

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: P636727

Luminaire Tested: GWS-SA4B-735-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636727  
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-735-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (64) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

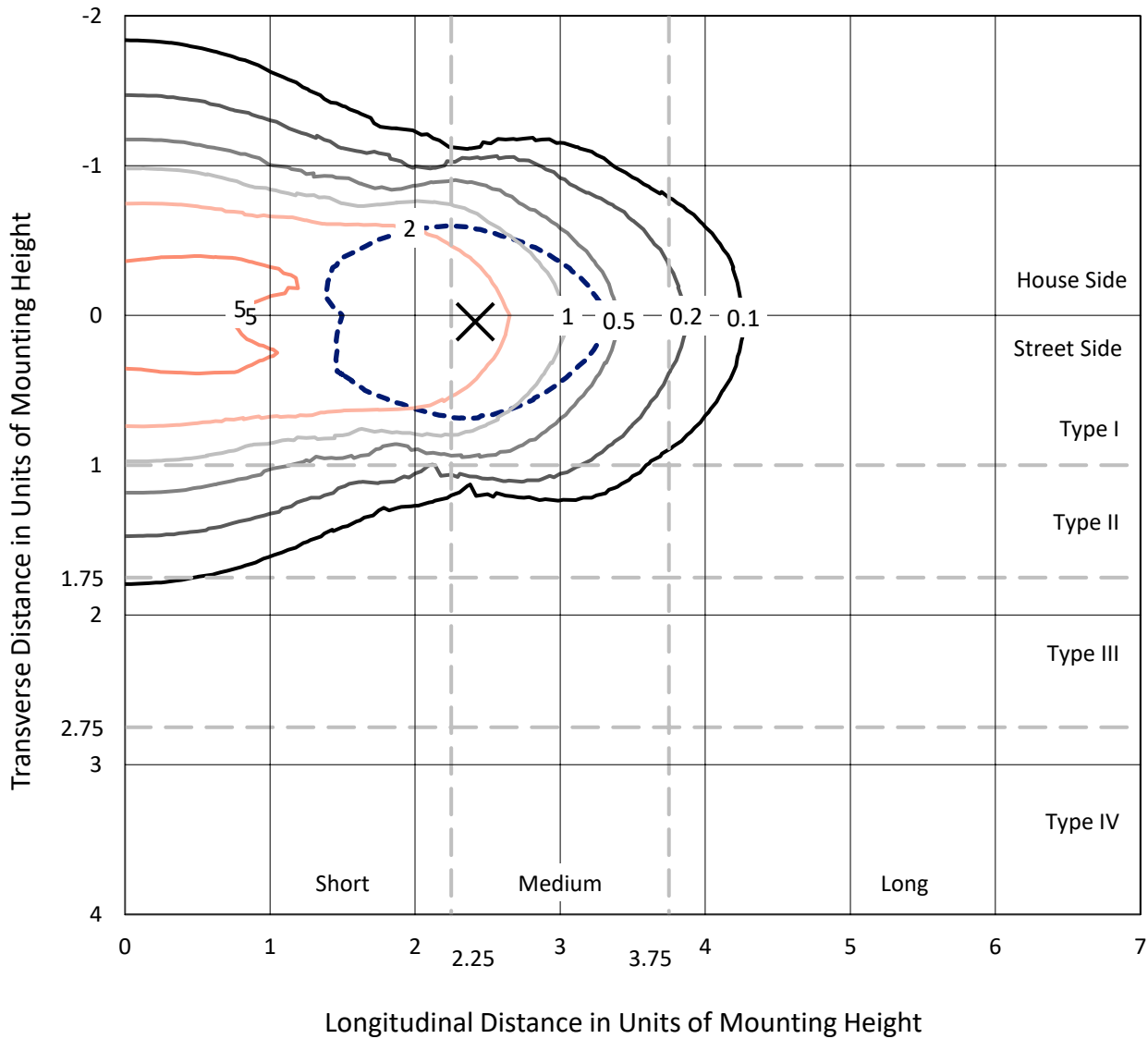
Lumens per Lamp: N/A  
Luminaire Lumens: 14249.8 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

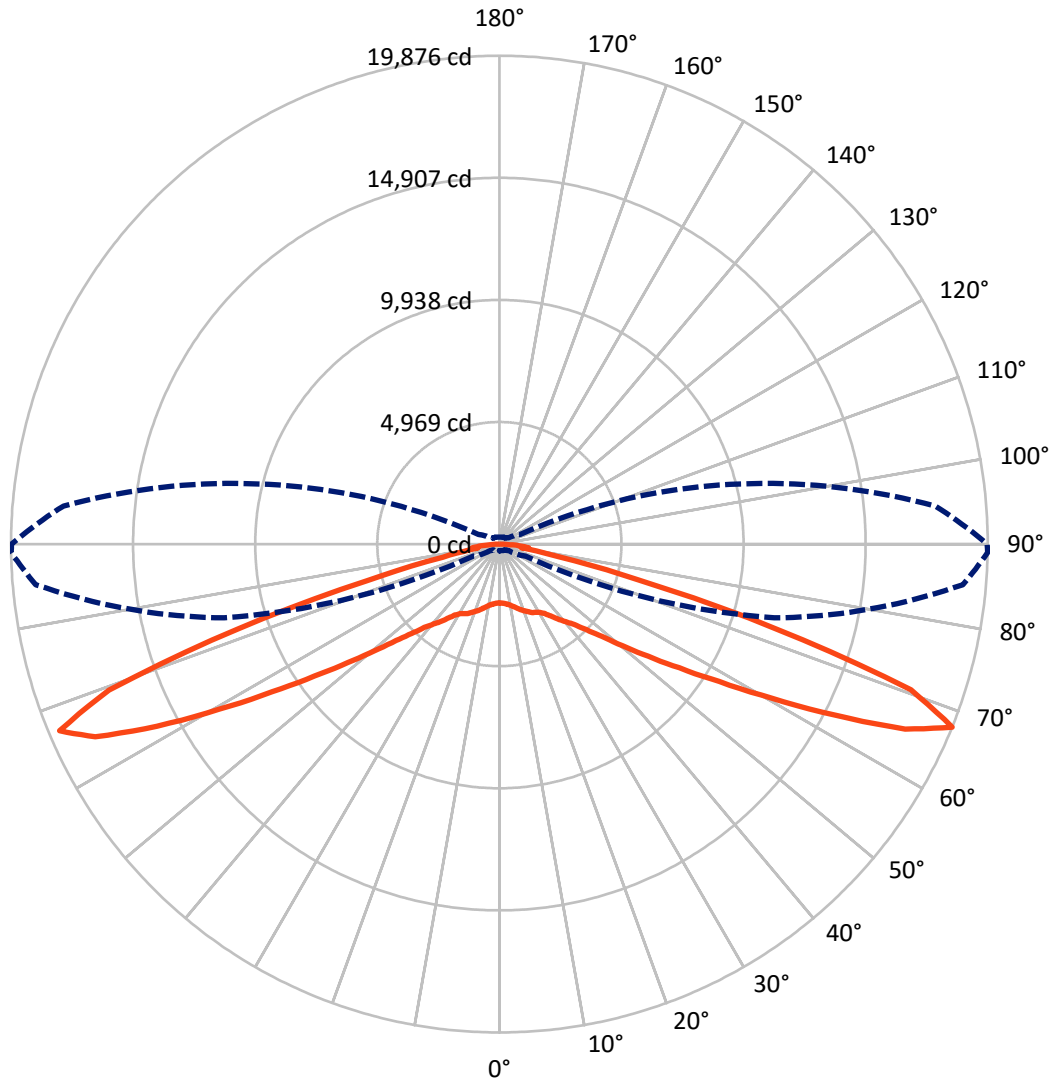
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 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
<b>House Side</b>	Lumens	7062.4	0.0	7062.4
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7187.3	0.0	7187.3
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	14249.8	0.0	14249.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.9	1.7
10°-20°	781.2	5.5
20°-30°	1320.5	9.3
30°-40°	1812.3	12.7
40°-50°	2311.0	16.2
50°-60°	2899.6	20.3
60°-70°	3497.1	24.5
70°-80°	1265.1	8.9
80°-90°	123.0	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°	14249.8	100.0
0°-180°	14249.8	100.0

**Coefficient of Utilization**



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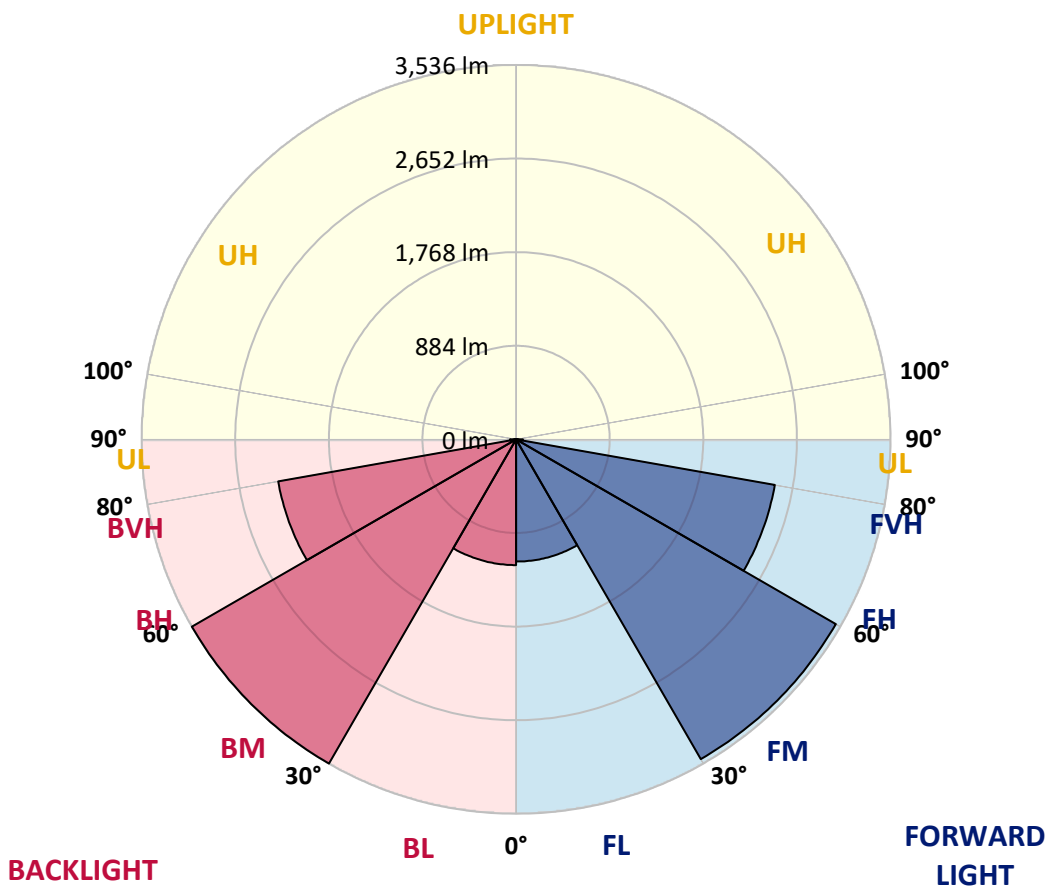
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.1	8.1			
FM (30°-60°)	3487.2	24.5			
FH (60°-80°)	2481.1	17.4			G2/5000
FVH (80°-90°)	64.9	0.5			G1/100
BL (0°-30°)	1187.5	8.3	B3/2500		
BM (30°-60°)	3535.7	24.8	B3/5000		
BH (60°-80°)	2281.2	16.0	B3/2500		G3/2500
BVH (80°-90°)	58.1	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°	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7
2.5°	2398.9	2396.8	2391.7	2407.1	2404.0	2405.0	2411.2	2407.1	2399.9	2387.6	2405.0
5°	2466.4	2465.4	2454.1	2463.4	2453.1	2446.0	2444.9	2434.7	2426.5	2413.2	2431.6
7.5°	2531.9	2530.9	2521.7	2538.1	2529.9	2521.7	2512.5	2492.0	2472.6	2453.1	2473.6
10°	2582.1	2581.0	2579.0	2602.5	2604.6	2607.7	2603.6	2568.8	2535.0	2511.5	2531.9
12.5°	2610.7	2613.8	2618.9	2661.9	2683.4	2703.9	2709.0	2680.3	2624.0	2590.3	2614.8
15°	2591.3	2597.4	2623.0	2700.8	2760.1	2806.2	2825.6	2802.1	2729.4	2673.2	2700.8
17.5°	2498.1	2503.3	2553.4	2672.1	2803.1	2909.6	2941.3	2927.0	2846.1	2777.5	2804.1
20°	2369.2	2380.5	2434.7	2600.5	2796.0	2981.2	3066.1	3061.0	2973.0	2867.6	2899.3
22.5°	2252.5	2265.8	2323.1	2506.3	2747.9	2999.6	3192.0	3205.3	3088.7	2957.7	2983.2
25°	2121.5	2133.8	2207.5	2394.8	2665.0	2985.3	3299.5	3359.9	3219.7	3061.0	3084.6
27.5°	1987.5	1996.7	2069.3	2268.9	2556.5	2958.7	3384.4	3529.7	3348.6	3132.7	3149.0
30°	1869.8	1882.1	1948.6	2143.0	2437.8	2905.5	3454.0	3710.9	3497.0	3213.5	3226.8
32.5°	1756.2	1766.4	1839.1	2019.2	2311.9	2823.6	3516.4	3923.8	3717.0	3364.0	3364.0
35°	1612.9	1631.3	1713.2	1900.5	2193.2	2715.1	3561.5	4171.4	4017.9	3586.0	3587.1
37.5°	1480.9	1491.1	1577.1	1766.4	2068.3	2592.3	3565.6	4428.3	4398.6	3868.5	3870.5
40°	1330.4	1343.7	1435.8	1623.1	1925.0	2463.4	3526.7	4667.8	4797.8	4159.1	4147.9
42.5°	1177.9	1197.4	1285.4	1468.6	1770.5	2305.7	3423.3	4896.0	5304.3	4495.8	4468.2
45°	1030.6	1042.9	1130.9	1303.8	1593.5	2117.4	3257.5	5115.0	5906.1	5007.6	4967.6
47.5°	864.8	869.9	961.0	1126.8	1410.3	1907.6	3020.1	5310.5	6567.2	5685.1	5616.5
50°	717.4	724.6	796.2	938.5	1186.1	1659.0	2724.3	5425.1	7409.5	6609.2	6490.5
52.5°	580.3	587.4	644.7	758.3	980.4	1375.5	2357.9	5398.5	8264.1	7756.4	7583.5
55°	468.7	473.8	512.7	601.8	771.7	1094.0	1925.0	5160.0	9212.8	9254.7	8882.2
57.5°	396.1	398.1	424.7	479.0	602.8	843.3	1486.0	4597.2	10207.5	11166.4	10554.4
60°	354.1	355.1	367.4	401.2	475.9	643.7	1088.9	3700.7	11238.1	13558.2	12719.0
62.5°	327.5	327.5	337.7	357.2	395.0	495.3	800.3	2657.8	11978.0	16160.7	15326.6
65°	301.9	301.9	309.1	325.4	345.9	404.2	600.7	1714.2	12341.3	18336.5	18151.2
67.5°	269.2	270.2	275.3	292.7	311.1	337.7	455.4	1159.5	11587.1	18938.2	19875.7
70°	238.5	239.5	246.6	257.9	273.3	291.7	356.1	799.3	8433.9	15772.8	17771.6
72.5°	204.7	208.8	213.9	226.2	235.4	248.7	290.6	517.8	4907.3	10146.1	11747.7
75°	167.8	173.0	179.1	191.4	197.5	202.6	239.5	369.5	2361.0	5141.6	5854.9
77.5°	130.0	135.1	142.3	153.5	157.6	163.7	183.2	267.1	1130.9	2279.1	2457.2
80°	87.0	89.0	95.2	108.5	115.6	119.7	135.1	182.2	491.2	914.9	906.7
82.5°	53.2	54.2	56.3	64.5	67.5	71.6	88.0	111.6	234.4	1039.8	1192.3
85°	19.4	18.4	17.4	22.5	26.6	30.7	40.9	56.3	102.3	714.3	799.3
87.5°	0.0	0.0	0.0	1.0	2.0	2.0	4.1	8.2	24.6	267.1	183.2
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°	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7	2391.7
2.5°	2399.9	2388.6	2403.0	2413.2	2435.7	2443.9	2446.0	2438.8	2438.8	2426.5	2428.6
5°	2427.5	2420.4	2443.9	2461.3	2494.1	2506.3	2514.5	2509.4	2512.5	2504.3	2506.3
7.5°	2469.5	2463.4	2504.3	2538.1	2571.8	2586.2	2593.3	2589.2	2590.3	2580.0	2583.1
10°	2527.8	2529.9	2579.0	2623.0	2668.0	2682.4	2685.4	2673.2	2662.9	2644.5	2645.5
12.5°	2607.7	2617.9	2687.5	2736.6	2782.7	2803.1	2780.6	2735.6	2693.6	2661.9	2657.8
15°	2694.6	2713.1	2813.4	2875.8	2925.9	2915.7	2849.2	2747.9	2665.0	2617.9	2608.7
17.5°	2799.0	2826.7	2952.5	3027.3	3070.2	3004.7	2865.6	2714.1	2598.4	2535.0	2522.7
20°	2897.3	2941.3	3099.9	3197.1	3202.3	3054.9	2858.4	2645.5	2500.2	2422.4	2406.0
22.5°	2987.3	3043.6	3254.5	3378.3	3311.8	3077.4	2814.4	2548.3	2381.5	2290.4	2276.1
25°	3085.6	3165.4	3434.6	3550.2	3421.3	3068.2	2722.3	2427.5	2238.2	2145.1	2134.8
27.5°	3153.1	3253.4	3615.7	3726.2	3511.3	3016.0	2603.6	2295.5	2107.2	2019.2	2004.9
30°	3230.9	3358.8	3815.3	3917.6	3566.6	2939.2	2476.7	2172.7	1985.4	1890.2	1880.0
32.5°	3372.1	3532.8	4062.9	4120.3	3584.0	2844.1	2354.9	2054.0	1858.5	1763.3	1749.0
35°	3599.3	3787.6	4410.9	4346.4	3570.7	2739.7	2239.2	1914.8	1728.5	1639.5	1625.2
37.5°	3885.9	4120.3	4798.8	4550.1	3533.8	2625.1	2102.1	1798.1	1611.9	1521.8	1513.6
40°	4153.0	4441.6	5233.7	4726.1	3459.1	2483.8	1970.1	1676.3	1486.0	1390.8	1372.4
42.5°	4487.7	4871.4	5737.2	4878.6	3336.3	2315.0	1821.7	1525.9	1328.4	1242.4	1219.9
45°	4996.3	5473.2	6322.6	5025.0	3153.1	2107.2	1635.4	1342.7	1155.4	1067.4	1050.0
47.5°	5630.8	6225.4	6957.2	5111.9	2874.8	1888.2	1424.6	1149.3	962.0	862.7	854.5
50°	6522.2	7319.4	7637.7	5096.6	2563.6	1628.2	1187.2	919.0	762.4	690.8	679.5
52.5°	7608.0	8692.9	8373.6	4912.4	2233.1	1332.5	925.2	721.5	604.8	553.7	544.5
55°	8970.2	10337.5	9148.3	4517.3	1815.5	1020.3	726.6	569.0	489.2	458.5	454.4
57.5°	10656.8	12467.2	9894.3	3852.1	1365.2	778.8	559.8	469.7	431.9	413.5	412.4
60°	12882.7	14727.9	10542.2	2993.5	977.4	595.6	462.6	419.6	389.9	377.6	376.6
62.5°	15529.3	16780.9	10945.4	2038.6	734.8	474.9	407.3	380.7	363.3	356.1	355.1
65°	18249.5	18078.6	10753.0	1335.6	557.8	403.2	365.4	351.0	335.7	328.5	328.5
67.5°	19856.2	17804.3	9276.2	927.2	442.1	354.1	329.5	316.2	290.6	284.5	284.5
70°	17587.3	14427.0	6080.1	678.5	358.2	310.1	286.6	268.1	257.9	251.8	250.7
72.5°	11632.1	9387.8	3233.0	470.8	298.8	264.0	242.5	235.4	223.1	217.0	215.9
75°	5789.4	4930.8	1656.9	339.8	248.7	211.8	202.6	199.6	189.3	181.1	179.1
77.5°	2413.2	2195.2	772.7	246.6	189.3	170.9	162.7	162.7	151.5	142.3	138.2
80°	909.8	810.5	365.4	168.9	140.2	126.9	121.8	117.7	108.5	97.2	91.1
82.5°	1216.8	795.2	179.1	105.4	92.1	81.9	74.7	71.6	66.5	61.4	57.3
85°	788.0	564.9	80.8	54.2	46.1	34.8	30.7	28.7	25.6	22.5	20.5
87.5°	160.7	189.3	24.6	10.2	6.1	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)