596.5
5°	2264.1	2269.3	2269.3	2300.1	2320.7	2375.5	2428.6	2485.1	2489.4	2551.1	2598.2
7.5°	2129.6	2134.8	2131.3	2172.5	2199.0	2259.8	2327.5	2414.0	2422.6	2522.0	2604.2
10°	2024.3	2022.5	2031.1	2068.8	2103.1	2175.9	2251.3	2349.8	2362.6	2488.6	2611.1
12.5°	1952.3	1954.0	1959.1	1998.6	2035.4	2107.3	2185.3	2292.4	2306.1	2450.0	2607.6
15°	1918.0	1914.6	1918.9	1954.9	1990.0	2053.4	2133.9	2244.4	2258.1	2415.7	2608.5
17.5°	1910.3	1907.8	1906.9	1932.6	1959.1	2018.3	2095.4	2207.6	2222.1	2393.5	2613.6
20°	1934.3	1930.9	1921.5	1932.6	1943.7	1993.4	2067.9	2181.0	2197.3	2378.9	2623.9
22.5°	2000.3	1994.3	1979.7	1966.0	1951.4	1981.4	2050.8	2161.3	2177.6	2369.5	2634.2
25°	2100.5	2095.4	2079.9	2049.1	1996.0	1990.8	2047.4	2152.8	2169.0	2362.6	2638.5
27.5°	2238.4	2230.7	2215.3	2170.7	2084.2	2026.0	2060.2	2151.9	2167.3	2354.9	2634.2
30°	2402.0	2396.9	2388.3	2334.4	2218.7	2100.5	2089.4	2158.7	2170.7	2350.6	2625.6
32.5°	2568.2	2563.1	2569.9	2544.2	2402.0	2223.9	2152.8	2177.6	2186.2	2349.8	2617.9
35°	2714.7	2720.7	2770.4	2774.7	2635.0	2390.9	2253.0	2221.3	2223.0	2366.9	2621.3
37.5°	2868.1	2891.2	2956.3	3012.0	2895.5	2611.9	2402.0	2303.5	2301.8	2410.6	2642.8
40°	3071.1	3081.4	3164.5	3269.0	3196.1	2915.2	2613.6	2438.0	2426.0	2499.7	2700.1
42.5°	3269.0	3293.8	3426.6	3546.5	3522.5	3257.0	2880.0	2639.3	2617.9	2657.3	2818.4
45°	3520.8	3544.8	3693.9	3848.1	3891.7	3643.3	3221.0	2925.4	2904.0	2894.6	3035.1
47.5°	3772.7	3797.5	3931.1	4153.9	4307.2	4126.5	3664.7	3303.2	3268.1	3231.3	3362.3
50°	3942.3	3971.4	4099.1	4366.3	4726.1	4729.5	4190.7	3798.4	3753.8	3695.6	3823.2
52.5°	3936.3	3955.1	4076.8	4385.2	5027.7	5422.6	4894.9	4428.9	4392.9	4266.1	4377.5
55°	3627.0	3655.3	3777.8	4163.3	5060.2	6079.6	5929.7	5172.4	5108.2	4881.2	5003.7
57.5°	3006.0	3030.0	3153.3	3628.8	4771.5	6416.3	7243.8	6119.9	6031.6	5551.1	5692.4
60°	2269.3	2240.1	2298.4	2714.7	4081.1	6424.8	8403.7	7404.8	7257.5	6267.2	6385.4
62.5°	1703.0	1673.9	1686.7	1804.1	2767.0	5905.7	9065.0	9162.7	8919.4	7075.9	7052.8
65°	1345.8	1329.5	1366.4	1446.9	1613.1	4497.4	9070.2	11063.6	10910.2	8013.1	7737.2
67.5°	1096.5	1086.2	1123.9	1273.0	1308.1	2416.6	8133.0	11951.1	12011.0	9039.3	8372.0
70°	883.2	867.8	926.9	1123.1	1216.4	1462.3	5826.1	11498.8	11595.6	9651.0	8193.0
72.5°	609.9	610.8	640.8	909.8	1174.5	1262.7	3295.5	9574.7	9784.6	9096.7	7202.7
75°	411.2	414.6	423.2	600.5	1081.9	1225.0	1756.1	7248.9	7397.1	7518.8	5953.7
77.5°	248.4	250.1	269.8	363.2	746.1	1143.6	1189.9	5254.7	5371.2	4956.6	3690.4
80°	143.9	149.9	167.9	243.3	503.7	859.2	920.9	3221.8	3353.8	2203.3	1172.7
82.5°	63.4	67.7	91.7	141.3	293.8	730.7	718.7	1273.0	1254.1	614.2	406.9
85°	11.1	13.7	19.7	44.5	107.9	385.5	557.7	562.0	528.6	233.0	168.8
87.5°	0.0	0.0	0.0	0.0	0.0	2.6	84.0	150.8	149.9	66.0	58.3
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°	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8	2594.8
2.5°	2607.6	2584.5	2605.1	2607.6	2603.3	2599.9	2574.2	2551.9	2549.4	2525.4	2525.4
5°	2617.1	2595.6	2605.9	2586.2	2555.4	2523.7	2468.9	2431.2	2414.0	2383.2	2383.2
7.5°	2629.9	2607.6	2595.6	2546.8	2474.9	2405.5	2317.2	2243.6	2213.6	2169.9	2168.2
10°	2641.9	2613.6	2572.5	2477.4	2362.6	2252.1	2123.6	2019.1	1948.0	1895.8	1895.8
12.5°	2641.0	2604.2	2522.8	2382.3	2223.9	2063.7	1892.3	1734.7	1640.5	1559.1	1554.0
15°	2639.3	2588.8	2459.4	2271.8	2061.9	1840.1	1607.1	1401.5	1261.8	1182.2	1175.3
17.5°	2637.6	2569.1	2388.3	2145.9	1864.9	1562.5	1255.0	1032.3	915.8	866.9	868.6
20°	2637.6	2546.8	2312.1	2001.1	1637.9	1230.1	920.9	759.0	729.9	732.4	735.0
22.5°	2629.9	2519.4	2227.3	1843.5	1385.2	904.6	679.3	624.5	639.9	663.9	667.3
25°	2611.9	2474.0	2128.8	1668.7	1084.5	658.8	554.3	544.0	572.2	602.2	610.8
27.5°	2583.6	2421.7	2018.3	1464.0	798.4	529.4	487.4	486.6	508.8	531.1	538.8
30°	2553.7	2363.5	1901.8	1236.1	578.2	460.9	444.6	444.6	455.7	469.4	467.7
32.5°	2518.5	2304.4	1776.7	998.8	471.2	422.3	417.2	414.6	416.3	421.5	421.5
35°	2488.6	2252.1	1648.2	747.9	422.3	400.9	395.8	389.8	387.2	383.8	385.5
37.5°	2477.4	2211.0	1515.4	563.7	398.3	385.5	376.9	368.4	362.4	360.6	359.8
40°	2495.4	2193.9	1382.6	464.3	381.2	369.2	359.8	348.7	343.5	343.5	343.5
42.5°	2565.7	2206.7	1247.3	419.8	369.2	355.5	341.8	331.5	329.8	331.5	332.4
45°	2694.2	2256.4	1106.8	397.5	358.9	341.8	325.5	317.8	317.8	319.5	319.5
47.5°	2923.7	2386.6	968.0	383.8	348.7	330.7	313.5	305.8	305.0	306.7	306.7
50°	3321.2	2621.3	842.9	374.4	340.9	322.1	305.0	294.7	292.1	291.3	291.3
52.5°	3822.4	3028.2	763.3	367.5	331.5	312.7	295.5	281.8	276.7	274.1	274.1
55°	4428.0	3570.5	763.3	362.4	319.5	301.5	281.8	268.1	260.4	257.0	257.0
57.5°	5114.2	4201.8	895.2	358.1	310.1	288.7	267.3	253.6	245.0	239.9	239.9
60°	5812.3	4869.2	1221.6	352.1	301.5	272.4	251.0	238.1	227.0	221.0	220.2
62.5°	6536.2	5604.2	1651.6	355.5	295.5	257.0	233.9	219.3	209.9	203.9	203.0
65°	7199.3	6304.1	2027.7	382.1	296.4	243.3	214.2	201.3	193.6	185.9	185.0
67.5°	7762.1	6690.4	1763.8	436.0	314.4	227.0	194.5	181.6	174.8	169.6	168.8
70°	7368.0	6101.0	1000.6	469.4	339.2	209.9	172.2	163.6	156.8	153.3	152.5
72.5°	6300.6	5165.6	669.0	414.6	309.2	187.6	151.6	144.8	139.6	135.4	134.5
75°	5103.9	4096.5	511.4	340.1	240.7	152.5	130.2	125.1	119.9	115.6	114.8
77.5°	3019.7	2366.9	376.9	269.0	169.6	119.1	107.9	103.7	98.5	95.1	94.2
80°	963.7	822.4	239.0	185.0	112.2	91.7	83.1	79.7	74.5	70.2	69.4
82.5°	367.5	317.8	126.8	94.2	74.5	62.5	55.7	52.3	48.8	44.5	43.7
85°	162.8	152.5	70.2	50.5	40.3	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)