

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: P632250

Luminaire Tested: GWS-SA2C-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632250  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA2C-735-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

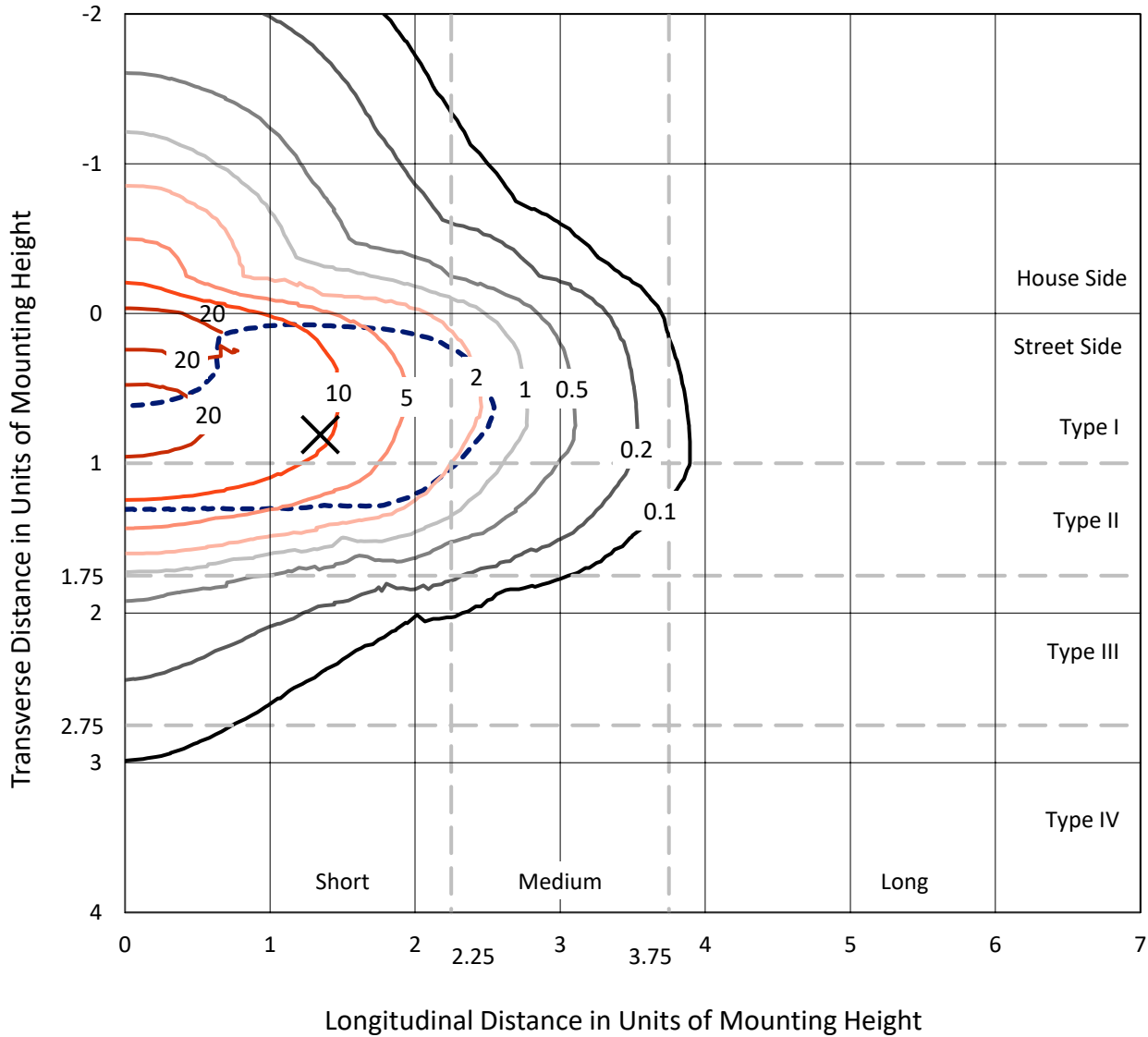
Lumens per Lamp: N/A  
Luminaire Lumens: 9295.6 lumens  
Efficiency: N/A  
Efficacy: 147.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



REPORT NUMBER: P632250  
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

### Iso-Footcandle Lines of Horizontal Illumination

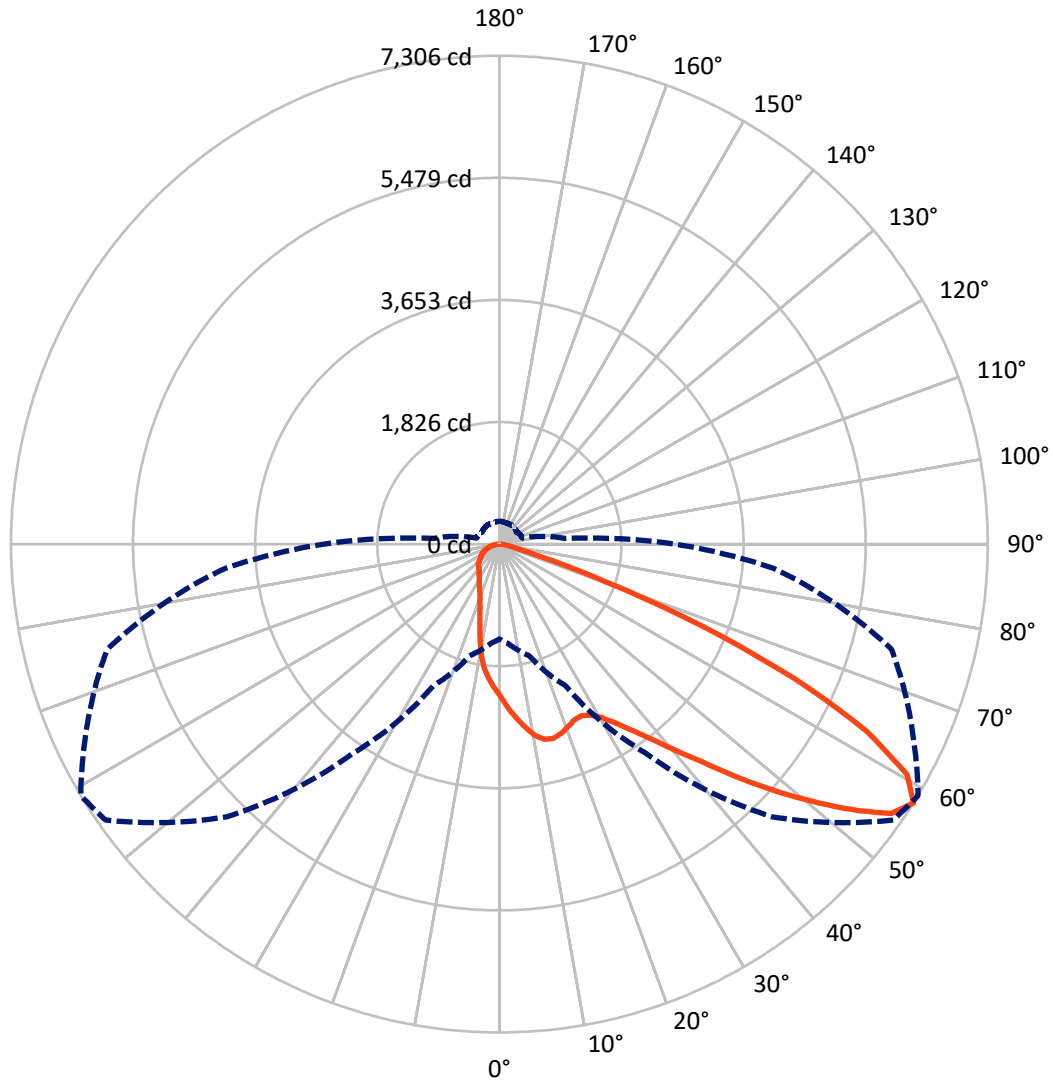
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 27.9 fc  
 Type II - Short - N/A

REPORT NUMBER: P632250  
CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P632250

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1442.6	0.0	1442.6
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	7853.0	0.0	7853.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	9295.6	0.0	9295.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	211.9	2.3
10°-20°	536.9	5.8
20°-30°	870.3	9.4
30°-40°	1400.0	15.1
40°-50°	2174.1	23.4
50°-60°	2341.8	25.2
60°-70°	1359.1	14.6
70°-80°	354.8	3.8
80°-90°	46.7	0.5
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°	9295.6	100.0
0°-180°	9295.6	100.0

**Coefficient of Utilization**



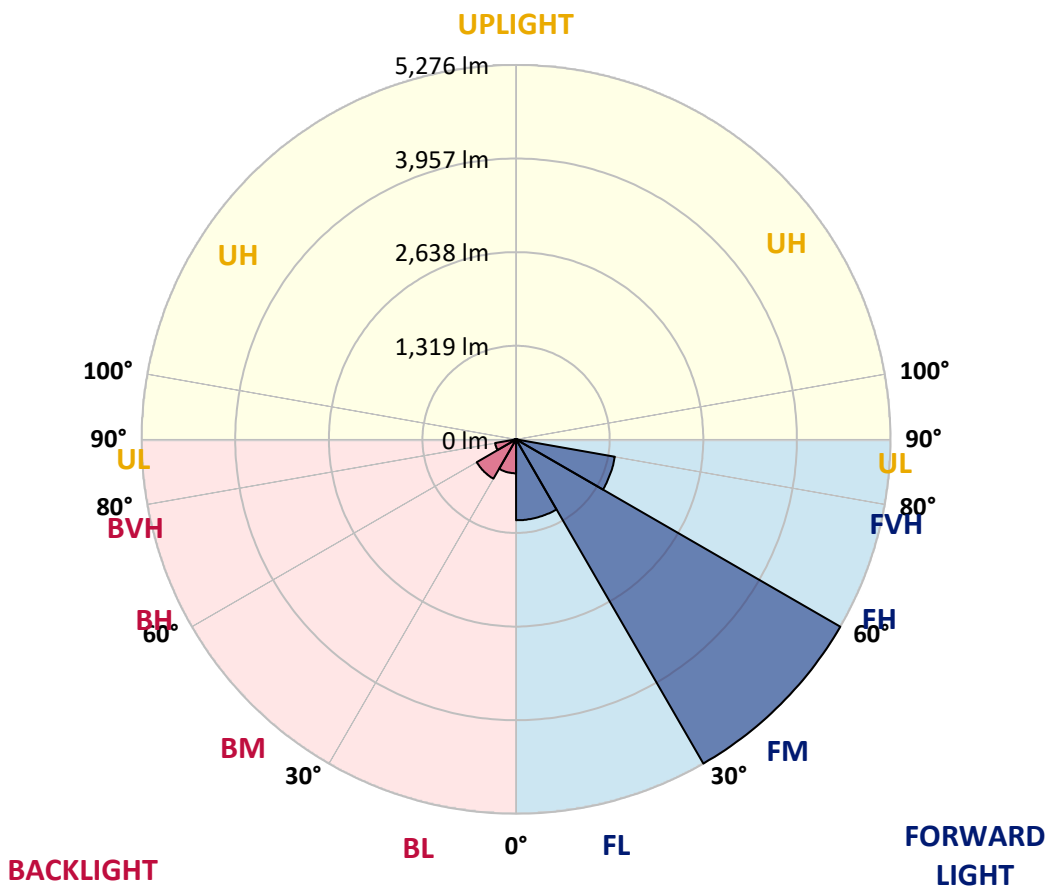
REPORT NUMBER: P632250

CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.5	12.3			
FM (30°-60°)	5276.3	56.8			
FH (60°-80°)	1413.8	15.2			G1/1800
FVH (80°-90°)	22.4	0.2			G1/100
BL (0°-30°)	478.6	5.1	B1/500		
BM (30°-60°)	639.6	6.9	B1/1000		
BH (60°-80°)	300.1	3.2	B1/500		G1/500
BVH (80°-90°)	24.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





REPORT NUMBER: P632250  
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9
2.5°	2588.1	2566.5	2581.6	2554.8	2543.6	2514.2	2476.2	2450.7	2411.5	2360.4	2315.9
5°	2845.3	2830.3	2833.5	2804.7	2779.2	2730.1	2652.3	2609.1	2542.3	2439.6	2344.1
7.5°	2837.5	2855.1	2865.0	2889.8	2897.0	2892.4	2822.4	2762.2	2688.9	2534.5	2390.5
10°	2543.6	2577.0	2607.1	2692.2	2795.6	2926.5	2942.8	2906.8	2832.9	2655.5	2446.1
12.5°	2223.6	2249.2	2276.0	2378.1	2536.4	2798.2	2975.5	2997.8	2968.3	2775.3	2509.0
15°	2066.6	2078.4	2103.9	2171.3	2297.6	2588.1	2918.6	3016.1	3069.1	2902.3	2579.6
17.5°	2060.0	2065.3	2077.7	2113.7	2201.4	2425.9	2815.9	2979.5	3148.3	3036.4	2662.1
20°	2195.5	2181.8	2173.9	2173.3	2216.4	2371.5	2716.4	2920.6	3185.6	3173.8	2750.4
22.5°	2383.3	2387.9	2370.9	2329.0	2323.8	2410.1	2666.7	2861.0	3196.7	3295.5	2832.2
25°	2649.7	2672.6	2622.2	2542.3	2503.1	2522.0	2697.4	2842.7	3195.4	3397.0	2883.3
27.5°	2960.5	2978.2	2927.1	2822.4	2741.3	2695.5	2789.0	2897.0	3206.5	3484.7	2914.0
30°	3314.5	3320.4	3250.4	3140.5	3022.0	2923.8	2941.5	3008.9	3263.5	3599.8	2950.0
32.5°	3747.1	3771.9	3665.9	3491.9	3326.3	3200.7	3146.3	3189.5	3386.5	3736.0	3005.6
35°	4296.1	4304.6	4169.8	3920.5	3686.2	3512.2	3398.3	3421.2	3573.7	3926.4	3089.4
37.5°	4813.7	4822.3	4678.9	4447.3	4112.2	3874.0	3709.1	3698.7	3813.2	4195.3	3226.2
40°	5142.3	5166.5	5102.3	4957.1	4637.1	4315.8	4091.9	4056.0	4127.3	4524.5	3416.6
42.5°	5318.9	5329.4	5328.1	5347.1	5156.7	4837.3	4523.8	4451.9	4499.6	4879.8	3609.0
45°	5320.3	5346.4	5416.4	5599.0	5607.5	5408.6	5069.6	4957.1	4913.2	5237.8	3809.9
47.5°	5082.1	5110.2	5302.6	5661.8	5926.9	5972.0	5723.4	5497.6	5313.1	5546.0	3974.8
50°	4360.9	4431.6	4798.0	5433.5	5989.7	6423.6	6347.0	6040.7	5668.4	5784.2	4078.2
52.5°	3734.6	3732.0	3957.8	4788.2	5727.3	6622.5	6950.4	6599.6	6019.8	5935.4	4104.4
55°	2734.7	2749.8	2980.8	3662.0	5027.1	6430.1	7282.1	7114.0	6422.9	6015.9	4093.9
57.5°	1418.1	1492.7	1729.6	2336.9	3819.7	5767.9	7193.8	7305.7	6832.6	6072.8	4107.7
60°	716.6	702.2	787.2	1115.7	2213.2	4504.9	6649.3	7006.0	6906.5	6117.3	4116.2
62.5°	478.4	474.4	450.9	517.0	904.4	2668.0	5668.4	6168.4	6392.8	6012.6	4007.5
65°	414.2	406.4	363.2	360.6	439.1	1106.6	4154.8	4849.1	5283.6	5547.3	3747.7
67.5°	373.0	361.2	317.4	295.8	315.4	486.2	2341.4	3252.4	3901.5	4691.4	3178.4
70°	333.1	327.2	283.4	251.9	250.0	296.4	862.5	1678.5	2387.2	3200.7	2323.8
72.5°	298.4	287.9	250.6	220.5	205.5	210.1	374.3	646.5	1235.5	1996.6	1389.9
75°	258.5	250.6	217.9	187.8	169.5	153.8	228.4	299.1	563.4	948.9	656.4
77.5°	199.6	194.4	172.1	149.2	138.7	114.5	138.7	188.5	260.5	399.8	341.6
80°	115.8	119.1	128.3	116.5	102.1	81.8	90.3	108.6	156.4	216.6	193.7
82.5°	58.2	62.2	83.1	67.4	60.9	47.8	53.7	64.1	81.8	119.8	75.9
85°	4.6	4.6	15.1	17.0	20.9	17.0	21.6	26.2	37.3	47.8	25.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.3	5.9	11.1	7.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P632250  
 CATALOG NUMBER: GWS-SA2C-735-U-AFL-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9	2281.9
2.5°	2285.8	2252.4	2212.5	2179.8	2129.4	2102.6	2068.6	2026.7	2009.7	2001.8	1997.2
5°	2290.4	2231.5	2146.4	2067.9	1980.9	1912.1	1835.6	1755.7	1709.9	1698.8	1691.0
7.5°	2307.4	2225.0	2089.5	1959.9	1798.3	1648.4	1502.5	1357.9	1283.9	1255.8	1253.2
10°	2331.0	2222.3	2031.9	1816.6	1543.7	1306.8	1136.0	1022.8	975.1	959.3	954.1
12.5°	2360.4	2220.4	1956.0	1617.7	1249.9	1026.1	928.6	910.3	916.8	915.5	915.5
15°	2397.7	2223.0	1864.4	1392.6	1011.0	890.6	892.6	914.2	934.5	937.8	937.8
17.5°	2438.3	2220.4	1731.5	1166.8	867.7	858.6	888.7	918.8	937.1	939.7	939.7
20°	2482.1	2207.9	1564.0	954.1	804.9	838.3	871.0	894.6	905.7	908.3	908.3
22.5°	2508.3	2172.6	1382.1	807.5	765.0	806.2	827.8	852.0	853.3	832.4	831.7
25°	2504.4	2106.5	1174.6	713.3	722.5	758.4	785.9	768.9	748.0	736.2	734.2
27.5°	2479.5	2007.0	963.3	642.0	672.1	712.6	704.1	689.7	684.5	671.4	670.1
30°	2448.1	1884.7	773.5	586.3	619.7	657.0	643.9	642.6	637.4	623.0	623.0
32.5°	2418.0	1758.4	630.2	545.1	586.3	589.0	607.3	608.6	606.0	581.1	578.5
35°	2409.5	1632.1	533.3	512.4	553.6	552.3	578.5	577.8	532.7	498.0	497.3
37.5°	2435.0	1503.8	475.7	485.6	508.5	525.5	546.4	508.5	493.4	472.5	471.2
40°	2489.3	1385.4	446.3	469.9	479.7	504.5	471.8	474.4	470.5	454.8	452.8
42.5°	2561.3	1284.6	429.9	464.6	463.3	469.9	433.9	444.3	450.2	438.4	436.5
45°	2630.7	1196.9	421.4	445.0	451.5	413.6	406.4	416.2	425.4	420.8	418.8
47.5°	2681.7	1121.0	416.9	418.2	436.5	394.6	382.8	387.4	398.5	400.5	399.8
50°	2697.4	1056.2	411.6	395.9	392.0	375.6	366.5	365.2	378.2	387.4	388.7
52.5°	2667.3	998.6	397.9	376.3	357.3	359.9	356.6	350.1	363.2	375.6	376.9
55°	2622.8	965.9	376.3	357.3	335.1	345.5	346.8	340.9	349.4	358.0	358.0
57.5°	2626.1	984.9	355.3	339.6	315.4	329.2	336.4	333.7	333.7	340.3	340.9
60°	2647.7	1012.4	341.6	317.4	295.8	310.2	326.5	323.9	318.0	326.5	326.5
62.5°	2585.5	975.7	332.4	295.8	274.8	291.9	311.5	310.2	303.6	317.4	318.7
65°	2402.3	877.5	322.0	269.0	253.9	273.5	290.6	295.1	289.2	307.6	310.8
67.5°	2013.6	738.2	301.7	243.4	233.0	251.3	267.6	274.2	269.6	291.2	293.8
70°	1501.2	597.5	269.6	215.3	207.4	223.8	238.9	241.5	242.1	267.6	270.3
72.5°	957.4	464.6	227.1	183.9	178.0	190.4	201.6	212.0	216.6	240.8	240.2
75°	534.0	345.5	182.6	155.7	145.3	155.1	168.2	180.6	193.7	229.0	233.0
77.5°	307.6	242.8	144.6	125.0	112.6	123.0	134.2	151.8	191.1	221.8	217.9
80°	173.4	157.7	109.3	91.6	83.8	91.6	100.1	133.5	150.5	163.6	165.6
82.5°	81.1	88.3	74.6	56.3	56.3	61.5	69.4	103.4	113.9	92.9	81.1
85°	29.4	39.9	36.6	28.8	25.5	24.9	43.2	58.9	36.6	32.7	28.1
87.5°	7.9	11.1	10.5	7.2	3.9	3.3	0.0	0.0	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)