

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: P632305

Luminaire Tested: GWS-SA2C-740-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632305  
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-740-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (32) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

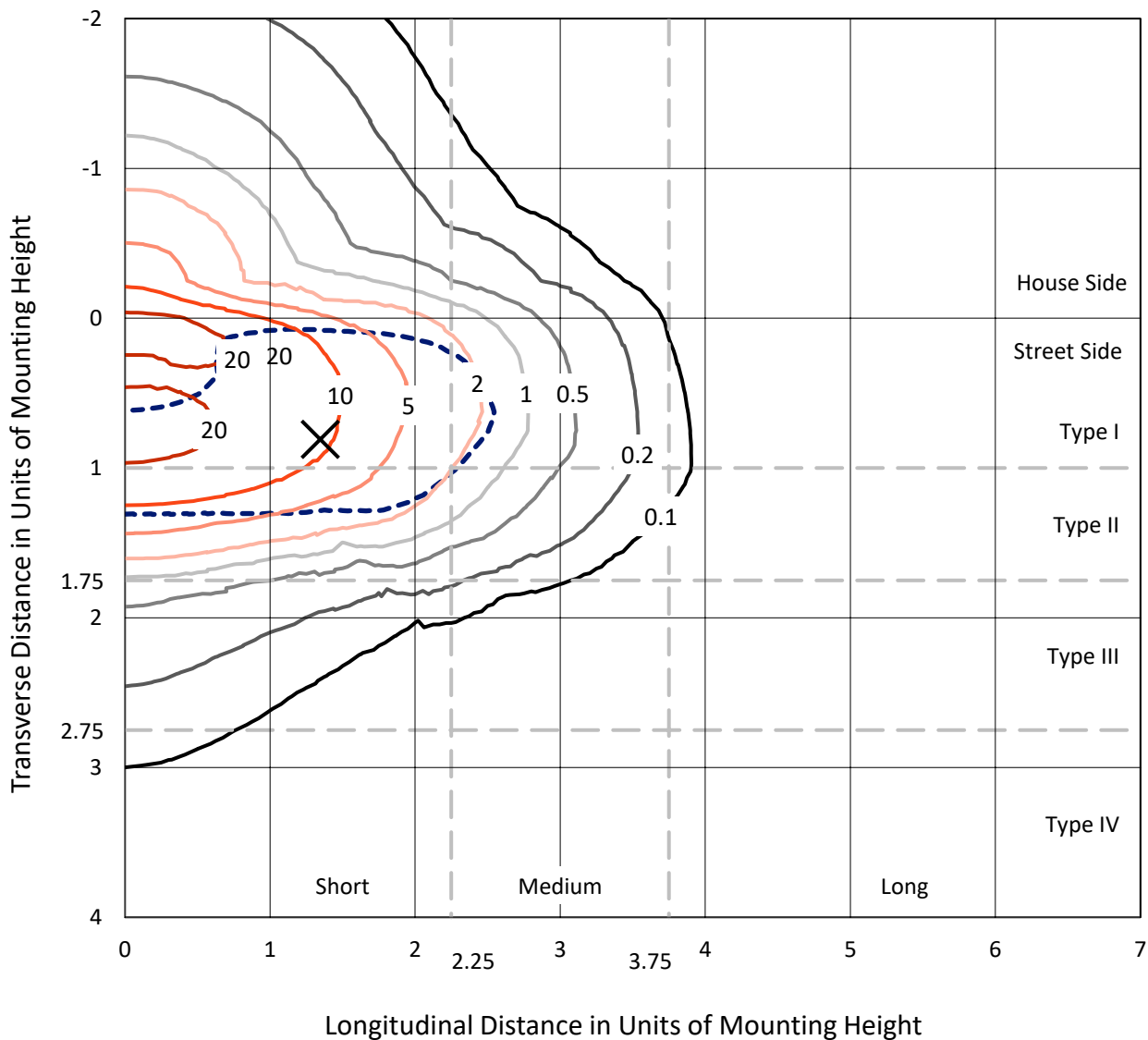
Lumens per Lamp: N/A  
Luminaire Lumens: 9424.8 lumens  
Efficiency: N/A  
Efficacy: 149.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

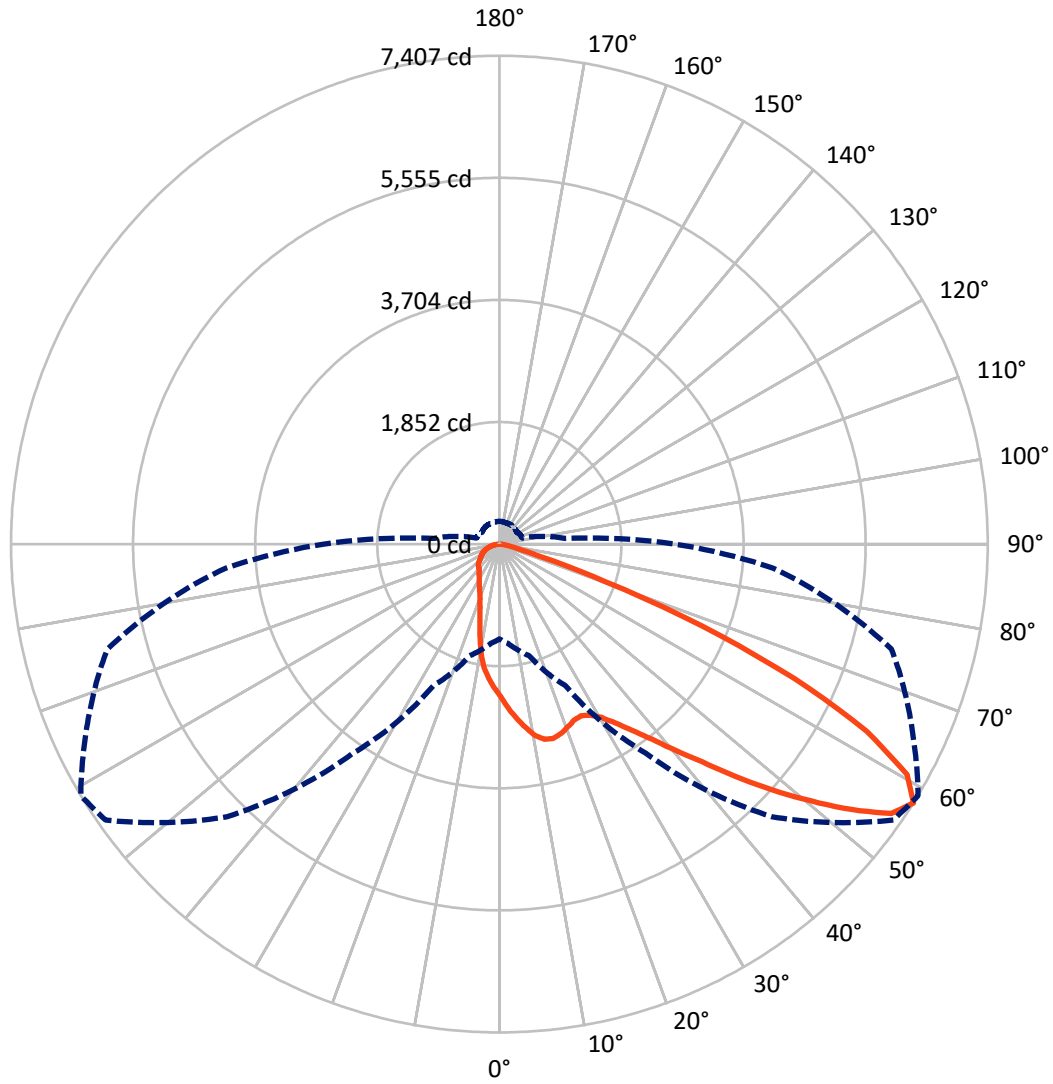
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1462.7	0.0	1462.7
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	7962.1	0.0	7962.1
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	9424.8	0.0	9424.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.8	2.3
10°-20°	544.4	5.8
20°-30°	882.4	9.4
30°-40°	1419.5	15.1
40°-50°	2204.3	23.4
50°-60°	2374.3	25.2
60°-70°	1378.0	14.6
70°-80°	359.7	3.8
80°-90°	47.4	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°	9424.8	100.0
0°-180°	9424.8	100.0

**Coefficient of Utilization**



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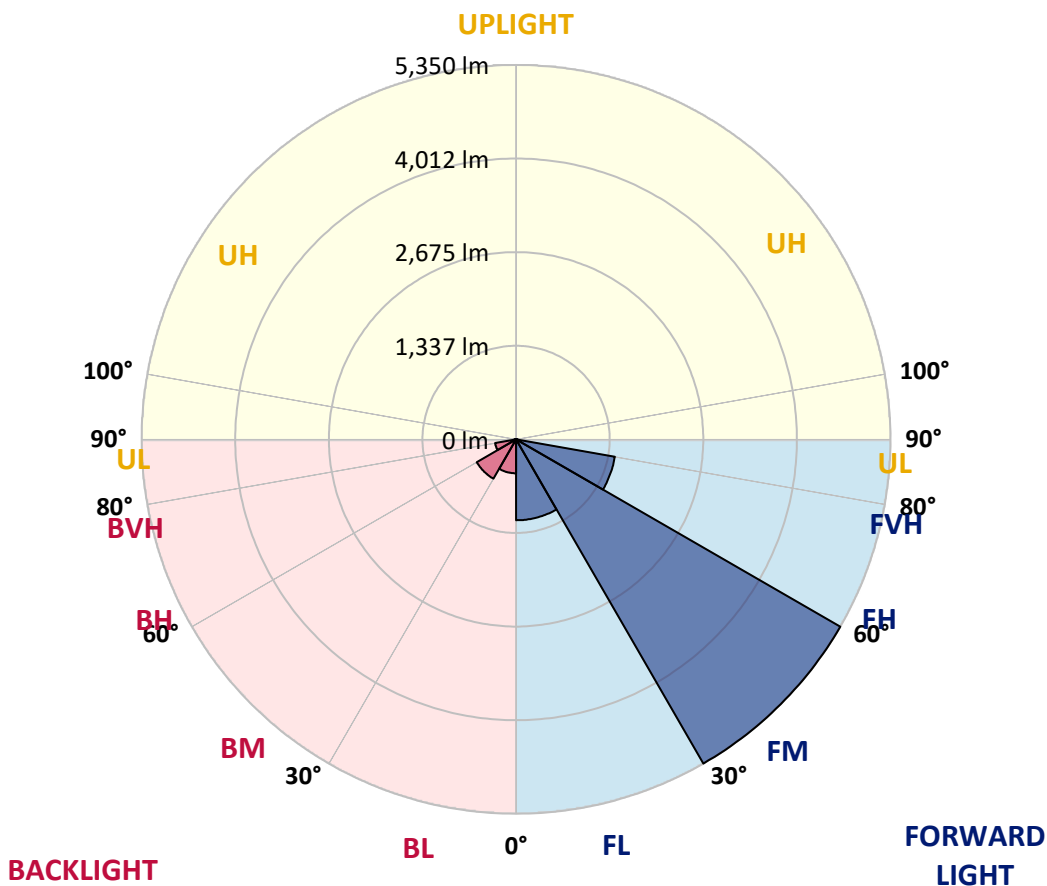
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.3	12.3			
FM (30°-60°)	5349.6	56.8			
FH (60°-80°)	1433.5	15.2			G1/1800
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	485.3	5.1	B1/500		
BM (30°-60°)	648.5	6.9	B1/1000		
BH (60°-80°)	304.2	3.2	B1/500		G1/500
BVH (80°-90°)	24.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2.5°	2624.1	2602.2	2617.5	2590.3	2579.0	2549.1	2510.7	2484.8	2445.0	2393.2	2348.1
5°	2884.9	2869.6	2872.9	2843.7	2817.9	2768.1	2689.1	2645.3	2577.7	2473.5	2376.6
7.5°	2876.9	2894.8	2904.8	2930.0	2937.3	2932.6	2861.6	2800.6	2726.3	2569.7	2423.7
10°	2579.0	2612.8	2643.4	2729.6	2834.4	2967.1	2983.7	2947.2	2872.3	2692.5	2480.1
12.5°	2254.5	2280.4	2307.6	2411.1	2571.7	2837.1	3016.9	3039.5	3009.6	2813.9	2543.8
15°	2095.3	2107.3	2133.1	2201.5	2329.5	2624.1	2959.2	3058.0	3111.8	2942.6	2615.5
17.5°	2088.7	2094.0	2106.6	2143.1	2232.0	2459.6	2855.0	3020.9	3192.1	3078.6	2699.1
20°	2226.0	2212.1	2204.1	2203.5	2247.3	2404.5	2754.2	2961.2	3229.9	3217.9	2788.7
22.5°	2416.4	2421.1	2403.8	2361.4	2356.1	2443.6	2703.7	2900.8	3241.2	3341.4	2871.6
25°	2686.5	2709.7	2658.6	2577.7	2537.9	2557.1	2734.9	2882.2	3239.8	3444.2	2923.3
27.5°	3001.6	3019.6	2967.8	2861.6	2779.4	2732.9	2827.8	2937.3	3251.1	3533.1	2954.5
30°	3360.6	3366.6	3295.6	3184.1	3064.0	2964.5	2982.4	3050.7	3308.8	3649.9	2991.0
32.5°	3799.2	3824.4	3716.9	3540.4	3372.5	3245.1	3190.1	3233.9	3433.6	3787.9	3047.4
35°	4355.8	4364.5	4227.8	3975.0	3737.5	3561.0	3445.5	3468.7	3623.3	3981.0	3132.4
37.5°	4880.7	4889.3	4744.0	4509.1	4169.4	3927.9	3760.7	3750.1	3866.2	4253.7	3271.0
40°	5213.7	5238.3	5173.3	5026.0	4701.5	4375.7	4148.8	4112.3	4184.7	4587.4	3464.1
42.5°	5392.9	5403.5	5402.2	5421.4	5228.3	4904.5	4586.7	4513.7	4562.2	4947.7	3659.2
45°	5394.2	5420.7	5491.7	5676.8	5685.5	5483.8	5140.1	5026.0	4981.5	5310.6	3862.9
47.5°	5152.7	5181.2	5376.3	5740.5	6009.3	6055.0	5802.9	5574.0	5386.9	5623.1	4030.1
50°	4421.5	4493.2	4864.7	5509.0	6073.0	6512.8	6435.2	6124.7	5747.2	5864.6	4134.9
52.5°	3786.6	3783.9	4012.8	4854.8	5806.9	6714.5	7047.0	6691.3	6103.5	6017.9	4161.4
55°	2772.7	2788.0	3022.2	3712.9	5097.0	6519.5	7383.3	7212.8	6512.2	6099.5	4150.8
57.5°	1437.8	1513.4	1753.6	2369.3	3872.8	5848.0	7293.8	7407.2	6927.5	6157.2	4164.7
60°	726.5	711.9	798.2	1131.3	2243.9	4567.5	6741.8	7103.4	7002.5	6202.3	4173.4
62.5°	485.0	481.0	457.1	524.2	916.9	2705.1	5747.2	6254.1	6481.7	6096.2	4063.2
65°	420.0	412.0	368.2	365.6	445.2	1122.0	4212.5	4916.5	5357.0	5624.4	3799.8
67.5°	378.2	366.2	321.8	299.9	319.8	493.0	2374.0	3297.6	3955.7	4756.6	3222.6
70°	337.7	331.7	287.3	255.4	253.5	300.6	874.5	1701.9	2420.4	3245.1	2356.1
72.5°	302.6	291.9	254.1	223.6	208.3	213.0	379.5	655.5	1252.7	2024.3	1409.3
75°	262.1	254.1	220.9	190.4	171.8	155.9	231.6	303.2	571.3	962.1	665.5
77.5°	202.4	197.1	174.5	151.3	140.7	116.1	140.7	191.1	264.1	405.4	346.3
80°	117.4	120.8	130.0	118.1	103.5	82.9	91.6	110.1	158.6	219.6	196.4
82.5°	59.1	63.0	84.3	68.3	61.7	48.4	54.4	65.0	82.9	121.4	77.0
85°	4.6	4.6	15.3	17.3	21.2	17.3	21.9	26.5	37.8	48.4	25.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.0	3.3	6.0	11.3	7.3
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°	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6	2313.6
2.5°	2317.6	2283.7	2243.3	2210.1	2159.0	2131.8	2097.3	2054.8	2037.6	2029.6	2025.0
5°	2322.2	2262.5	2176.3	2096.6	2008.4	1938.7	1861.1	1780.2	1733.7	1722.4	1714.5
7.5°	2339.5	2255.9	2118.5	1987.2	1823.3	1671.3	1523.4	1376.7	1301.8	1273.2	1270.6
10°	2363.4	2253.2	2060.1	1841.9	1565.2	1325.0	1151.8	1037.0	988.6	972.7	967.4
12.5°	2393.2	2251.2	1983.2	1640.2	1267.3	1040.4	941.5	922.9	929.6	928.2	928.2
15°	2431.0	2253.9	1890.3	1411.9	1025.1	903.0	905.0	926.9	947.5	950.8	950.8
17.5°	2472.2	2251.2	1755.6	1183.0	879.8	870.5	901.0	931.5	950.1	952.8	952.8
20°	2516.6	2238.6	1585.7	967.4	816.1	849.9	883.1	907.0	918.3	920.9	920.9
22.5°	2543.2	2202.8	1401.3	818.8	775.6	817.4	839.3	863.9	865.2	844.0	843.3
25°	2539.2	2135.8	1191.0	723.2	732.5	769.0	796.9	779.6	758.4	746.4	744.4
27.5°	2514.0	2034.9	976.7	650.9	681.4	722.5	713.9	699.3	694.0	680.7	679.4
30°	2482.1	1910.9	784.2	594.5	628.3	666.1	652.9	651.6	646.2	631.6	631.6
32.5°	2451.6	1782.8	638.9	552.7	594.5	597.1	615.7	617.0	614.4	589.2	586.5
35°	2443.0	1654.8	540.7	519.5	561.3	560.0	586.5	585.9	540.1	504.9	504.3
37.5°	2468.9	1524.7	482.4	492.3	515.5	532.8	554.0	515.5	500.3	479.0	477.7
40°	2523.9	1404.6	452.5	476.4	486.3	511.6	478.4	481.0	477.1	461.1	459.1
42.5°	2596.9	1302.4	435.9	471.1	469.8	476.4	439.9	450.5	456.5	444.5	442.5
45°	2667.2	1213.5	427.3	451.2	457.8	419.3	412.0	422.0	431.3	426.6	424.6
47.5°	2719.0	1136.6	422.6	424.0	442.5	400.1	388.1	392.8	404.1	406.1	405.4
50°	2734.9	1070.9	417.3	401.4	397.4	380.8	371.6	370.2	383.5	392.8	394.1
52.5°	2704.4	1012.5	403.4	381.5	362.3	364.9	361.6	355.0	368.2	380.8	382.2
55°	2659.3	979.3	381.5	362.3	339.7	350.3	351.7	345.7	354.3	362.9	362.9
57.5°	2662.6	998.6	360.3	344.4	319.8	333.7	341.0	338.4	338.4	345.0	345.7
60°	2684.5	1026.4	346.3	321.8	299.9	314.5	331.1	328.4	322.5	331.1	331.1
62.5°	2621.5	989.3	337.1	299.9	278.7	295.9	315.8	314.5	307.9	321.8	323.1
65°	2435.7	889.7	326.4	272.7	257.4	277.3	294.6	299.2	293.3	311.8	315.2
67.5°	2041.6	748.4	305.9	246.8	236.2	254.8	271.4	278.0	273.4	295.3	297.9
70°	1522.1	605.8	273.4	218.3	210.3	226.9	242.2	244.8	245.5	271.4	274.0
72.5°	970.7	471.1	230.2	186.4	180.5	193.1	204.4	215.0	219.6	244.2	243.5
75°	541.4	350.3	185.1	157.9	147.3	157.2	170.5	183.1	196.4	232.2	236.2
77.5°	311.8	246.2	146.6	126.7	114.1	124.7	136.0	153.9	193.7	224.9	220.9
80°	175.8	159.9	110.8	92.9	84.9	92.9	101.5	135.4	152.6	165.9	167.9
82.5°	82.3	89.6	75.6	57.1	57.1	62.4	70.3	104.8	115.4	94.2	82.3
85°	29.9	40.5	37.2	29.2	25.9	25.2	43.8	59.7	37.2	33.2	28.5
87.5°	8.0	11.3	10.6	7.3	4.0	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)