

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: P636782

Luminaire Tested: GWS-SA4B-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P636782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4B-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14447.8 lumens
Efficiency: N/A
Efficacy: 153.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

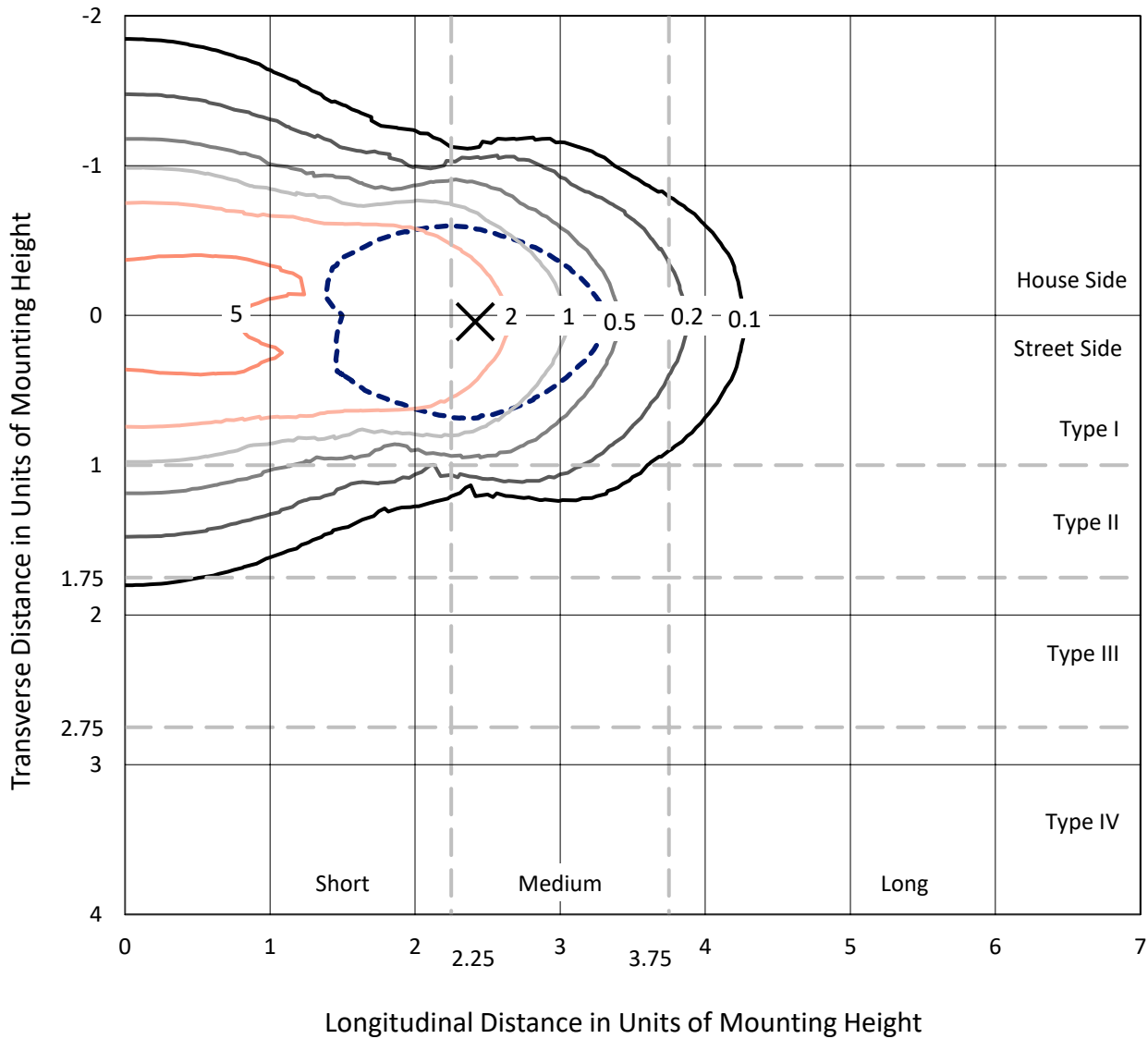
Input Watts (W): 94.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

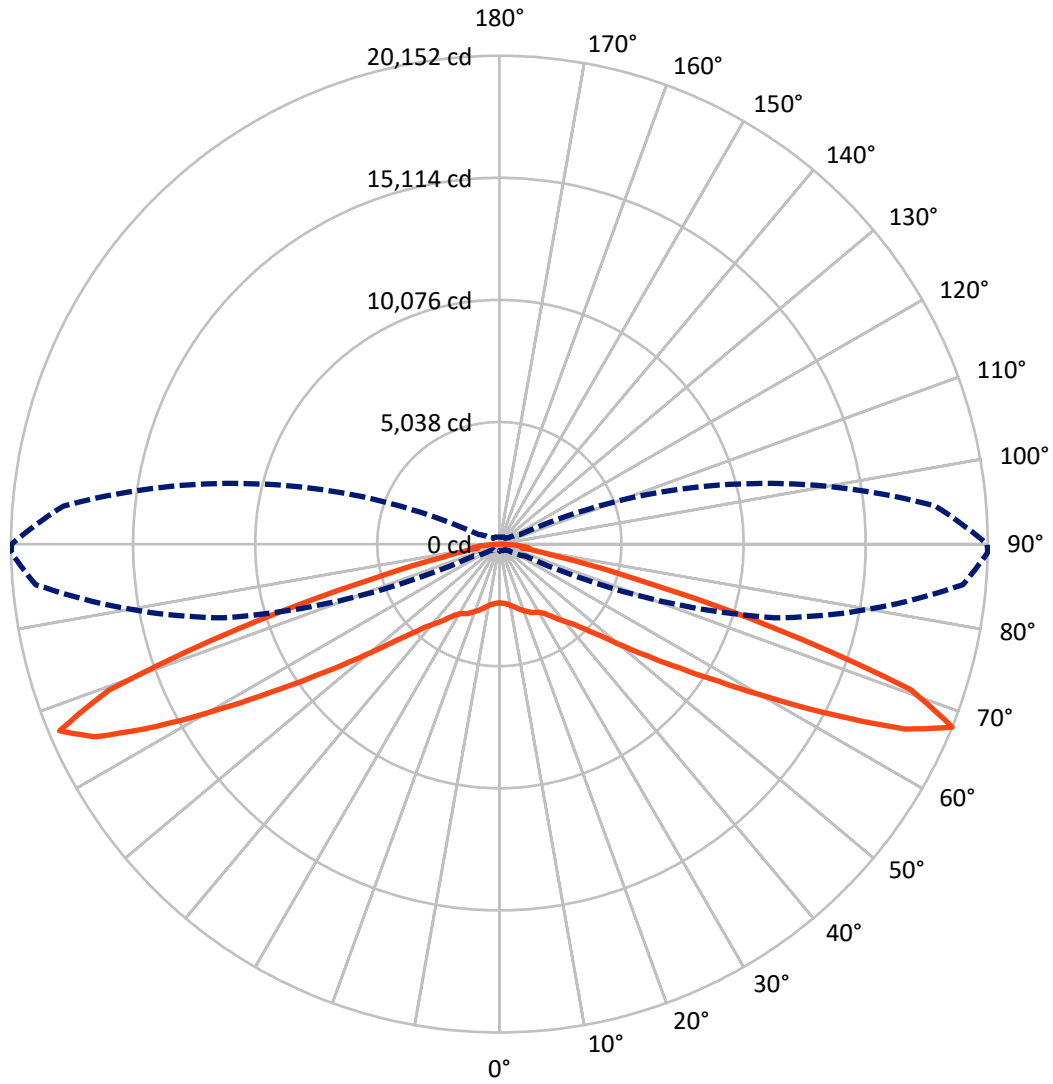
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7160.6	0.0	7160.6
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7287.2	0.0	7287.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	14447.8	0.0	14447.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.2	1.7
10°-20°	792.0	5.5
20°-30°	1338.9	9.3
30°-40°	1837.4	12.7
40°-50°	2343.2	16.2
50°-60°	2939.9	20.3
60°-70°	3545.7	24.5
70°-80°	1282.7	8.9
80°-90°	124.7	0.9
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°	14447.8	100.0
0°-180°	14447.8	100.0

Coefficient of Utilization



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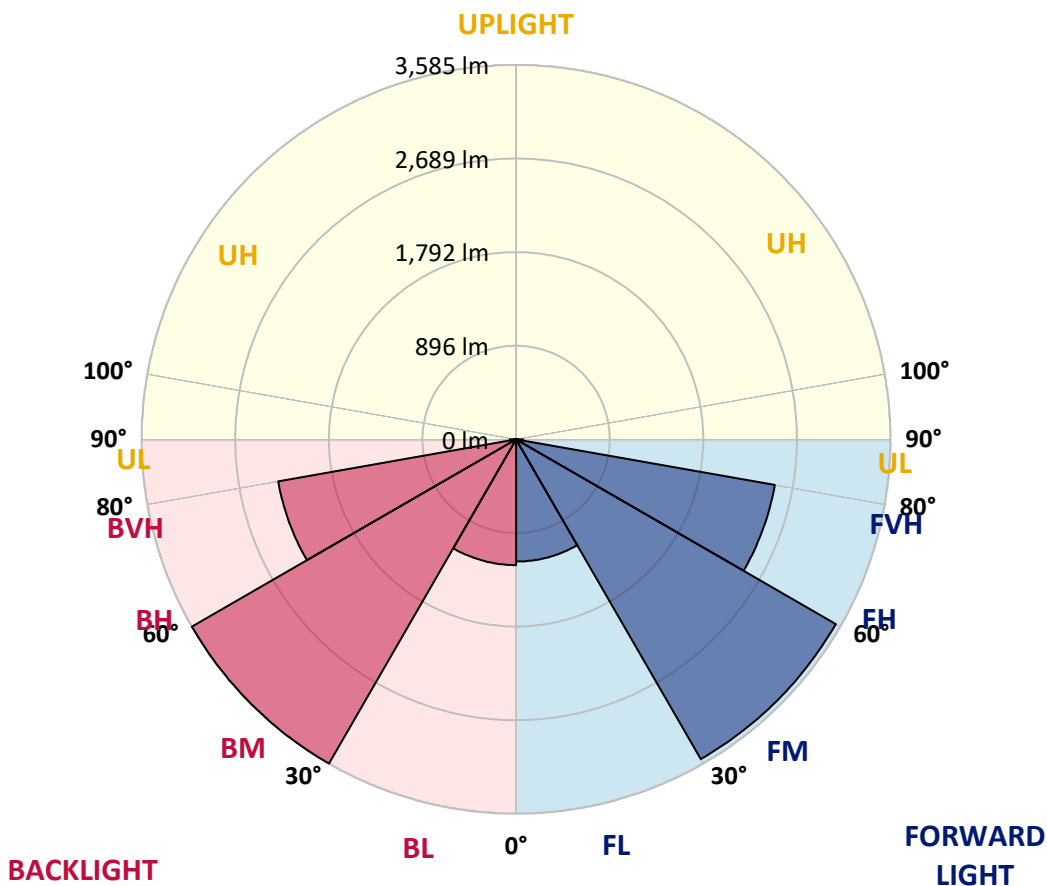
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.2	8.1			
FM (30°-60°)	3535.7	24.5			
FH (60°-80°)	2515.6	17.4			G2/5000
FVH (80°-90°)	65.8	0.5			G1/100
BL (0°-30°)	1204.0	8.3	B3/2500		
BM (30°-60°)	3584.8	24.8	B3/5000		
BH (60°-80°)	2312.9	16.0	B3/2500		G3/2500
BVH (80°-90°)	58.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2432.2	2430.1	2424.9	2440.5	2437.4	2438.4	2444.7	2440.5	2433.2	2420.8	2438.4
5°	2500.7	2499.7	2488.2	2497.6	2487.2	2479.9	2478.9	2468.5	2460.2	2446.7	2465.4
7.5°	2567.1	2566.1	2556.7	2573.3	2565.0	2556.7	2547.4	2526.6	2506.9	2487.2	2508.0
10°	2617.9	2616.9	2614.8	2638.7	2640.8	2643.9	2639.7	2604.5	2570.2	2546.3	2567.1
12.5°	2647.0	2650.1	2655.3	2698.9	2720.7	2741.4	2746.6	2717.6	2660.5	2626.2	2651.2
15°	2627.3	2633.5	2659.5	2738.3	2798.5	2845.2	2864.9	2841.0	2767.4	2710.3	2738.3
17.5°	2532.9	2538.0	2588.9	2709.3	2842.1	2950.0	2982.2	2967.6	2885.7	2816.1	2843.1
20°	2402.1	2413.5	2468.5	2636.6	2834.8	3022.6	3108.7	3103.6	3014.3	2907.4	2939.6
22.5°	2283.8	2297.3	2355.4	2541.2	2786.0	3041.3	3236.4	3249.9	3131.6	2998.8	3024.7
25°	2151.0	2163.5	2238.2	2428.1	2702.0	3026.8	3345.3	3406.5	3264.4	3103.6	3127.4
27.5°	2015.1	2024.4	2098.1	2300.4	2592.0	2999.8	3431.5	3578.8	3395.1	3176.2	3192.8
30°	1895.8	1908.2	1975.7	2172.8	2471.6	2945.8	3502.0	3762.5	3545.6	3258.2	3271.7
32.5°	1780.6	1791.0	1864.6	2047.2	2344.0	2862.8	3565.3	3978.3	3768.7	3410.7	3410.7
35°	1635.3	1654.0	1737.0	1926.9	2223.6	2752.8	3611.0	4229.4	4073.7	3635.9	3636.9
37.5°	1501.5	1511.8	1599.0	1791.0	2097.1	2628.3	3615.1	4489.8	4459.7	3922.3	3924.3
40°	1348.9	1362.4	1455.8	1645.7	1951.8	2497.6	3575.7	4732.6	4864.4	4216.9	4205.5
42.5°	1194.3	1214.0	1303.3	1489.0	1795.1	2337.8	3470.9	4964.0	5378.0	4558.3	4530.3
45°	1044.9	1057.3	1146.6	1321.9	1615.6	2146.9	3302.8	5186.1	5988.2	5077.1	5036.7
47.5°	876.8	882.0	974.3	1142.4	1429.9	1934.1	3062.1	5384.3	6658.5	5764.0	5694.5
50°	727.4	734.6	807.3	951.5	1202.6	1682.0	2762.2	5500.5	7512.5	6701.0	6580.7
52.5°	588.3	595.6	653.7	768.9	994.1	1394.6	2390.7	5473.5	8378.9	7864.2	7688.9
55°	475.2	480.4	519.9	610.1	782.4	1109.2	1951.8	5231.7	9340.8	9383.3	9005.6
57.5°	401.6	403.6	430.6	485.6	611.2	855.0	1506.6	4661.0	10349.3	11321.6	10701.1
60°	359.0	360.1	372.5	406.8	482.5	652.7	1104.0	3752.1	11394.2	13746.6	12895.7
62.5°	332.0	332.0	342.4	362.1	400.5	502.2	811.4	2694.7	12144.4	16385.3	15539.6
65°	306.1	306.1	313.4	330.0	350.7	409.9	609.1	1738.0	12512.8	18591.3	18403.4
67.5°	272.9	273.9	279.1	296.8	315.4	342.4	461.7	1175.6	11748.1	19201.4	20151.9
70°	241.8	242.8	250.1	261.5	277.0	295.7	361.1	810.4	8551.1	15992.0	18018.5
72.5°	207.5	211.7	216.9	229.3	238.7	252.1	294.7	525.0	4975.4	10287.1	11911.0
75°	170.2	175.4	181.6	194.0	200.3	205.5	242.8	374.6	2393.8	5213.1	5936.3
77.5°	131.8	137.0	144.2	155.6	159.8	166.0	185.7	270.8	1146.6	2310.8	2491.4
80°	88.2	90.3	96.5	110.0	117.3	121.4	137.0	184.7	498.1	927.6	919.3
82.5°	54.0	55.0	57.1	65.4	68.5	72.6	89.2	113.1	237.6	1054.2	1208.8
85°	19.7	18.7	17.6	22.8	27.0	31.1	41.5	57.1	103.8	724.3	810.4
87.5°	0.0	0.0	0.0	1.0	2.1	2.1	4.2	8.3	24.9	270.8	185.7
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°	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9	2424.9
2.5°	2433.2	2421.8	2436.4	2446.7	2469.6	2477.9	2479.9	2472.7	2472.7	2460.2	2462.3
5°	2461.3	2454.0	2477.9	2495.5	2528.7	2541.2	2549.5	2544.3	2547.4	2539.1	2541.2
7.5°	2503.8	2497.6	2539.1	2573.3	2607.6	2622.1	2629.4	2625.2	2626.2	2615.9	2619.0
10°	2563.0	2565.0	2614.8	2659.5	2705.1	2719.6	2722.7	2710.3	2699.9	2681.2	2682.3
12.5°	2643.9	2654.3	2724.8	2774.6	2821.3	2842.1	2819.2	2773.6	2731.0	2698.9	2694.7
15°	2732.1	2750.8	2852.5	2915.7	2966.6	2956.2	2888.8	2786.0	2702.0	2654.3	2644.9
17.5°	2837.9	2865.9	2993.6	3069.3	3112.9	3046.5	2905.4	2751.8	2634.5	2570.2	2557.8
20°	2937.5	2982.2	3143.0	3241.6	3246.8	3097.3	2898.1	2682.3	2534.9	2456.1	2439.5
22.5°	3028.8	3085.9	3299.7	3425.2	3357.8	3120.2	2853.5	2583.7	2414.6	2322.2	2307.7
25°	3128.5	3209.4	3482.3	3599.5	3468.8	3110.8	2760.1	2461.3	2269.3	2174.9	2164.5
27.5°	3196.9	3298.6	3666.0	3778.0	3560.1	3057.9	2639.7	2327.4	2136.5	2047.2	2032.7
30°	3275.8	3405.5	3868.3	3972.1	3616.1	2980.1	2511.1	2202.9	2013.0	1916.5	1906.1
32.5°	3419.0	3581.9	4119.4	4177.5	3633.8	2883.6	2387.6	2082.5	1884.3	1787.8	1773.3
35°	3649.4	3840.3	4472.2	4406.8	3620.3	2777.7	2270.3	1941.4	1752.6	1662.3	1647.8
37.5°	3939.9	4177.5	4865.5	4613.3	3582.9	2661.5	2131.3	1823.1	1634.3	1543.0	1534.7
40°	4210.7	4503.3	5306.5	4791.8	3507.2	2518.3	1997.4	1699.6	1506.6	1410.1	1391.5
42.5°	4550.0	4939.1	5817.0	4946.4	3382.7	2347.1	1847.0	1547.1	1346.8	1259.7	1236.9
45°	5065.7	5549.3	6410.5	5094.8	3196.9	2136.5	1658.1	1361.4	1171.5	1082.3	1064.6
47.5°	5709.1	6311.9	7053.8	5183.0	2914.7	1914.4	1444.4	1165.3	975.4	874.7	866.4
50°	6612.8	7421.1	7743.9	5167.4	2599.3	1650.9	1203.7	931.8	773.0	700.4	689.0
52.5°	7713.8	8813.6	8489.9	4980.6	2264.1	1351.0	938.0	731.5	613.2	561.4	552.0
55°	9094.8	10481.1	9275.4	4580.1	1840.8	1034.5	736.7	576.9	496.0	464.9	460.7
57.5°	10804.9	12640.4	10031.8	3905.6	1384.2	789.6	567.6	476.3	437.9	419.2	418.2
60°	13061.7	14932.6	10688.7	3035.1	990.9	603.9	469.0	425.4	395.3	382.9	381.8
62.5°	15745.0	17014.1	11097.5	2067.0	745.0	481.5	413.0	386.0	368.4	361.1	360.1
65°	18503.1	18329.8	10902.4	1354.1	565.5	408.8	370.4	355.9	340.3	333.1	333.1
67.5°	20132.1	18051.7	9405.1	940.1	448.3	359.0	334.1	320.6	294.7	288.5	288.5
70°	17831.7	14627.5	6164.6	688.0	363.2	314.4	290.5	271.9	261.5	255.3	254.2
72.5°	11793.7	9518.2	3277.9	477.3	303.0	267.7	245.9	238.7	226.2	220.0	218.9
75°	5869.9	4999.3	1679.9	344.5	252.1	214.8	205.5	202.3	192.0	183.7	181.6
77.5°	2446.7	2225.7	783.4	250.1	192.0	173.3	165.0	165.0	153.6	144.2	140.1
80°	922.5	821.8	370.4	171.2	142.2	128.7	123.5	119.3	110.0	98.6	92.3
82.5°	1233.7	806.2	181.6	106.9	93.4	83.0	75.7	72.6	67.4	62.3	58.1
85°	799.0	572.8	82.0	55.0	46.7	35.3	31.1	29.1	25.9	22.8	20.8
87.5°	162.9	192.0	24.9	10.4	6.2	3.1	3.1	1.0	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)