

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: P632745

Luminaire Tested: GWS-SA2D-735-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632745  
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-SA2D-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**

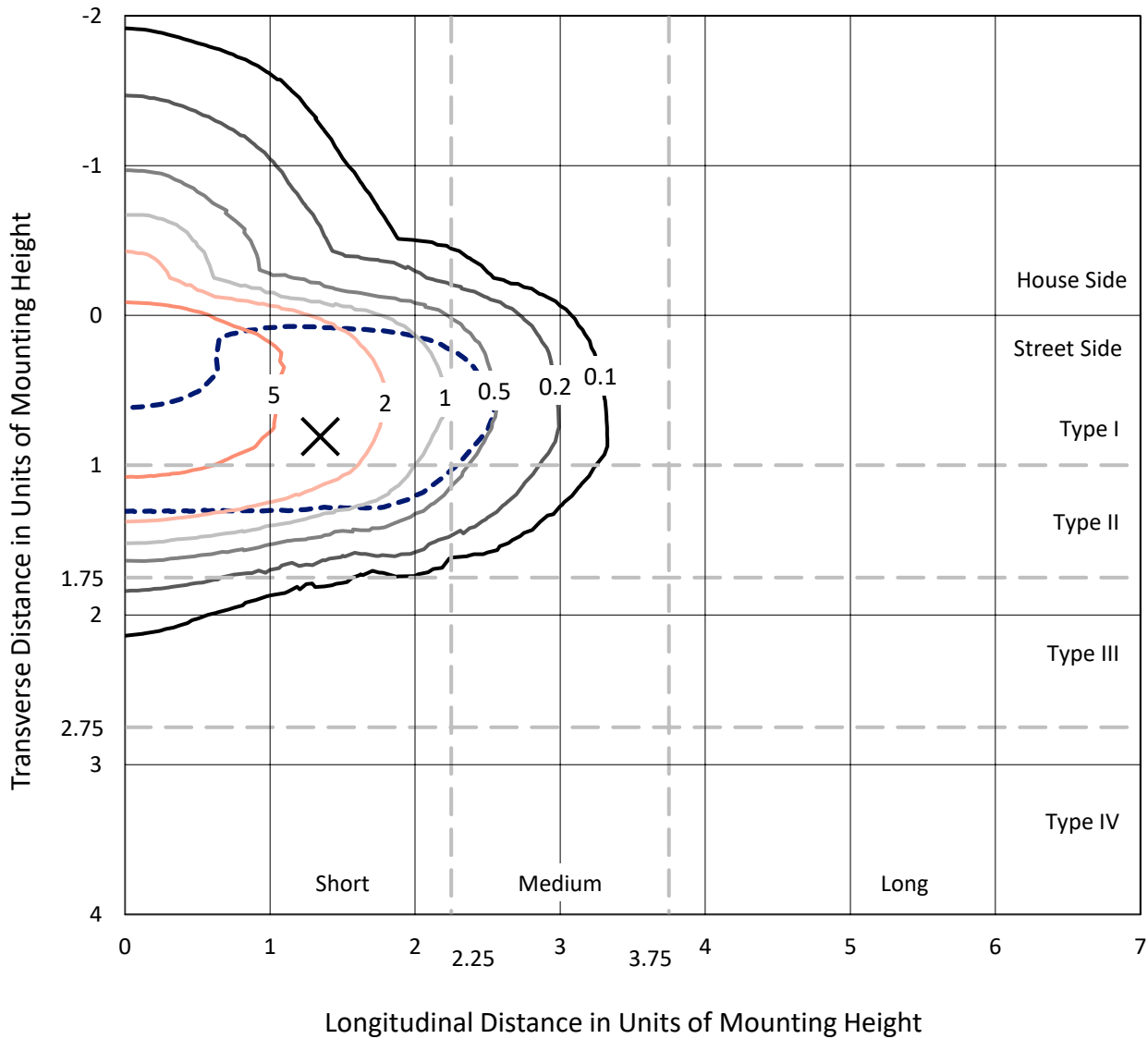
Lumens per Lamp: N/A  
Luminaire Lumens: 11727 lumens  
Efficiency: N/A  
Efficacy: 142.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 82.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

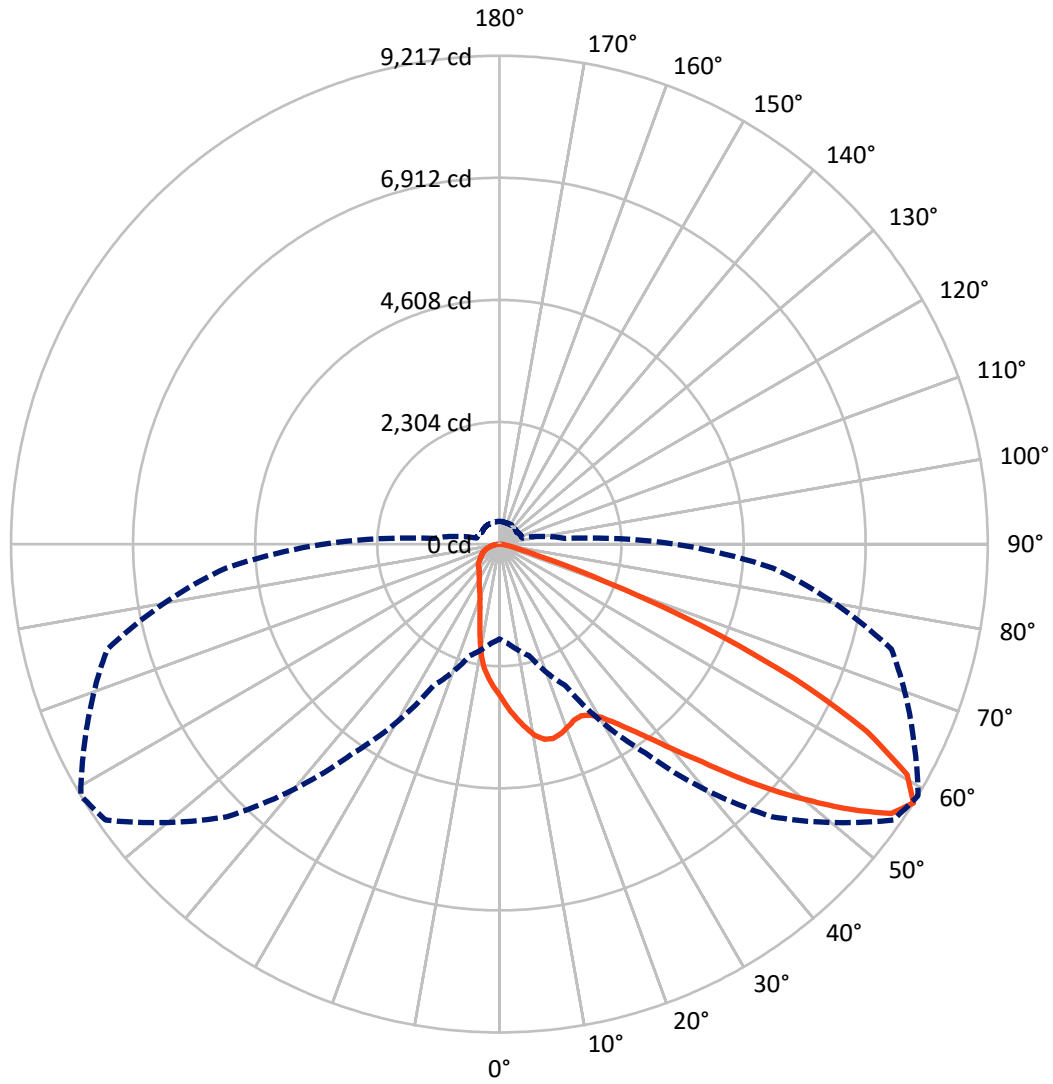
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.8 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	1820.0	0.0	1820.0
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	9907.0	0.0	9907.0
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	11727.0	0.0	11727.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	267.3	2.3
10°-20°	677.3	5.8
20°-30°	1098.0	9.4
30°-40°	1766.2	15.1
40°-50°	2742.8	23.4
50°-60°	2954.3	25.2
60°-70°	1714.6	14.6
70°-80°	447.6	3.8
80°-90°	59.0	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°	11727.0	100.0
0°-180°	11727.0	100.0

**Coefficient of Utilization**



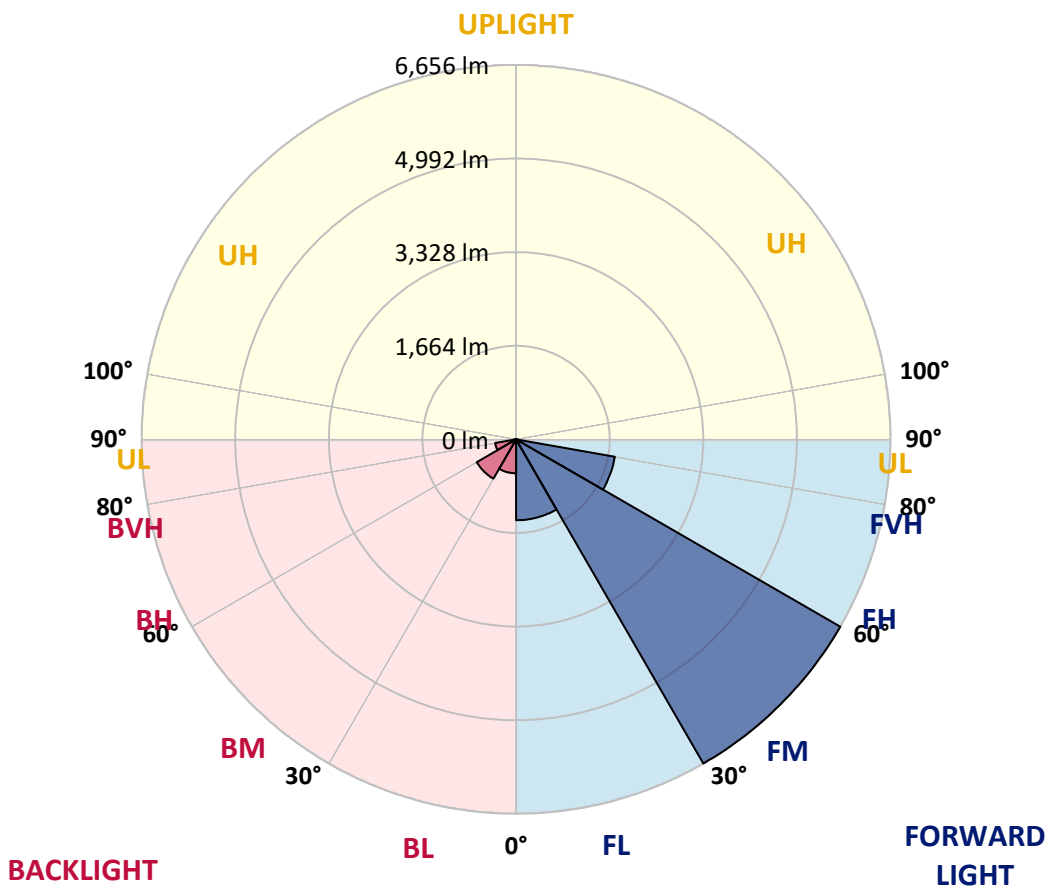
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1438.8	12.3			
FM (30°-60°)	6656.4	56.8			
FH (60°-80°)	1783.6	15.2			G1/1800
FVH (80°-90°)	28.2	0.2			G1/100
BL (0°-30°)	603.8	5.1	B2/1000		
BM (30°-60°)	806.9	6.9	B1/1000		
BH (60°-80°)	378.5	3.2	B1/500		G1/500
BVH (80°-90°)	30.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7
2.5°	3265.1	3237.9	3256.9	3223.0	3209.0	3171.8	3123.9	3091.7	3042.2	2977.8	2921.7
5°	3589.6	3570.6	3574.7	3538.4	3506.2	3444.3	3346.0	3291.5	3207.3	3077.7	2957.2
7.5°	3579.6	3601.9	3614.3	3645.7	3654.8	3649.0	3560.7	3484.7	3392.2	3197.4	3015.8
10°	3209.0	3251.1	3289.0	3396.4	3526.8	3691.9	3712.6	3667.2	3573.9	3350.1	3086.0
12.5°	2805.3	2837.5	2871.3	3000.1	3199.9	3530.1	3753.8	3781.9	3744.8	3501.2	3165.2
15°	2607.1	2622.0	2654.2	2739.2	2898.6	3265.1	3682.0	3805.0	3871.9	3661.4	3254.4
17.5°	2598.9	2605.5	2621.2	2666.6	2777.2	3060.4	3552.4	3758.8	3971.8	3830.6	3358.4
20°	2769.8	2752.4	2742.5	2741.7	2796.2	2991.8	3426.9	3684.5	4018.8	4004.0	3469.8
22.5°	3006.7	3012.5	2991.0	2938.2	2931.6	3040.6	3364.2	3609.4	4032.9	4157.5	3573.0
25°	3342.7	3371.6	3308.0	3207.3	3157.8	3181.7	3403.0	3586.3	4031.2	4285.5	3637.4
27.5°	3734.9	3757.1	3692.8	3560.7	3458.3	3400.5	3518.6	3654.8	4045.3	4396.1	3676.2
30°	4181.5	4188.9	4100.6	3961.9	3812.5	3688.6	3710.9	3795.9	4117.1	4541.4	3721.6
32.5°	4727.2	4758.6	4624.8	4405.2	4196.3	4037.8	3969.3	4023.8	4272.3	4713.1	3791.8
35°	5419.8	5430.6	5260.5	4946.0	4650.4	4430.8	4287.2	4316.1	4508.4	4953.4	3897.5
37.5°	6072.9	6083.6	5902.8	5610.5	5187.8	4887.3	4679.3	4666.1	4810.6	5292.7	4070.0
40°	6487.3	6517.8	6436.9	6253.7	5850.0	5444.6	5162.3	5116.8	5206.8	5708.0	4310.3
42.5°	6710.2	6723.4	6721.7	6745.7	6505.4	6102.6	5707.1	5616.3	5676.6	6156.2	4553.0
45°	6711.8	6744.9	6833.2	7063.5	7074.3	6823.3	6395.6	6253.7	6198.3	6607.8	4806.4
47.5°	6411.3	6446.8	6689.6	7142.8	7477.1	7534.1	7220.4	6935.6	6702.8	6996.7	5014.5
50°	5501.6	5590.7	6053.0	6854.7	7556.4	8103.7	8007.2	7620.8	7151.0	7297.2	5144.9
52.5°	4711.5	4708.2	4993.0	6040.7	7225.3	8354.7	8768.3	8325.8	7594.4	7487.9	5177.9
55°	3450.0	3469.0	3760.4	4619.9	6342.0	8112.0	9186.9	8974.7	8102.9	7589.4	5164.7
57.5°	1789.0	1883.1	2182.0	2948.1	4818.8	7276.5	9075.4	9216.6	8619.7	7661.2	5182.1
60°	904.0	885.8	993.2	1407.6	2792.1	5683.2	8388.6	8838.5	8713.0	7717.4	5192.8
62.5°	603.5	598.5	568.8	652.2	1140.9	3365.8	7151.0	7781.8	8064.9	7585.3	5055.8
65°	522.6	512.7	458.2	454.9	554.0	1396.0	5241.5	6117.4	6665.6	6998.3	4728.0
67.5°	470.6	455.7	400.4	373.2	397.9	613.4	2953.9	4103.1	4922.0	5918.5	4009.8
70°	420.2	412.8	357.5	317.8	315.4	374.0	1088.1	2117.6	3011.7	4037.8	2931.6
72.5°	376.5	363.2	316.2	278.2	259.2	265.0	472.2	815.7	1558.7	2518.8	1753.5
75°	326.1	316.2	274.9	236.9	213.8	194.0	288.1	377.3	710.8	1197.1	828.0
77.5°	251.8	245.2	217.1	188.2	175.0	144.5	175.0	237.8	328.6	504.4	430.9
80°	146.1	150.3	161.8	147.0	128.8	103.2	113.9	137.0	197.3	273.3	244.4
82.5°	73.5	78.4	104.8	85.0	76.8	60.3	67.7	80.9	103.2	151.1	95.8
85°	5.8	5.8	19.0	21.5	26.4	21.5	27.2	33.0	47.1	60.3	32.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	2.5	4.1	7.4	14.0	9.1
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°	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7	2878.7
2.5°	2883.7	2841.6	2791.2	2750.0	2686.4	2652.5	2609.6	2556.8	2535.3	2525.4	2519.6
5°	2889.5	2815.2	2707.9	2608.8	2499.0	2412.3	2315.7	2215.0	2157.2	2143.2	2133.3
7.5°	2910.9	2806.9	2636.0	2472.6	2268.7	2079.6	1895.5	1713.0	1619.8	1584.3	1581.0
10°	2940.7	2803.6	2563.4	2291.8	1947.5	1648.7	1433.2	1290.4	1230.1	1210.3	1203.7
12.5°	2977.8	2801.1	2467.6	2040.8	1576.8	1294.5	1171.5	1148.4	1156.6	1155.0	1155.0
15°	3024.9	2804.4	2352.0	1756.8	1275.5	1123.6	1126.1	1153.3	1178.9	1183.0	1183.0
17.5°	3076.1	2801.1	2184.4	1472.0	1094.7	1083.1	1121.1	1159.1	1182.2	1185.5	1185.5
20°	3131.4	2785.5	1973.1	1203.7	1015.4	1057.5	1098.8	1128.5	1142.6	1145.9	1145.9
22.5°	3164.4	2740.9	1743.6	1018.7	965.1	1017.1	1044.3	1074.9	1076.5	1050.1	1049.3
25°	3159.4	2657.5	1481.9	899.9	911.4	956.8	991.5	970.0	943.6	928.8	926.3
27.5°	3128.1	2532.0	1215.2	809.9	847.9	899.0	888.3	870.1	863.5	847.0	845.4
30°	3088.4	2377.6	975.8	739.7	781.8	828.9	812.4	810.7	804.1	785.9	785.9
32.5°	3050.5	2218.3	795.0	687.7	739.7	743.0	766.1	767.8	764.5	733.1	729.8
35°	3039.7	2059.0	672.8	646.4	698.4	696.8	729.8	729.0	672.0	628.3	627.4
37.5°	3071.9	1897.1	600.2	612.6	641.5	662.9	689.3	641.5	622.5	596.1	594.4
40°	3140.4	1747.7	563.0	592.8	605.1	636.5	595.2	598.5	593.6	573.8	571.3
42.5°	3231.3	1620.6	542.4	586.2	584.5	592.8	547.3	560.6	568.0	553.1	550.7
45°	3318.8	1510.0	531.7	561.4	569.6	521.8	512.7	525.1	536.6	530.8	528.4
47.5°	3383.2	1414.2	525.9	527.5	550.7	497.8	483.0	488.7	502.8	505.2	504.4
50°	3403.0	1332.5	519.3	499.5	494.5	473.9	462.3	460.7	477.2	488.7	490.4
52.5°	3365.0	1259.8	501.9	474.7	450.8	454.1	449.9	441.7	458.2	473.9	475.5
55°	3308.9	1218.5	474.7	450.8	422.7	435.9	437.5	430.1	440.9	451.6	451.6
57.5°	3313.0	1242.5	448.3	428.5	397.9	415.3	424.3	421.0	421.0	429.3	430.1
60°	3340.2	1277.1	430.9	400.4	373.2	391.3	412.0	408.7	401.2	412.0	412.0
62.5°	3261.8	1230.9	419.4	373.2	346.7	368.2	393.0	391.3	383.1	400.4	402.0
65°	3030.6	1107.1	406.2	339.3	320.3	345.1	366.6	372.3	364.9	388.0	392.1
67.5°	2540.3	931.2	380.6	307.1	293.9	317.0	337.7	345.9	340.1	367.4	370.7
70°	1893.8	753.7	340.1	271.6	261.7	282.3	301.3	304.6	305.5	337.7	341.0
72.5°	1207.8	586.2	286.5	232.0	224.6	240.2	254.3	267.5	273.3	303.8	303.0
75°	673.7	435.9	230.3	196.5	183.3	195.7	212.2	227.9	244.4	288.9	293.9
77.5°	388.0	306.3	182.4	157.7	142.0	155.2	169.2	191.5	241.1	279.9	274.9
80°	218.8	199.0	137.9	115.6	105.7	115.6	126.3	168.4	189.9	206.4	208.9
82.5°	102.4	111.5	94.1	71.0	71.0	77.6	87.5	130.4	143.6	117.2	102.4
85°	37.2	50.4	46.2	36.3	32.2	31.4	54.5	74.3	46.2	41.3	35.5
87.5°	9.9	14.0	13.2	9.1	5.0	4.1	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)