

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: P633262

Luminaire Tested: GWS-SA2E-735-U-T1-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P633262  
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-SA2E-735-U-T1-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

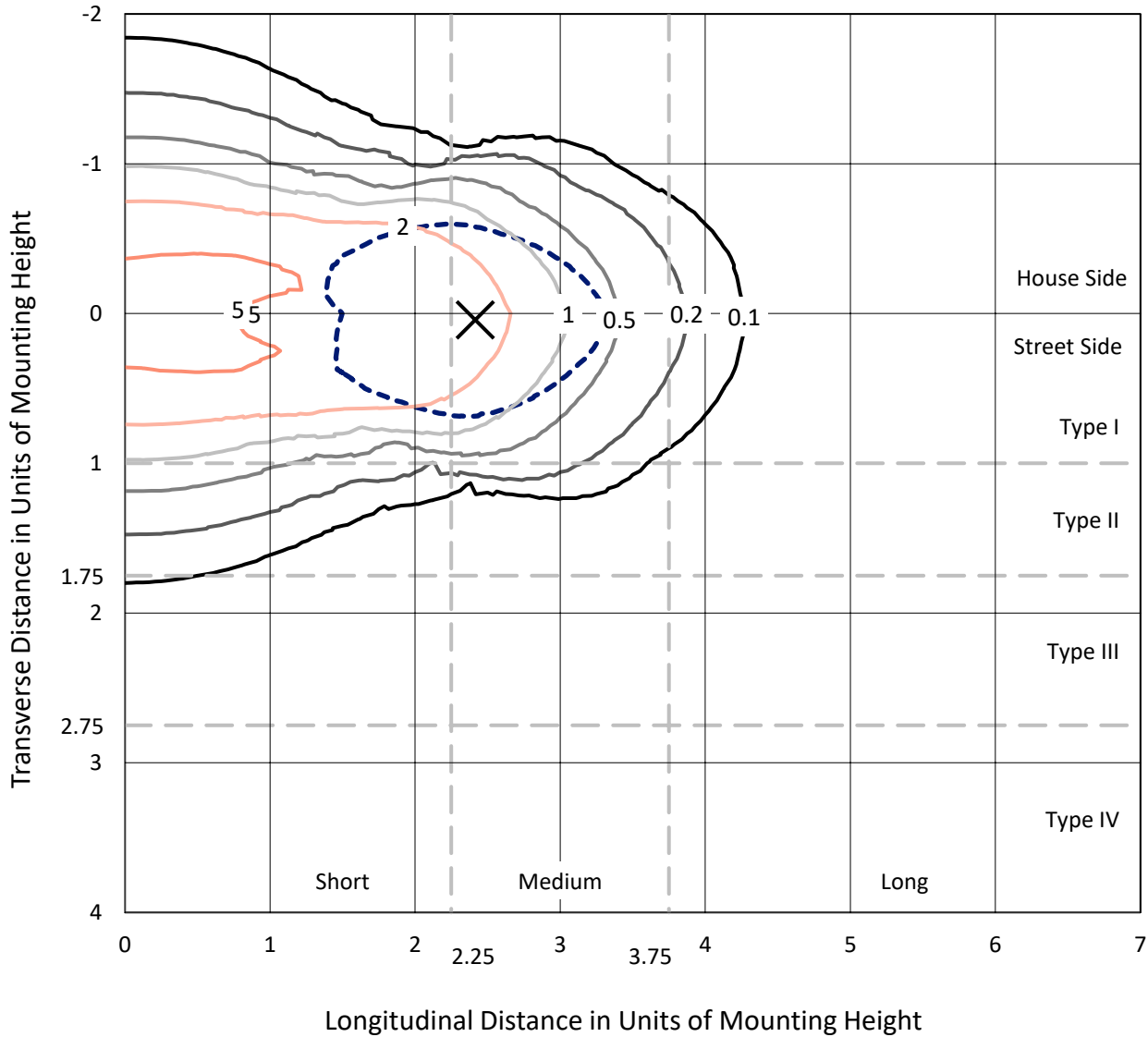
Lumens per Lamp: N/A  
Luminaire Lumens: 14364.8 lumens  
Efficiency: N/A  
Efficacy: 132.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Medium  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 108.2  
Input Voltage (V): 120  
Input Current (Ain): 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

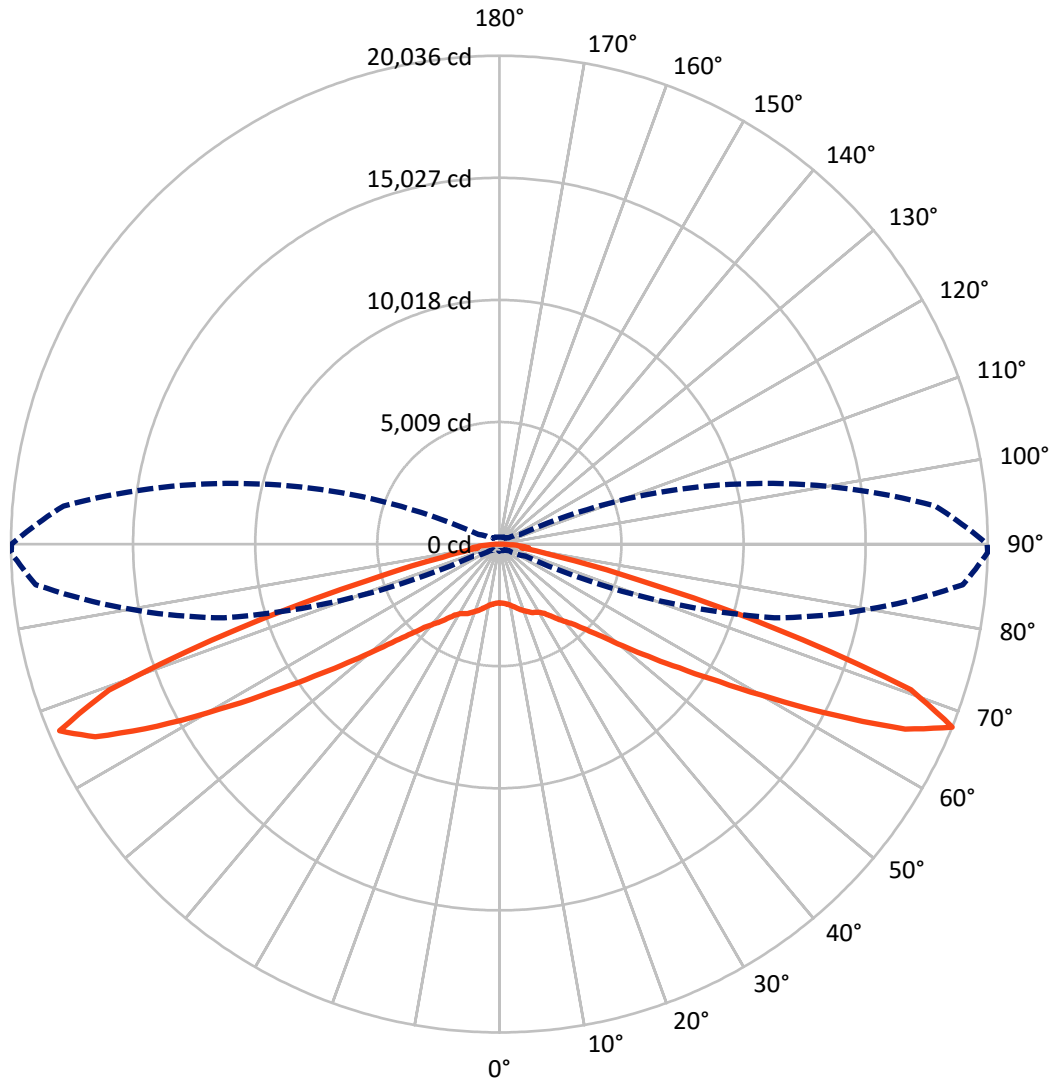
✕ Max cd  
 - - - 1/2 Max cd



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
<b>House Side</b>	Lumens	7119.5	0.0	7119.5
	% Fixture	49.6	0.0	49.6
<b>Street Side</b>	Lumens	7245.4	0.0	7245.4
	% Fixture	50.4	0.0	50.4
<b>Total</b>	Lumens	14364.8	0.0	14364.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.8	1.7
10°-20°	787.5	5.5
20°-30°	1331.2	9.3
30°-40°	1826.9	12.7
40°-50°	2329.7	16.2
50°-60°	2923.0	20.3
60°-70°	3525.3	24.5
70°-80°	1275.4	8.9
80°-90°	124.0	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°	14364.8	100.0
0°-180°	14364.8	100.0

**Coefficient of Utilization**



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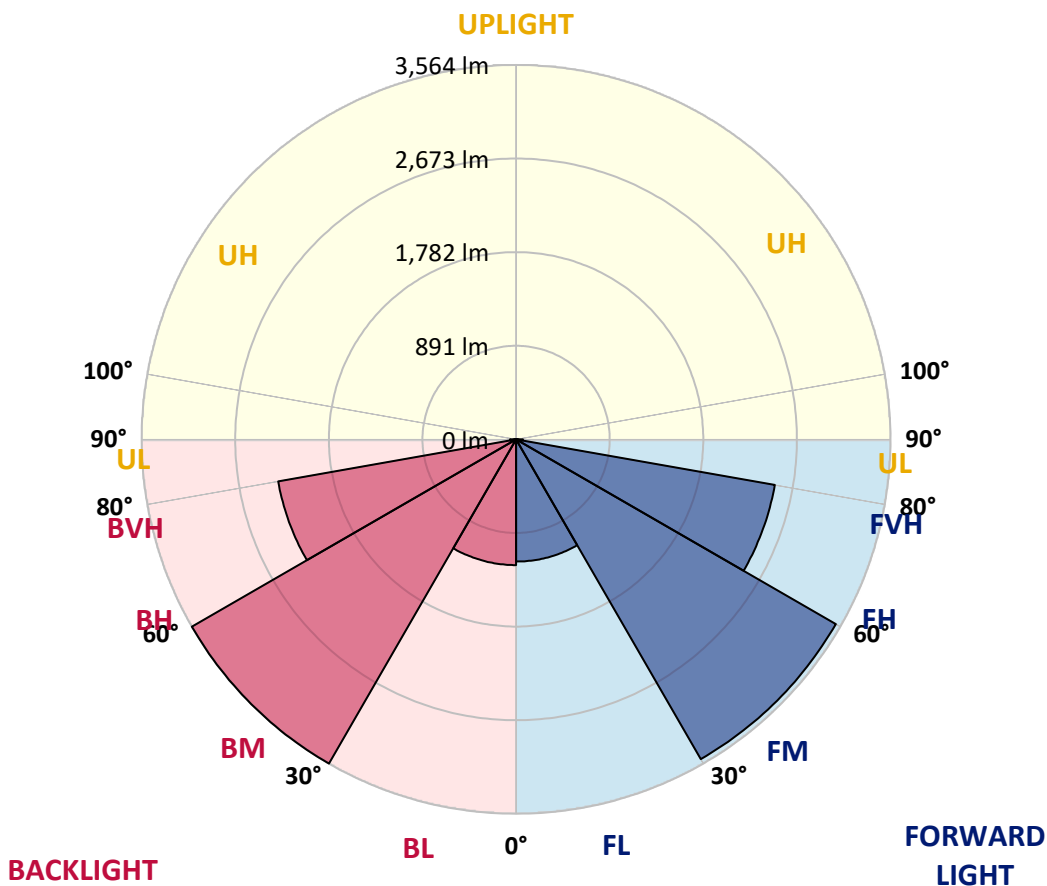
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1163.4	8.1			
FM (30°-60°)	3515.3	24.5			
FH (60°-80°)	2501.1	17.4			G2/5000
FVH (80°-90°)	65.4	0.5			G1/100
BL (0°-30°)	1197.1	8.3	B3/2500		
BM (30°-60°)	3564.2	24.8	B3/5000		
BH (60°-80°)	2299.6	16.0	B3/2500		G3/2500
BVH (80°-90°)	58.6	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°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
2.5°	2418.2	2416.2	2411.0	2426.5	2423.4	2424.4	2430.6	2426.5	2419.3	2406.9	2424.4
5°	2486.3	2485.3	2473.9	2483.2	2472.9	2465.7	2464.7	2454.3	2446.1	2432.7	2451.3
7.5°	2552.4	2551.3	2542.0	2558.5	2550.3	2542.0	2532.8	2512.1	2492.5	2472.9	2493.5
10°	2602.9	2601.9	2599.8	2623.5	2625.6	2628.7	2624.6	2589.5	2555.4	2531.7	2552.4
12.5°	2631.8	2634.9	2640.0	2683.4	2705.0	2725.7	2730.8	2701.9	2645.2	2611.2	2635.9
15°	2612.2	2618.4	2644.2	2722.6	2782.4	2828.8	2848.4	2824.7	2751.5	2694.7	2722.6
17.5°	2518.3	2523.5	2574.0	2693.7	2825.7	2933.0	2965.0	2950.6	2869.1	2800.0	2826.8
20°	2388.3	2399.7	2454.3	2621.5	2818.5	3005.3	3090.9	3085.7	2997.0	2890.7	2922.7
22.5°	2270.7	2284.1	2341.9	2526.6	2770.0	3023.8	3217.8	3231.2	3113.6	2981.5	3007.3
25°	2138.7	2151.0	2225.3	2414.1	2686.5	3009.4	3326.1	3387.0	3245.6	3085.7	3109.5
27.5°	2003.5	2012.8	2086.0	2287.2	2577.1	2982.6	3411.7	3558.2	3375.6	3157.9	3174.5
30°	1884.9	1897.2	1964.3	2160.3	2457.4	2928.9	3481.9	3740.8	3525.2	3239.4	3252.9
32.5°	1770.3	1780.7	1853.9	2035.5	2330.5	2846.4	3544.8	3955.4	3747.0	3391.1	3391.1
35°	1625.9	1644.5	1727.0	1915.8	2210.9	2737.0	3590.2	4205.1	4050.3	3615.0	3616.0
37.5°	1492.8	1503.1	1589.8	1780.7	2085.0	2613.2	3594.3	4464.0	4434.1	3899.7	3901.8
40°	1341.2	1354.6	1447.4	1636.2	1940.6	2483.2	3555.1	4705.5	4836.5	4192.7	4181.4
42.5°	1187.5	1207.1	1295.8	1480.4	1784.8	2324.4	3450.9	4935.5	5347.2	4532.1	4504.3
45°	1038.9	1051.3	1140.0	1314.3	1606.3	2134.5	3283.8	5156.3	5953.8	5048.0	5007.7
47.5°	871.8	876.9	968.7	1135.9	1421.6	1923.0	3044.5	5353.3	6620.2	5730.9	5661.8
50°	723.2	730.4	802.6	946.0	1195.7	1672.3	2746.3	5468.9	7469.3	6662.5	6542.9
52.5°	585.0	592.2	650.0	764.5	988.3	1386.6	2377.0	5442.1	8330.7	7819.0	7644.7
55°	472.5	477.7	516.9	606.6	777.9	1102.9	1940.6	5201.7	9287.1	9329.4	8953.9
57.5°	399.3	401.3	428.1	482.8	607.7	850.1	1498.0	4634.3	10289.9	11256.6	10639.6
60°	357.0	358.0	370.4	404.4	479.7	648.9	1097.7	3730.5	11328.8	13667.6	12821.6
62.5°	330.1	330.1	340.5	360.1	398.2	499.3	806.8	2679.3	12074.7	16291.1	15450.3
65°	304.3	304.3	311.6	328.1	348.7	407.5	605.6	1728.0	12440.9	18484.5	18297.7
67.5°	271.3	272.4	277.5	295.1	313.6	340.5	459.1	1168.9	11680.6	19091.1	20036.1
70°	240.4	241.4	248.6	260.0	275.5	294.0	359.0	805.7	8502.0	15900.1	17915.0
72.5°	206.3	210.5	215.6	228.0	237.3	250.7	293.0	522.0	4946.9	10228.0	11842.6
75°	169.2	174.4	180.5	192.9	199.1	204.3	241.4	372.4	2380.1	5183.1	5902.2
77.5°	131.0	136.2	143.4	154.8	158.9	165.1	184.7	269.3	1140.0	2297.5	2477.0
80°	87.7	89.8	95.9	109.4	116.6	120.7	136.2	183.6	495.2	922.3	914.1
82.5°	53.6	54.7	56.7	65.0	68.1	72.2	88.7	112.5	236.3	1048.2	1201.9
85°	19.6	18.6	17.5	22.7	26.8	31.0	41.3	56.7	103.2	720.1	805.7
87.5°	0.0	0.0	0.0	1.0	2.1	2.1	4.1	8.3	24.8	269.3	184.7
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°	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0	2411.0
2.5°	2419.3	2407.9	2422.4	2432.7	2455.4	2463.6	2465.7	2458.5	2458.5	2446.1	2448.2
5°	2447.1	2439.9	2463.6	2481.2	2514.2	2526.6	2534.8	2529.7	2532.8	2524.5	2526.6
7.5°	2489.4	2483.2	2524.5	2558.5	2592.6	2607.0	2614.3	2610.1	2611.2	2600.8	2603.9
10°	2548.2	2550.3	2599.8	2644.2	2689.6	2704.0	2707.1	2694.7	2684.4	2665.8	2666.9
12.5°	2628.7	2639.0	2709.2	2758.7	2805.1	2825.7	2803.1	2757.7	2715.4	2683.4	2679.3
15°	2716.4	2735.0	2836.1	2899.0	2949.5	2939.2	2872.2	2770.0	2686.5	2639.0	2629.7
17.5°	2821.6	2849.5	2976.4	3051.7	3095.0	3029.0	2888.7	2736.0	2619.4	2555.4	2543.1
20°	2920.7	2965.0	3124.9	3222.9	3228.1	3079.5	2881.5	2666.9	2520.4	2442.0	2425.5
22.5°	3011.4	3068.2	3280.7	3405.5	3338.5	3102.2	2837.1	2568.9	2400.7	2308.9	2294.4
25°	3110.5	3191.0	3462.3	3578.9	3448.9	3093.0	2744.2	2447.1	2256.3	2162.4	2152.1
27.5°	3178.6	3279.7	3644.9	3756.3	3539.7	3040.3	2624.6	2314.0	2124.2	2035.5	2021.0
30°	3257.0	3385.9	3846.1	3949.2	3595.4	2963.0	2496.6	2190.2	2001.4	1905.5	1895.2
32.5°	3399.4	3561.3	4095.7	4153.5	3612.9	2867.0	2373.9	2070.6	1873.5	1777.6	1763.1
35°	3628.4	3818.2	4446.5	4381.5	3599.5	2761.8	2257.3	1930.3	1742.5	1652.7	1638.3
37.5°	3917.3	4153.5	4837.5	4586.8	3562.4	2646.2	2119.1	1812.6	1624.9	1534.1	1525.8
40°	4186.5	4477.5	5276.0	4764.3	3487.0	2503.9	1986.0	1689.9	1498.0	1402.0	1383.5
42.5°	4523.9	4910.8	5783.5	4918.0	3363.2	2333.6	1836.4	1538.2	1339.1	1252.4	1229.8
45°	5036.6	5517.4	6373.7	5065.5	3178.6	2124.2	1648.6	1353.6	1164.8	1076.0	1058.5
47.5°	5676.3	6275.7	7013.3	5153.2	2898.0	1903.4	1436.1	1158.6	969.8	869.7	861.4
50°	6574.8	7378.5	7699.4	5137.7	2584.3	1641.4	1196.7	926.4	768.6	696.4	685.0
52.5°	7669.4	8763.0	8441.1	4952.0	2251.1	1343.2	932.6	727.3	609.7	558.1	548.8
55°	9042.6	10420.9	9222.1	4553.8	1830.2	1028.6	732.5	573.6	493.1	462.2	458.1
57.5°	10742.8	12567.8	9974.2	3883.2	1376.2	785.1	564.3	473.5	435.4	416.8	415.8
60°	12986.7	14846.8	10627.2	3017.6	985.2	600.4	466.3	423.0	393.1	380.7	379.7
62.5°	15654.6	16916.3	11033.7	2055.1	740.7	478.7	410.6	383.8	366.2	359.0	358.0
65°	18396.8	18224.5	10839.8	1346.3	562.3	406.5	368.3	353.9	338.4	331.2	331.2
67.5°	20016.5	17948.0	9351.1	934.7	445.7	357.0	332.2	318.8	293.0	286.8	286.8
70°	17729.3	14543.5	6129.2	684.0	361.1	312.6	288.9	270.3	260.0	253.8	252.8
72.5°	11726.0	9463.5	3259.0	474.6	301.2	266.2	244.5	237.3	224.9	218.7	217.7
75°	5836.2	4970.6	1670.3	342.5	250.7	213.6	204.3	201.2	190.9	182.6	180.5
77.5°	2432.7	2212.9	778.9	248.6	190.9	172.3	164.0	164.0	152.7	143.4	139.3
80°	917.2	817.1	368.3	170.2	141.3	127.9	122.8	118.6	109.4	98.0	91.8
82.5°	1226.7	801.6	180.5	106.3	92.9	82.5	75.3	72.2	67.1	61.9	57.8
85°	794.4	569.5	81.5	54.7	46.4	35.1	31.0	28.9	25.8	22.7	20.6
87.5°	162.0	190.9	24.8	10.3	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)