

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: P632940

Luminaire Tested: GWS-SA2D-760-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2D-760-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12011.8 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

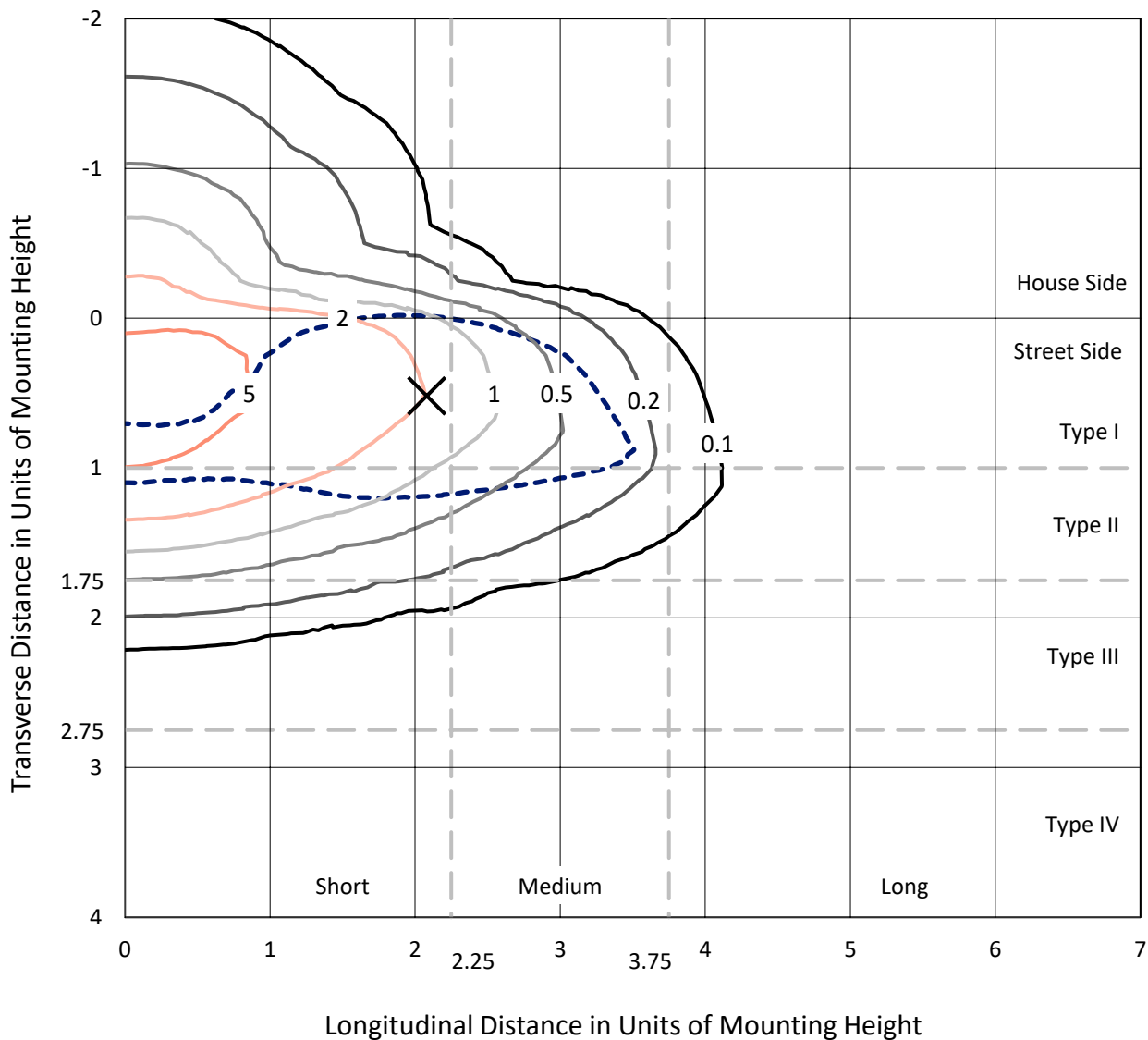


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Iso-Footcandle Lines of Horizontal Illumination

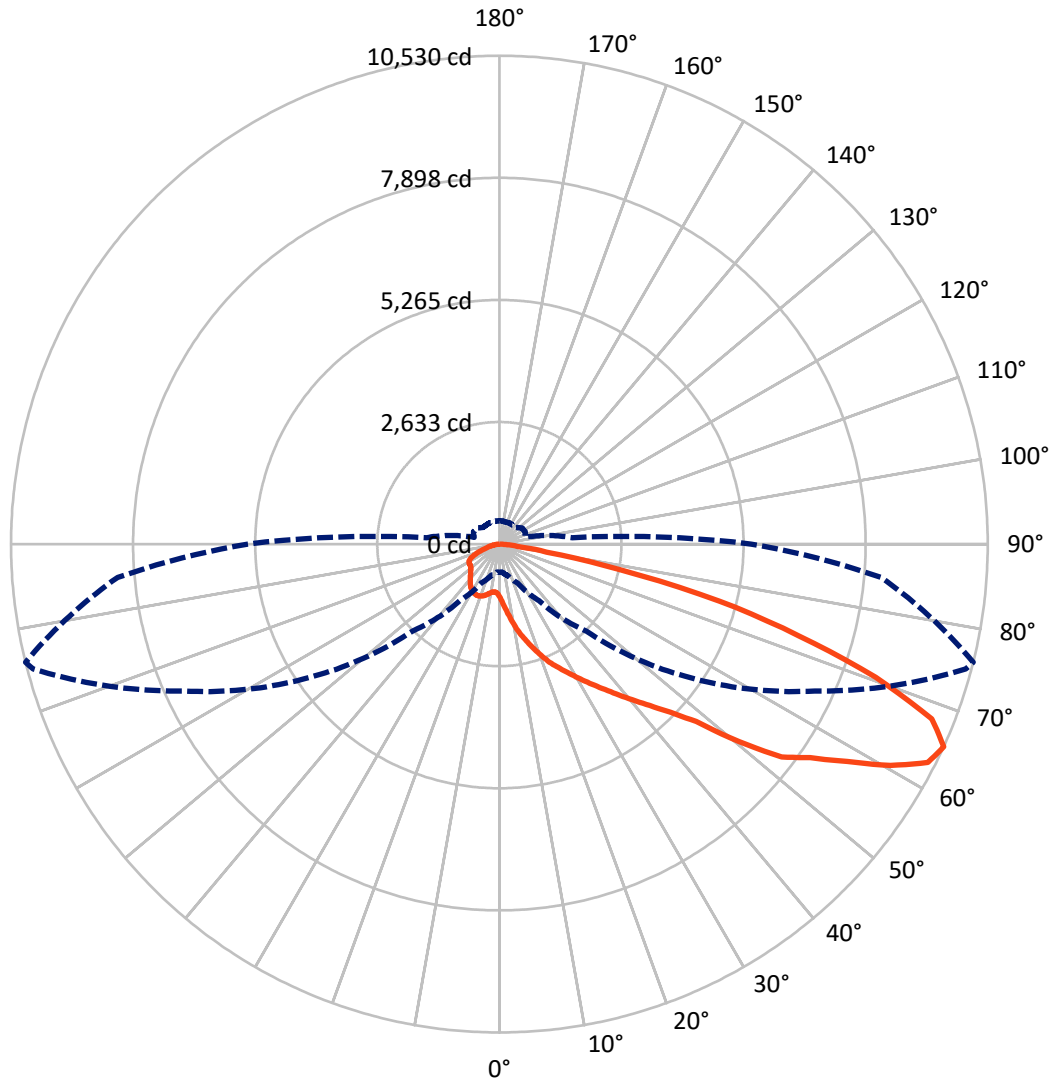
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2007.8	0.0	2007.8
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	10004.0	0.0	10004.0
	% Fixture	83.3	0.0	83.3
Total	Lumens	12011.8	0.0	12011.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.1	1.1
10°-20°	514.7	4.3
20°-30°	1003.1	8.4
30°-40°	1677.7	14.0
40°-50°	2402.1	20.0
50°-60°	2843.8	23.7
60°-70°	2364.6	19.7
70°-80°	967.6	8.1
80°-90°	103.0	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°	12011.8	100.0
0°-180°	12011.8	100.0

Coefficient of Utilization



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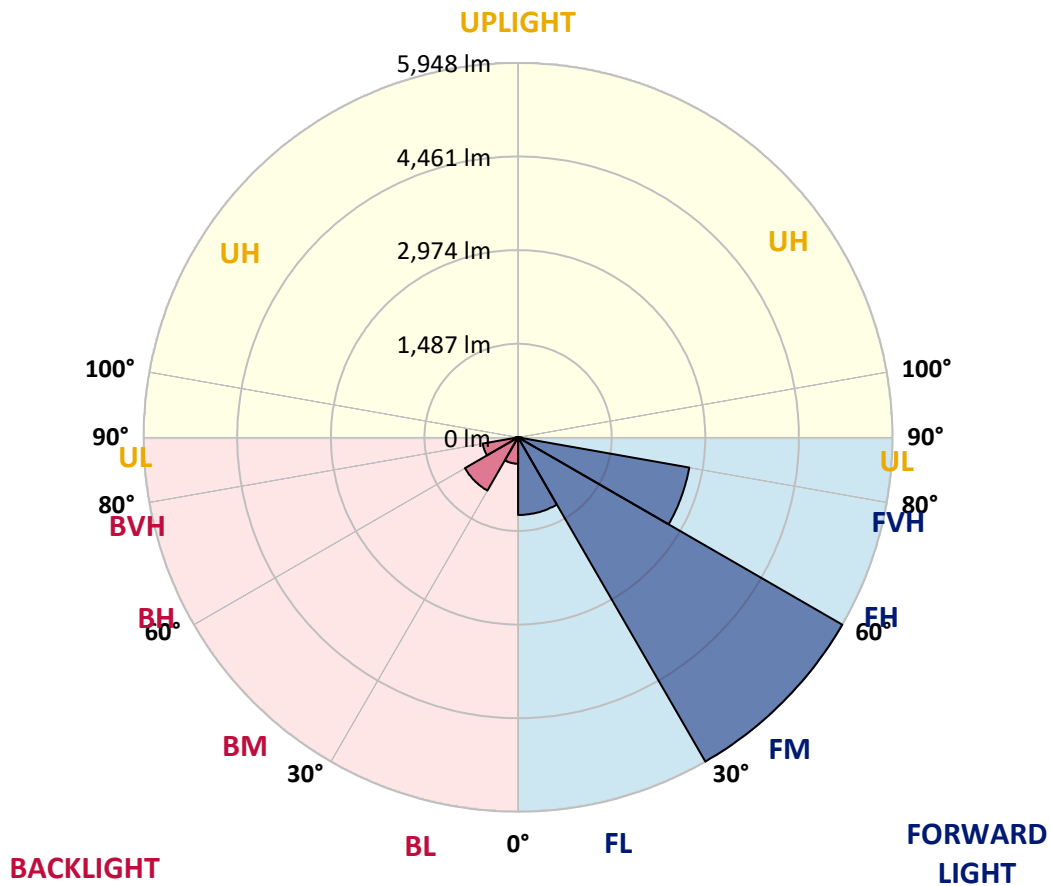
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1233.0	10.3			
FM (30°-60°)	5947.8	49.5			
FH (60°-80°)	2761.8	23.0			G2/5000
FVH (80°-90°)	61.4	0.5			G1/100
BL (0°-30°)	420.0	3.5	B1/500		
BM (30°-60°)	975.7	8.1	B1/1000		
BH (60°-80°)	570.4	4.7	B2/1000		G2/1000
BVH (80°-90°)	41.6	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1594.3	1600.2	1580.8	1574.1	1528.5	1466.8	1415.3	1337.6	1265.8	1254.9	1190.7
5°	2025.0	1999.7	1977.7	1963.3	1900.0	1829.9	1721.0	1574.9	1422.1	1403.5	1265.0
7.5°	2280.9	2276.6	2249.6	2241.2	2192.2	2122.1	2009.8	1828.2	1606.1	1575.7	1365.5
10°	2486.1	2483.5	2470.0	2477.6	2432.9	2364.5	2255.5	2068.1	1808.0	1777.6	1477.8
12.5°	2665.1	2669.3	2666.8	2694.6	2671.8	2618.6	2505.5	2299.4	2009.8	1976.9	1614.6
15°	2796.0	2799.3	2812.0	2872.8	2885.5	2874.5	2759.7	2526.6	2209.1	2161.8	1755.6
17.5°	2833.1	2839.9	2870.3	2968.2	3036.6	3082.2	2997.0	2758.0	2405.0	2353.5	1899.2
20°	2882.9	2890.5	2920.9	3023.1	3123.6	3227.5	3212.3	2992.7	2602.6	2560.4	2044.4
22.5°	3113.5	3107.6	3094.1	3143.0	3214.8	3344.0	3382.0	3218.2	2806.9	2766.4	2204.9
25°	3557.7	3546.7	3460.6	3415.8	3392.2	3470.7	3538.2	3423.4	3006.2	2945.4	2354.3
27.5°	4047.4	4041.5	3931.8	3825.4	3680.1	3646.3	3686.0	3602.4	3199.6	3138.0	2484.4
30°	4511.0	4493.3	4378.5	4245.0	4050.8	3905.6	3847.3	3778.1	3411.6	3347.4	2636.4
32.5°	4925.7	4902.9	4767.8	4620.0	4416.5	4245.0	4071.1	3964.7	3651.4	3577.1	2791.7
35°	5266.0	5243.2	5104.7	4947.6	4723.8	4597.2	4359.0	4167.4	3895.4	3820.3	2975.0
37.5°	5529.5	5508.3	5363.9	5209.4	5014.3	4913.8	4707.0	4395.4	4176.6	4098.1	3169.2
40°	5677.2	5662.0	5546.3	5423.9	5260.1	5173.1	5080.2	4683.3	4491.6	4413.1	3398.1
42.5°	5722.0	5711.9	5630.8	5567.5	5456.8	5391.0	5444.2	5021.9	4827.7	4759.3	3655.6
45°	5609.7	5609.7	5586.0	5618.1	5623.2	5622.3	5809.0	5404.5	5240.7	5165.5	4018.7
47.5°	5322.6	5341.1	5375.8	5533.7	5700.0	5839.4	6235.4	5914.5	5771.8	5710.2	4533.0
50°	4797.3	4848.0	4966.2	5274.4	5628.3	5982.9	6639.1	6668.6	6804.6	6695.6	5289.6
52.5°	4028.0	4020.4	4321.9	4761.0	5300.6	5988.8	6861.1	7334.0	7699.7	7624.5	5852.0
55°	3201.3	3188.6	3469.8	4075.3	4798.2	5762.5	6994.6	7638.9	8196.2	8128.7	6357.9
57.5°	2451.4	2435.4	2685.3	3231.7	4088.8	5282.0	6969.2	8002.0	8879.4	8844.8	7045.2
60°	1687.2	1667.8	1901.7	2379.7	3249.4	4547.4	6688.9	8188.6	9679.1	9690.9	7780.8
62.5°	1013.3	1002.4	1172.1	1542.8	2337.4	3637.0	6032.7	8075.5	10315.8	10369.0	8253.6
65°	611.4	603.8	703.4	920.4	1482.9	2654.1	5021.1	7497.0	10407.8	10530.3	8264.6
67.5°	445.0	445.9	474.6	560.7	864.7	1714.2	3767.9	6460.0	9928.2	10054.9	7743.6
70°	386.8	388.4	403.6	423.1	522.7	981.2	2449.7	5099.6	8510.4	8608.3	6494.7
72.5°	343.7	343.7	353.8	364.0	408.7	597.9	1312.3	3564.4	6716.7	6742.9	4956.9
75°	302.3	299.8	304.8	309.9	354.7	418.0	638.4	2483.5	4961.1	4900.3	3203.8
77.5°	240.7	238.1	239.0	244.0	284.6	298.9	323.4	1551.3	2796.0	2638.9	1415.3
80°	171.4	169.7	179.0	191.7	210.3	183.2	202.7	750.7	1108.8	1031.9	548.9
82.5°	102.2	105.6	119.9	130.0	145.2	114.8	130.9	250.8	392.7	382.5	222.9
85°	14.4	15.2	43.1	49.8	62.5	44.8	69.2	113.2	157.1	168.0	78.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.9	20.3	44.8	45.6	19.4
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°	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5	1137.5
2.5°	1157.7	1118.1	1061.5	1014.2	974.5	942.4	915.4	895.1	889.2	880.8	880.8
5°	1200.0	1128.2	1026.9	955.1	913.7	889.2	872.3	863.9	859.6	854.6	852.0
7.5°	1258.2	1157.7	1020.9	948.3	916.2	901.0	890.0	885.0	881.6	876.5	876.5
10°	1338.5	1201.7	1039.5	972.0	946.6	931.4	918.8	910.3	902.7	895.1	893.4
12.5°	1425.4	1259.1	1073.3	1004.1	977.0	958.4	940.7	928.0	918.8	909.5	906.9
15°	1521.7	1318.2	1109.6	1035.3	1001.5	976.2	955.1	935.6	923.0	909.5	907.8
17.5°	1616.3	1378.1	1140.0	1056.4	1013.3	982.1	951.7	926.4	910.3	895.1	890.9
20°	1729.4	1438.1	1161.1	1062.3	1010.8	969.4	933.1	901.0	883.3	865.6	863.0
22.5°	1833.3	1493.8	1171.3	1053.9	991.4	942.4	900.2	865.6	846.1	828.4	825.0
25°	1933.8	1542.8	1167.0	1033.6	961.8	905.2	861.3	826.7	808.1	789.6	784.5
27.5°	2030.9	1575.7	1150.1	1002.4	924.7	863.9	821.6	790.4	774.4	758.3	751.6
30°	2126.3	1606.1	1124.0	961.8	877.4	820.8	786.2	764.2	748.2	731.3	726.2
32.5°	2222.6	1628.1	1084.3	914.5	829.2	782.8	761.7	745.6	728.8	711.9	706.8
35°	2319.7	1637.4	1036.1	860.5	788.7	758.3	750.7	732.1	709.3	689.1	682.3
37.5°	2435.4	1645.8	976.2	807.3	753.2	746.5	744.8	716.9	689.9	662.0	654.4
40°	2574.7	1656.8	914.5	759.2	724.5	742.3	735.5	697.5	643.5	616.4	608.0
42.5°	2745.3	1677.1	850.4	715.2	703.4	726.2	718.6	650.2	613.9	598.7	594.5
45°	2996.1	1751.4	786.2	680.6	687.4	703.4	691.6	622.4	608.0	597.9	592.8
47.5°	3442.8	1865.4	730.4	654.4	674.7	683.2	637.6	614.8	603.8	590.3	584.4
50°	3907.3	1915.2	685.7	638.4	660.4	664.6	608.0	604.6	597.0	582.7	576.8
52.5°	4221.4	1908.5	658.7	632.5	648.5	632.5	594.5	593.6	588.6	571.7	564.9
55°	4576.1	1920.3	646.8	634.2	643.5	578.4	577.6	580.1	577.6	559.0	555.6
57.5°	5054.9	1956.6	640.9	640.1	640.1	552.3	561.6	564.9	559.9	551.4	548.9
60°	5515.1	1959.1	630.0	646.8	637.6	536.2	543.0	546.4	540.4	538.8	537.9
62.5°	5688.2	1837.5	605.5	641.8	627.4	518.5	523.6	525.2	519.3	523.6	522.7
65°	5430.7	1579.1	564.9	617.3	596.2	502.4	499.1	503.3	493.2	504.1	505.0
67.5°	4821.8	1254.9	503.3	570.8	552.3	484.7	478.0	478.0	461.1	478.0	477.1
70°	3887.8	886.7	412.9	496.5	504.1	463.6	460.2	440.8	413.8	439.1	436.6
72.5°	2947.1	636.7	325.1	392.7	434.0	434.0	434.9	402.0	370.7	382.5	372.4
75°	1867.1	448.4	260.1	300.6	340.3	380.8	400.3	339.5	311.6	306.5	301.5
77.5°	841.1	294.7	202.7	230.5	241.5	300.6	365.6	292.2	254.2	243.2	239.8
80°	352.1	183.2	144.4	163.0	148.6	252.5	322.6	227.2	186.6	171.4	160.4
82.5°	154.5	108.9	92.0	87.8	92.9	187.5	240.7	151.2	116.5	157.9	159.6
85°	65.0	57.4	47.3	43.1	38.0	71.8	113.2	59.1	72.6	41.4	33.8
87.5°	15.2	16.9	12.7	8.4	5.1	0.8	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)