

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: P632580

Luminaire Tested: GWS-SA2D-722-U-AFL-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632580
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-722-U-AFL-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8758.1 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

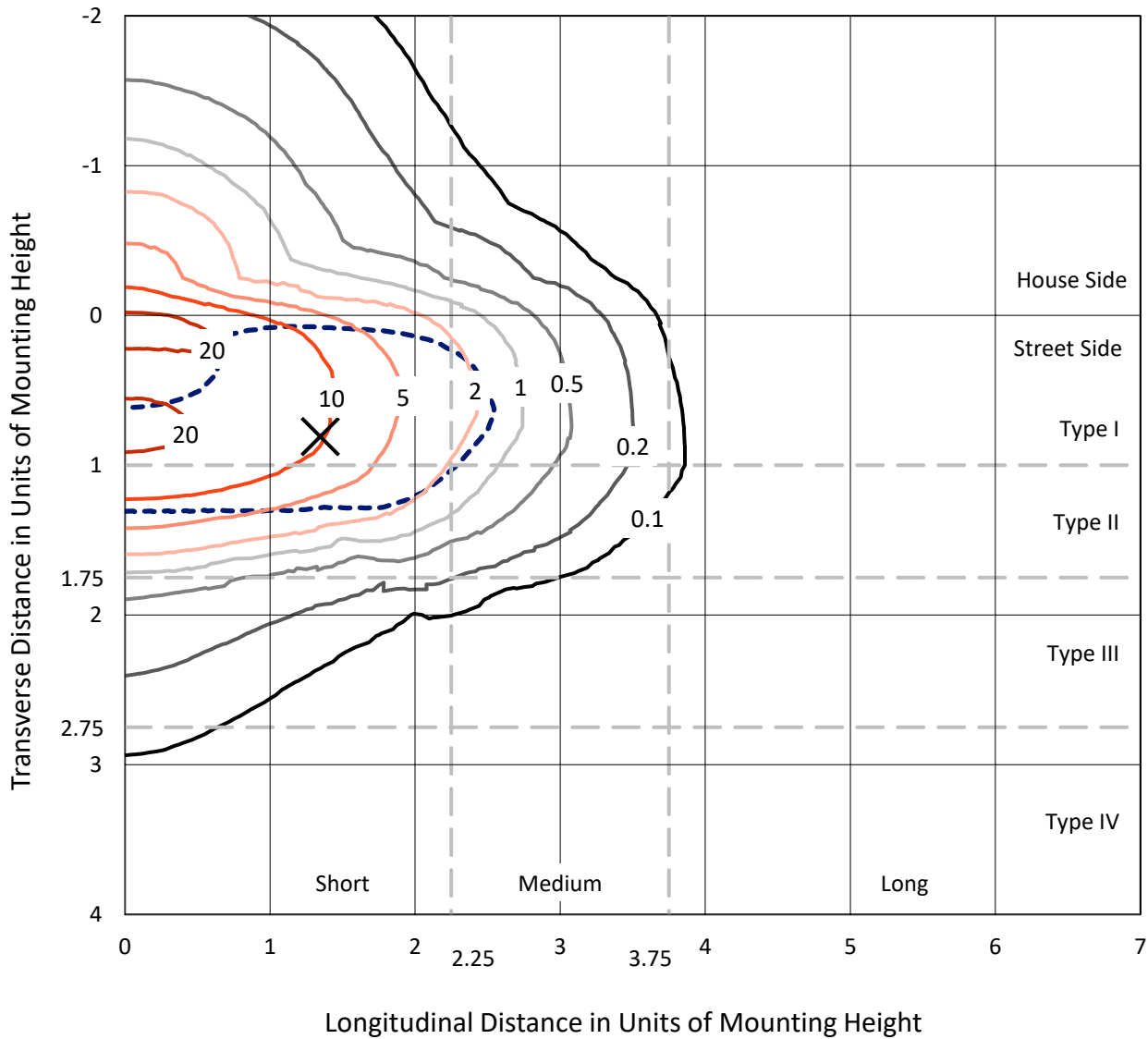
Input Watts (W): 82.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

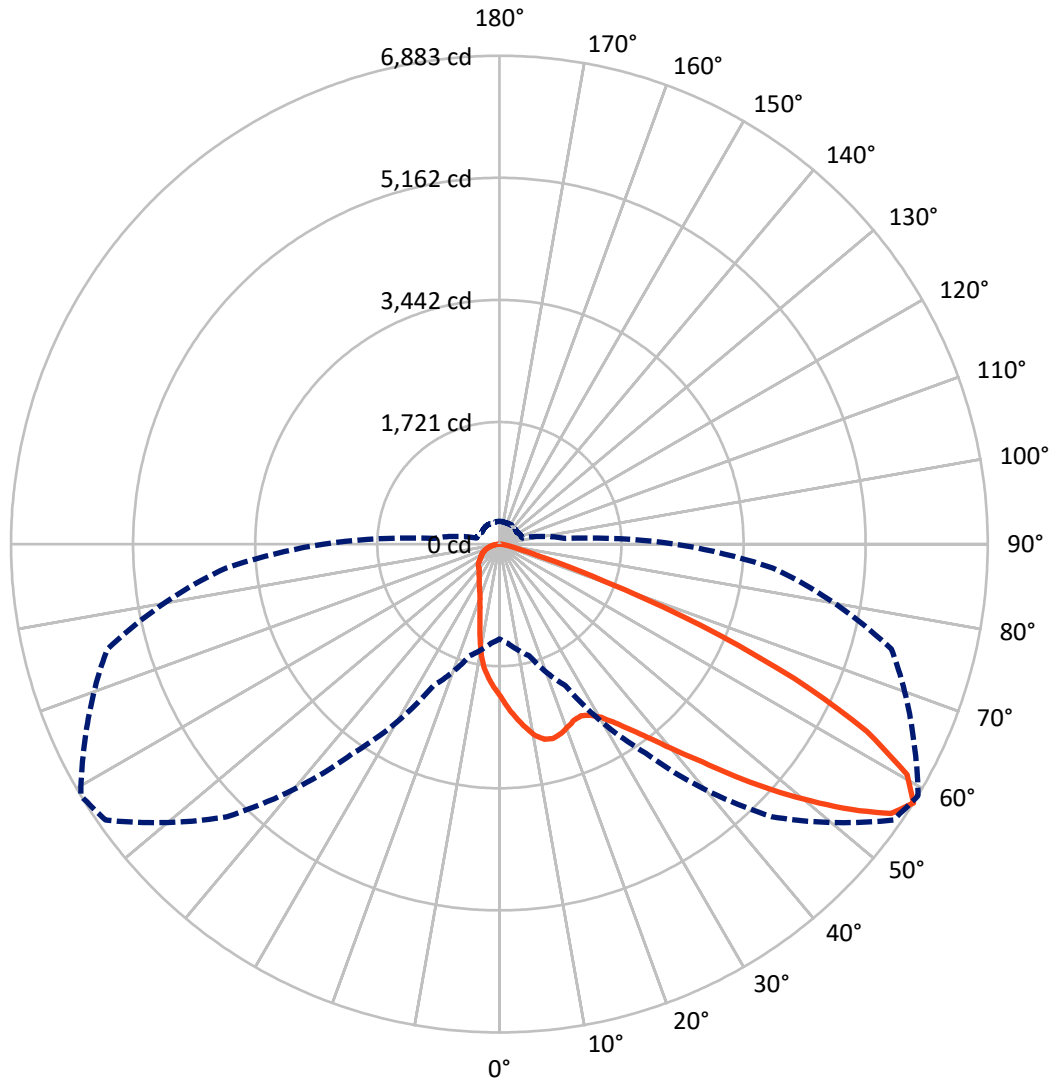
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.3 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
House Side	Lumens	1359.2	0.0	1359.2
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	7398.9	0.0	7398.9
	% Fixture	84.5	0.0	84.5
Total	Lumens	8758.1	0.0	8758.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	2.3
10°-20°	505.9	5.8
20°-30°	820.0	9.4
30°-40°	1319.1	15.1
40°-50°	2048.4	23.4
50°-60°	2206.4	25.2
60°-70°	1280.5	14.6
70°-80°	334.3	3.8
80°-90°	44.0	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°	8758.1	100.0
0°-180°	8758.1	100.0

Coefficient of Utilization



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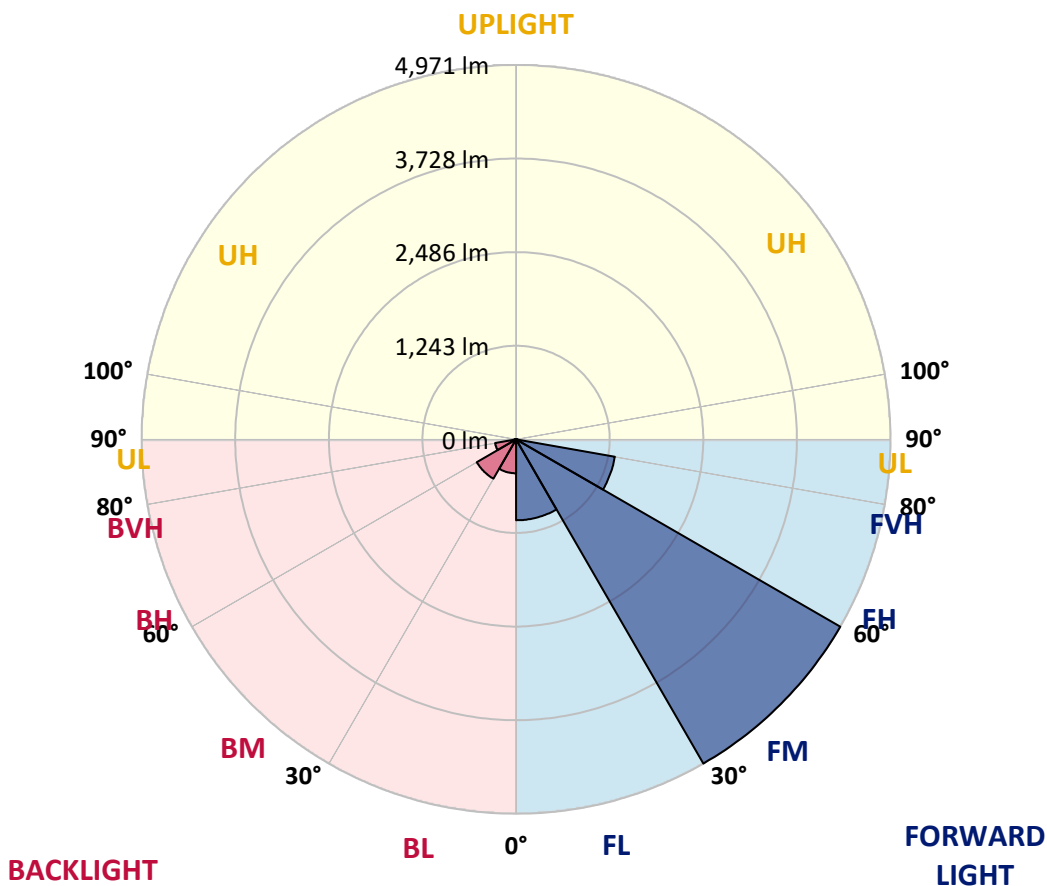
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1074.5	12.3			
FM (30°-60°)	4971.2	56.8			
FH (60°-80°)	1332.1	15.2			G1/1800
FVH (80°-90°)	21.1	0.2			G1/100
BL (0°-30°)	450.9	5.1	B1/500		
BM (30°-60°)	602.6	6.9	B1/1000		
BH (60°-80°)	282.7	3.2	B1/500		G1/500
BVH (80°-90°)	23.0	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°	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9
2.5°	2438.5	2418.1	2432.3	2407.0	2396.6	2368.8	2333.1	2309.0	2272.0	2223.9	2182.0
5°	2680.8	2666.6	2669.7	2642.6	2618.5	2572.3	2498.9	2458.2	2395.3	2298.5	2208.5
7.5°	2673.4	2690.0	2699.3	2722.7	2729.5	2725.2	2659.2	2602.5	2533.4	2387.9	2252.3
10°	2396.6	2428.0	2456.4	2536.5	2633.9	2757.2	2772.7	2738.8	2669.1	2502.0	2304.7
12.5°	2095.1	2119.1	2144.4	2240.6	2389.8	2636.4	2803.5	2824.5	2796.7	2614.8	2363.9
15°	1947.1	1958.2	1982.2	2045.7	2164.7	2438.5	2749.8	2841.7	2891.7	2734.4	2430.5
17.5°	1940.9	1945.9	1957.6	1991.5	2074.1	2285.6	2653.0	2807.2	2966.3	2860.8	2508.2
20°	2068.6	2055.6	2048.2	2047.6	2088.3	2234.4	2559.3	2751.7	3001.4	2990.3	2591.4
22.5°	2245.5	2249.8	2233.8	2194.3	2189.4	2270.8	2512.5	2695.6	3011.9	3105.0	2668.5
25°	2496.4	2518.0	2470.5	2395.3	2358.3	2376.2	2541.5	2678.3	3010.7	3200.6	2716.6
27.5°	2789.3	2806.0	2757.9	2659.2	2582.8	2539.6	2627.8	2729.5	3021.1	3283.2	2745.5
30°	3122.9	3128.4	3062.4	2958.9	2847.3	2754.8	2771.4	2834.9	3074.8	3391.7	2779.4
32.5°	3530.4	3553.8	3454.0	3290.0	3134.0	3015.6	2964.4	3005.1	3190.7	3519.9	2831.9
35°	4047.7	4055.7	3928.7	3693.8	3473.1	3309.1	3201.8	3223.4	3367.0	3699.3	2910.8
37.5°	4535.4	4543.4	4408.4	4190.1	3874.5	3650.0	3494.7	3484.8	3592.7	3952.8	3039.6
40°	4844.9	4867.7	4807.3	4670.4	4368.9	4066.2	3855.3	3821.4	3888.6	4262.9	3219.1
42.5°	5011.4	5021.2	5020.0	5037.9	4858.5	4557.6	4262.3	4194.4	4239.5	4597.7	3400.3
45°	5012.6	5037.3	5103.3	5275.3	5283.3	5095.9	4776.5	4670.4	4629.1	4934.9	3589.6
47.5°	4788.2	4814.7	4996.0	5334.5	5584.2	5626.7	5392.4	5179.7	5005.8	5225.3	3745.0
50°	4108.7	4175.3	4520.6	5119.3	5643.4	6052.1	5980.0	5691.4	5340.6	5449.8	3842.4
52.5°	3518.7	3516.2	3728.9	4511.4	5396.1	6239.6	6548.5	6218.0	5671.7	5592.2	3867.1
55°	2576.6	2590.8	2808.4	3450.3	4736.4	6058.3	6861.1	6702.6	6051.5	5668.0	3857.2
57.5°	1336.1	1406.4	1629.6	2201.7	3598.9	5434.3	6777.8	6883.3	6437.5	5721.7	3870.1
60°	675.1	661.6	741.7	1051.2	2085.2	4244.4	6264.8	6600.9	6507.2	5763.6	3878.2
62.5°	450.7	447.0	424.8	487.1	852.1	2513.7	5340.6	5811.7	6023.2	5664.9	3775.8
65°	390.3	382.9	342.2	339.7	413.7	1042.6	3914.5	4568.7	4978.1	5226.6	3531.0
67.5°	351.4	340.3	299.0	278.7	297.2	458.1	2206.0	3064.3	3675.9	4420.1	2994.6
70°	313.8	308.3	267.0	237.4	235.5	279.3	812.6	1581.5	2249.2	3015.6	2189.4
72.5°	281.2	271.3	236.1	207.8	193.6	197.9	352.7	609.2	1164.1	1881.1	1309.6
75°	243.5	236.1	205.3	177.0	159.7	144.9	215.2	281.8	530.9	894.0	618.4
77.5°	188.1	183.1	162.2	140.6	130.7	107.9	130.7	177.6	245.4	376.7	321.8
80°	109.1	112.2	120.8	109.7	96.2	77.1	85.1	102.3	147.4	204.1	182.5
82.5°	54.9	58.6	78.3	63.5	57.3	45.0	50.6	60.4	77.1	112.8	71.5
85°	4.3	4.3	14.2	16.0	19.7	16.0	20.3	24.7	35.1	45.0	24.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.1	5.5	10.5	6.8
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°	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9	2149.9
2.5°	2153.6	2122.2	2084.6	2053.8	2006.3	1981.0	1948.9	1909.5	1893.5	1886.1	1881.7
5°	2158.0	2102.5	2022.3	1948.3	1866.3	1801.6	1729.4	1654.2	1611.1	1600.6	1593.2
7.5°	2174.0	2096.3	1968.7	1846.6	1694.3	1553.1	1415.6	1279.4	1209.7	1183.2	1180.7
10°	2196.2	2093.8	1914.4	1711.6	1454.5	1231.3	1070.3	963.7	918.7	903.9	898.9
12.5°	2223.9	2092.0	1842.9	1524.1	1177.6	966.8	874.9	857.6	863.8	862.6	862.6
15°	2259.1	2094.4	1756.6	1312.0	952.6	839.1	841.0	861.3	880.4	883.5	883.5
17.5°	2297.3	2092.0	1631.4	1099.3	817.6	808.9	837.3	865.6	882.9	885.4	885.4
20°	2338.6	2080.3	1473.6	898.9	758.4	789.8	820.6	842.8	853.3	855.8	855.8
22.5°	2363.3	2047.0	1302.2	760.8	720.8	759.6	779.9	802.8	804.0	784.3	783.6
25°	2359.6	1984.7	1106.7	672.0	680.7	714.6	740.5	724.5	704.7	693.6	691.8
27.5°	2336.1	1891.0	907.6	604.8	633.2	671.4	663.4	649.9	644.9	632.6	631.4
30°	2306.5	1775.7	728.8	552.4	583.9	619.0	606.7	605.5	600.5	587.0	587.0
32.5°	2278.2	1656.7	593.7	513.6	552.4	554.9	572.2	573.4	570.9	547.5	545.0
35°	2270.2	1537.7	502.5	482.8	521.6	520.4	545.0	544.4	501.9	469.2	468.6
37.5°	2294.2	1416.9	448.2	457.5	479.1	495.1	514.8	479.1	464.9	445.2	443.9
40°	2345.4	1305.3	420.5	442.7	451.9	475.4	444.5	447.0	443.3	428.5	426.7
42.5°	2413.2	1210.3	405.1	437.8	436.5	442.7	408.8	418.6	424.2	413.1	411.2
45°	2478.6	1127.7	397.1	419.3	425.4	389.7	382.9	392.1	400.8	396.4	394.6
47.5°	2526.7	1056.2	392.7	394.0	411.2	371.8	360.7	365.0	375.5	377.3	376.7
50°	2541.5	995.1	387.8	373.0	369.3	353.9	345.3	344.0	356.4	365.0	366.2
52.5°	2513.1	940.9	374.9	354.5	336.6	339.1	336.0	329.9	342.2	353.9	355.1
55°	2471.2	910.0	354.5	336.6	315.7	325.5	326.8	321.2	329.2	337.3	337.3
57.5°	2474.2	927.9	334.8	320.0	297.2	310.1	316.9	314.4	314.4	320.6	321.2
60°	2494.6	953.8	321.8	299.0	278.7	292.2	307.7	305.2	299.6	307.7	307.7
62.5°	2436.0	919.3	313.2	278.7	259.0	275.0	293.5	292.2	286.1	299.0	300.3
65°	2263.4	826.8	303.3	253.4	239.2	257.7	273.8	278.1	272.5	289.8	292.9
67.5°	1897.1	695.5	284.2	229.4	219.5	236.8	252.2	258.3	254.0	274.4	276.8
70°	1414.4	562.9	254.0	202.8	195.4	210.9	225.0	227.5	228.1	252.2	254.6
72.5°	902.0	437.8	213.9	173.3	167.7	179.4	189.9	199.8	204.1	226.9	226.3
75°	503.1	325.5	172.0	146.7	136.9	146.1	158.5	170.2	182.5	215.8	219.5
77.5°	289.8	228.7	136.3	117.8	106.0	115.9	126.4	143.0	180.0	209.0	205.3
80°	163.4	148.6	103.0	86.3	78.9	86.3	94.3	125.8	141.8	154.1	156.0
82.5°	76.5	83.2	70.3	53.0	53.0	58.0	65.4	97.4	107.3	87.6	76.5
85°	27.7	37.6	34.5	27.1	24.0	23.4	40.7	55.5	34.5	30.8	26.5
87.5°	7.4	10.5	9.9	6.8	3.7	3.1	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)