

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: P631302

Luminaire Tested: GWS-SA1F-735-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1F-735-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8238.3 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

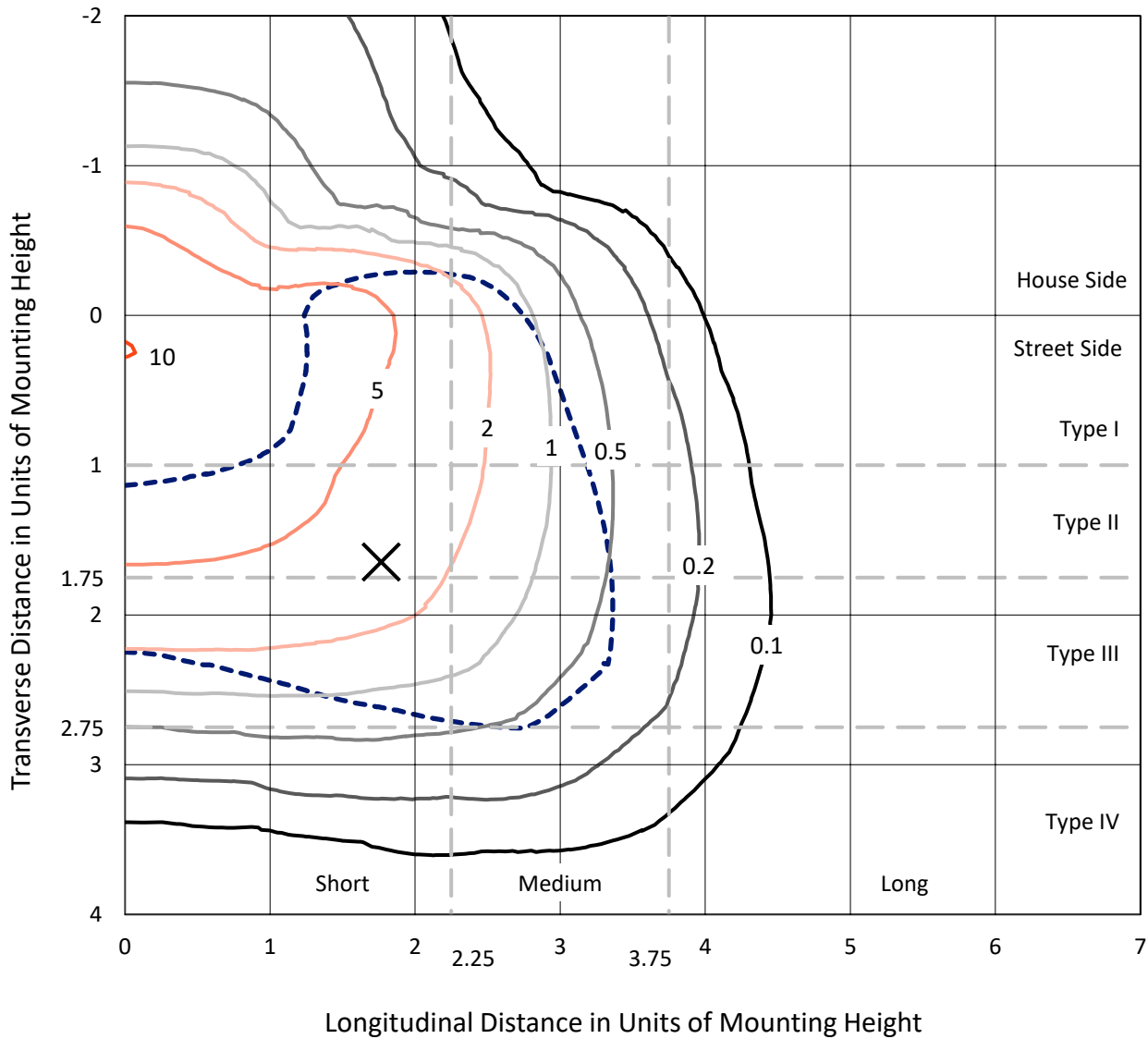
Input Watts (W): 67.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

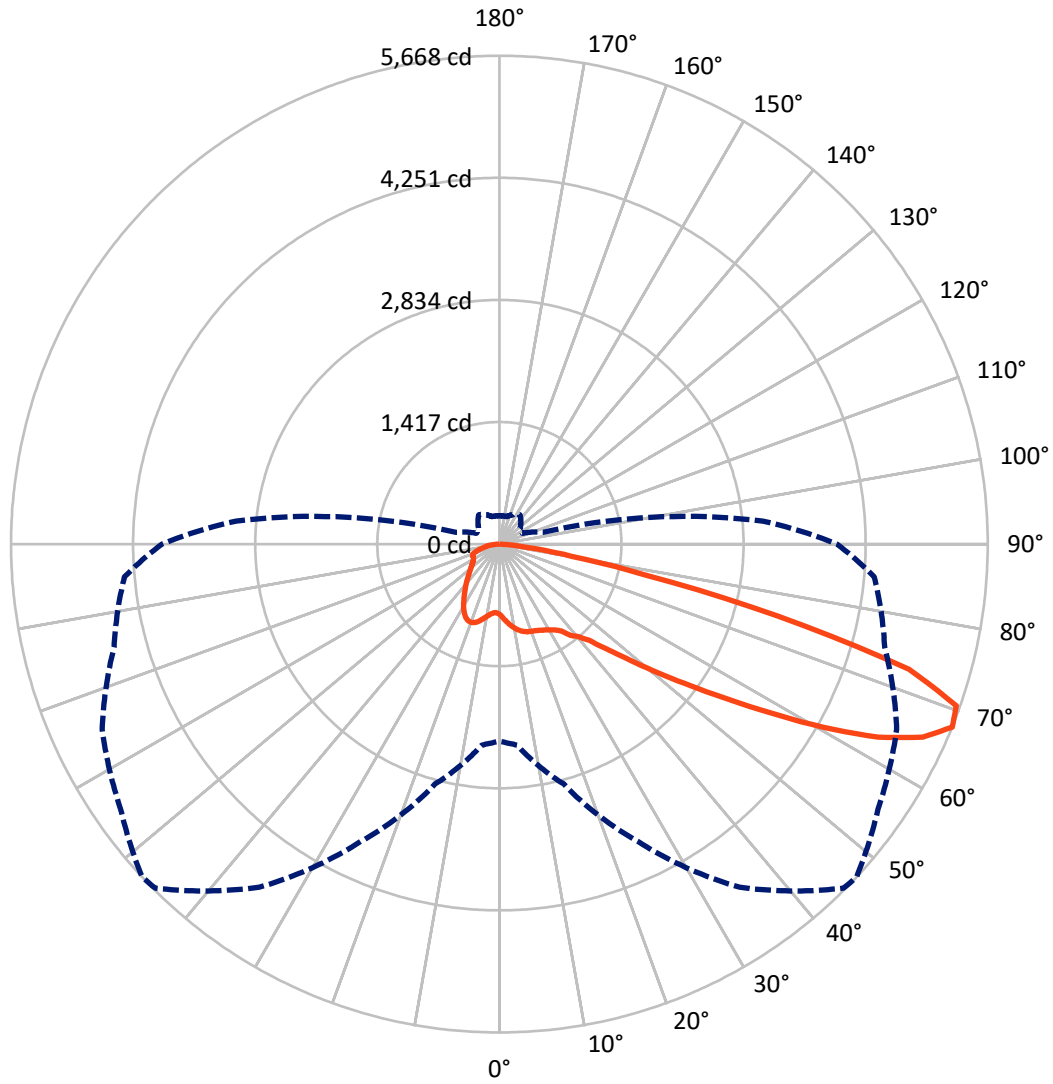
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1877.6	0.0	1877.6
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	6360.7	0.0	6360.7
	% Fixture	77.2	0.0	77.2
Total	Lumens	8238.3	0.0	8238.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.5	1.0
10°-20°	278.1	3.4
20°-30°	472.7	5.7
30°-40°	692.4	8.4
40°-50°	1054.9	12.8
50°-60°	1887.5	22.9
60°-70°	2518.7	30.6
70°-80°	1139.0	13.8
80°-90°	111.6	1.4
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°	8238.3	100.0
0°-180°	8238.3	100.0

Coefficient of Utilization



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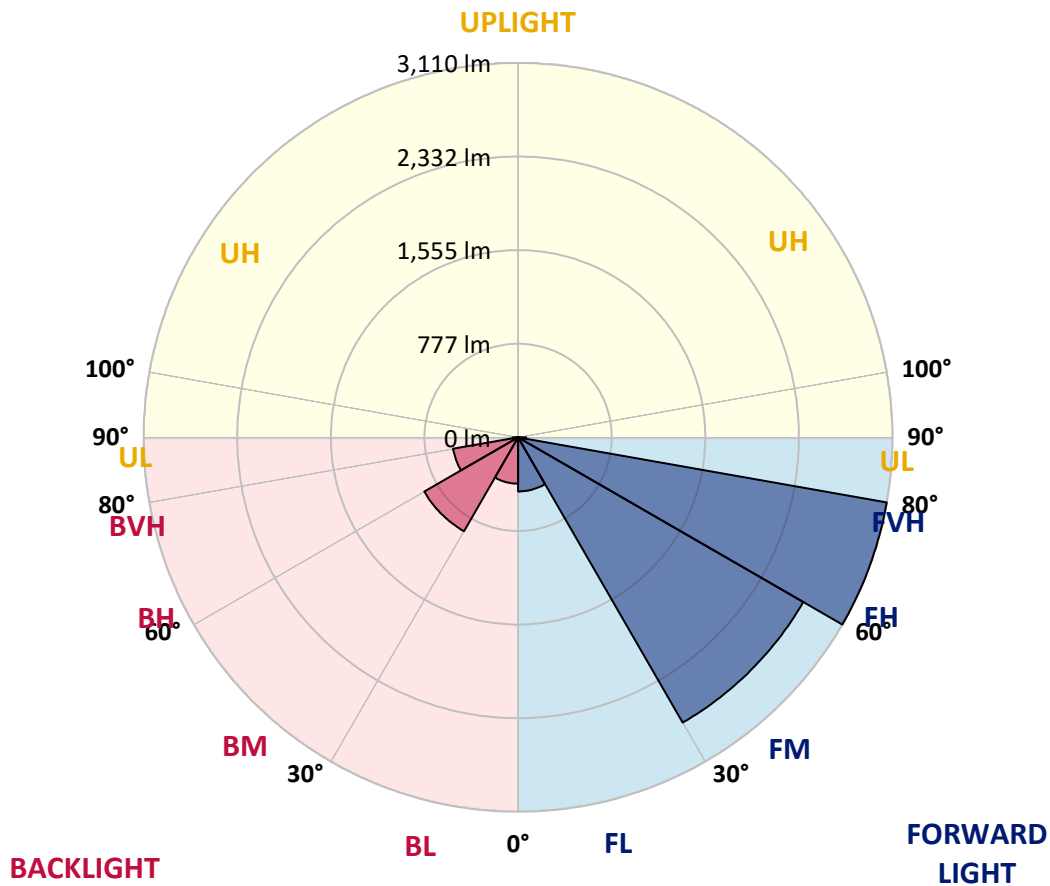
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	449.3	5.5			
FM (30°-60°)	2735.2	33.2			
FH (60°-80°)	3109.9	37.7			G2/5000
FVH (80°-90°)	66.4	0.8			G1/100
BL (0°-30°)	384.9	4.7	B1/500		
BM (30°-60°)	899.6	10.9	B1/1000		
BH (60°-80°)	547.8	6.6	B2/1000		G2/1000
BVH (80°-90°)	45.2	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7
2.5°	870.9	873.9	873.3	868.5	865.5	860.2	860.8	852.4	839.9	831.6	822.0
5°	947.7	952.5	946.5	938.8	926.9	909.6	907.8	888.8	864.9	848.2	831.0
7.5°	1014.4	1017.4	1010.3	997.2	979.9	956.7	952.5	929.9	900.1	873.9	848.8
10°	1066.3	1069.8	1060.3	1043.0	1020.4	997.2	994.2	971.0	939.4	908.4	876.8
12.5°	1110.3	1111.5	1101.4	1078.2	1053.8	1029.9	1027.0	1005.5	976.3	944.7	910.2
15°	1136.0	1136.6	1124.0	1098.4	1075.2	1054.4	1052.6	1034.1	1007.3	977.5	940.6
17.5°	1134.2	1135.4	1126.4	1103.8	1083.5	1071.0	1069.2	1057.3	1036.5	1009.7	972.7
20°	1112.1	1113.3	1107.4	1092.5	1081.8	1078.2	1078.8	1075.2	1062.7	1040.7	1003.1
22.5°	1094.9	1096.6	1091.3	1080.6	1079.4	1087.7	1089.5	1091.3	1085.3	1065.7	1029.3
25°	1103.2	1106.2	1097.8	1082.9	1085.3	1103.8	1107.4	1113.3	1108.6	1091.9	1060.3
27.5°	1161.0	1162.8	1141.3	1110.9	1103.8	1123.5	1128.8	1138.3	1134.8	1119.3	1094.9
30°	1295.0	1293.8	1247.9	1173.5	1143.7	1151.4	1155.6	1169.3	1170.5	1160.4	1137.2
32.5°	1483.8	1477.9	1407.0	1288.5	1202.1	1183.0	1187.8	1206.3	1220.0	1209.2	1177.7
35°	1683.4	1678.0	1600.0	1461.2	1309.9	1243.8	1238.4	1252.7	1273.6	1243.8	1198.5
37.5°	1873.4	1865.1	1785.3	1613.7	1442.7	1350.4	1342.7	1328.4	1315.9	1258.7	1224.1
40°	2084.3	2074.8	2005.1	1810.9	1589.3	1432.0	1412.4	1355.8	1344.4	1308.1	1290.8
42.5°	2309.4	2309.4	2251.7	2060.5	1766.2	1548.8	1523.2	1438.0	1449.9	1426.1	1405.8
45°	2534.6	2541.2	2495.3	2311.8	2002.7	1769.2	1728.1	1607.1	1635.7	1625.0	1614.9
47.5°	2726.4	2738.9	2730.0	2568.6	2292.2	2037.2	1974.7	1849.0	1910.3	1936.0	1964.6
50°	2933.1	2946.8	2937.9	2874.2	2631.1	2361.9	2305.9	2176.0	2281.5	2358.3	2451.8
52.5°	3239.9	3259.6	3185.1	3160.7	3042.7	2730.6	2680.6	2532.8	2724.0	2851.5	3060.0
55°	3499.0	3498.4	3472.2	3528.2	3484.7	3181.5	3126.1	2992.1	3236.3	3371.5	3676.5
57.5°	3619.3	3633.6	3723.6	3882.0	3969.0	3732.5	3679.5	3542.5	3786.1	3856.4	4185.8
60°	3681.3	3699.2	3873.1	4186.4	4420.5	4334.2	4313.3	4138.8	4275.8	4267.4	4615.3
62.5°	3594.3	3630.1	3909.4	4325.8	4742.8	4938.8	4932.2	4668.3	4692.2	4610.6	4881.6
65°	3195.2	3233.9	3672.4	4256.1	4926.9	5398.6	5400.4	5147.9	5012.0	4777.3	4836.9
67.5°	2285.0	2340.4	2882.5	3808.2	4861.9	5647.0	5667.9	5365.3	5087.1	4629.6	4367.5
70°	1245.6	1286.1	1710.8	2768.1	4277.0	5587.5	5626.2	5260.4	4755.9	4004.8	3362.0
72.5°	565.9	579.0	795.8	1519.0	2921.8	4809.5	4971.5	4694.5	3905.9	2958.1	2137.9
75°	259.1	265.1	346.7	726.7	1526.7	3218.5	3332.2	3496.6	2718.1	1868.1	1114.5
77.5°	162.6	164.4	197.2	332.4	761.3	1606.5	1726.3	2081.9	1591.7	924.5	465.8
80°	95.9	97.7	122.7	179.9	357.4	735.1	848.8	823.2	748.2	399.1	212.1
82.5°	48.3	50.0	70.9	102.5	194.8	292.5	344.3	346.1	278.8	216.2	119.7
85°	17.3	17.9	23.2	40.5	82.8	96.5	107.8	131.6	136.4	125.7	57.8
87.5°	0.0	0.0	0.6	1.2	2.4	9.5	10.1	19.1	39.9	44.7	23.2
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°	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7	816.7
2.5°	819.1	810.1	807.1	804.2	799.4	797.6	794.0	790.5	790.5	786.9	785.1
5°	823.2	811.3	803.6	800.0	797.0	798.8	798.8	800.0	804.2	801.8	803.0
7.5°	838.1	824.4	813.7	810.7	810.7	817.9	822.6	828.6	836.3	837.5	837.5
10°	864.3	848.2	836.9	835.1	838.1	848.2	855.4	862.5	872.1	872.7	873.9
12.5°	892.9	876.8	865.5	867.9	870.9	884.0	891.7	897.7	907.2	907.2	906.6
15°	922.7	904.8	895.3	900.1	909.0	923.9	925.1	925.7	930.5	929.3	928.7
17.5°	953.7	934.6	927.5	934.6	944.2	951.3	945.3	937.0	935.2	932.8	931.6
20°	984.1	964.4	961.4	966.8	969.8	963.8	945.3	929.9	922.7	919.1	917.9
22.5°	1010.3	993.6	991.8	991.8	976.9	956.1	928.7	907.8	898.3	893.5	892.3
25°	1041.2	1025.8	1022.8	1006.7	968.6	930.5	893.5	874.5	866.7	864.3	864.9
27.5°	1077.6	1066.9	1057.3	1011.5	944.7	885.2	843.5	835.1	832.2	835.1	836.9
30°	1122.3	1111.5	1090.1	1005.5	906.6	826.2	786.3	785.7	794.6	802.4	803.6
32.5°	1158.6	1153.8	1118.7	986.4	853.0	761.3	727.3	729.7	745.8	756.5	758.3
35°	1187.2	1194.9	1142.5	954.9	789.3	699.9	673.1	674.3	683.2	698.1	698.7
37.5°	1227.7	1253.9	1164.0	906.6	716.0	646.9	622.5	613.5	612.4	616.5	617.7
40°	1309.3	1348.6	1179.4	836.3	645.1	599.3	571.9	554.6	539.7	528.4	524.8
42.5°	1432.6	1477.9	1188.4	751.2	582.0	552.2	521.2	499.2	473.0	449.1	440.8
45°	1659.0	1673.9	1188.4	660.6	526.0	508.1	477.1	450.9	417.6	389.6	383.6
47.5°	2021.1	1973.5	1189.6	573.0	476.5	469.4	442.6	412.8	375.9	352.6	349.1
50°	2566.8	2399.4	1214.0	500.4	435.4	436.6	417.0	384.2	350.9	333.6	330.6
52.5°	3185.1	2924.2	1279.5	446.8	400.9	409.8	399.1	367.5	337.8	322.9	319.9
55°	3766.5	3406.7	1335.5	408.6	371.7	387.2	386.6	357.4	330.6	315.7	313.9
57.5°	4260.9	3737.3	1327.2	377.7	346.7	366.3	375.3	350.9	325.8	313.3	311.5
60°	4568.3	3912.4	1208.6	349.1	327.6	351.5	368.7	349.1	328.2	325.2	325.8
62.5°	4701.7	3880.3	981.1	327.6	315.1	344.3	375.9	361.6	350.3	357.4	361.6
65°	4494.4	3603.9	722.0	311.5	303.2	346.1	392.6	381.2	350.3	355.0	356.8
67.5°	3919.0	3067.7	521.8	295.5	288.3	351.5	416.4	378.3	330.0	330.0	326.4
70°	2824.1	2206.4	378.9	279.4	273.4	343.7	417.6	358.0	306.8	305.0	296.1
72.5°	1699.5	1301.6	295.5	261.5	250.8	305.0	391.4	334.2	284.1	269.2	258.5
75°	882.8	652.3	247.8	241.8	215.0	258.5	358.0	297.2	243.0	229.9	224.0
77.5°	378.3	305.0	212.7	215.6	178.7	217.4	288.9	257.3	215.6	199.0	193.6
80°	186.4	173.3	168.0	172.7	143.0	168.0	249.0	225.2	182.9	163.8	156.1
82.5°	106.6	101.3	120.9	122.7	101.9	140.6	210.3	190.6	151.3	130.5	117.9
85°	49.4	53.0	73.3	73.9	63.1	96.5	137.6	107.2	80.4	66.7	63.7
87.5°	19.7	23.2	32.2	31.6	18.5	17.9	11.9	6.6	5.4	4.8	4.2
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)