

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: P630805

Luminaire Tested: GWS-SA1E-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P630805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA1E-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (16) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7219 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

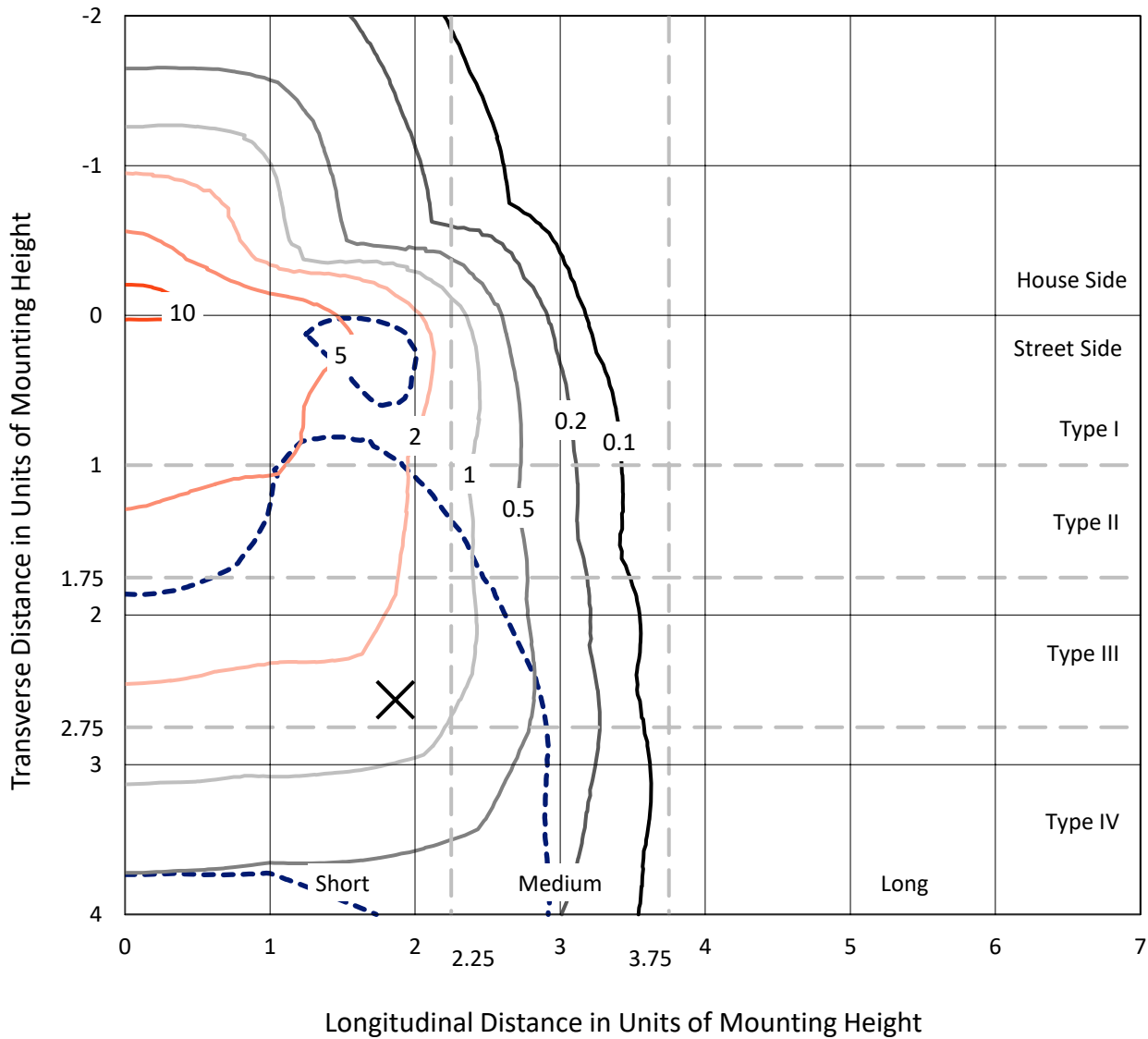
Input Watts (W): 58.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

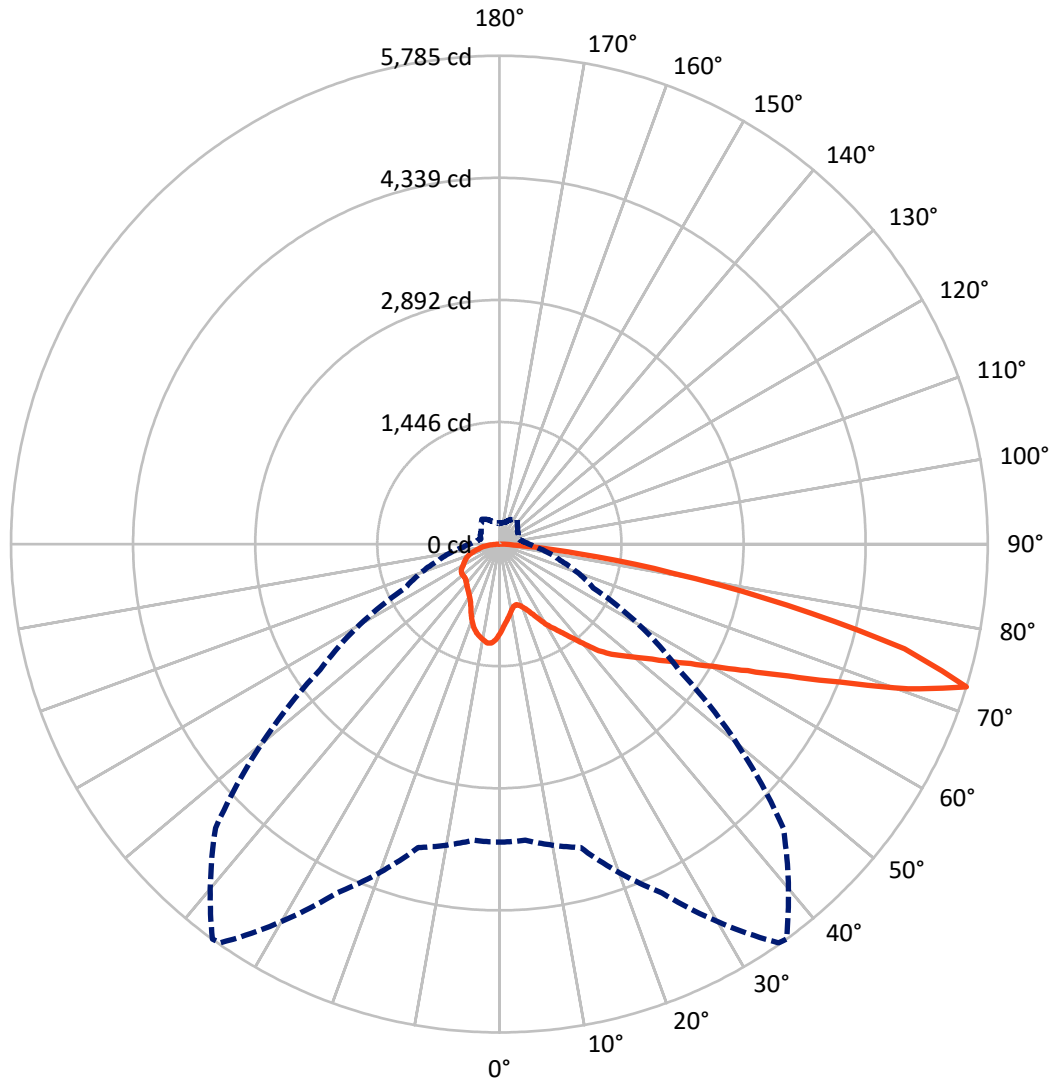
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1664.3	0.0	1664.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	5554.7	0.0	5554.7
	% Fixture	76.9	0.0	76.9
Total	Lumens	7219.0	0.0	7219.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.8	1.4
10°-20°	278.6	3.9
20°-30°	461.5	6.4
30°-40°	691.1	9.6
40°-50°	1008.2	14.0
50°-60°	1435.0	19.9
60°-70°	1813.0	25.1
70°-80°	1291.9	17.9
80°-90°	141.0	2.0
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°	7219.0	100.0
0°-180°	7219.0	100.0

Coefficient of Utilization



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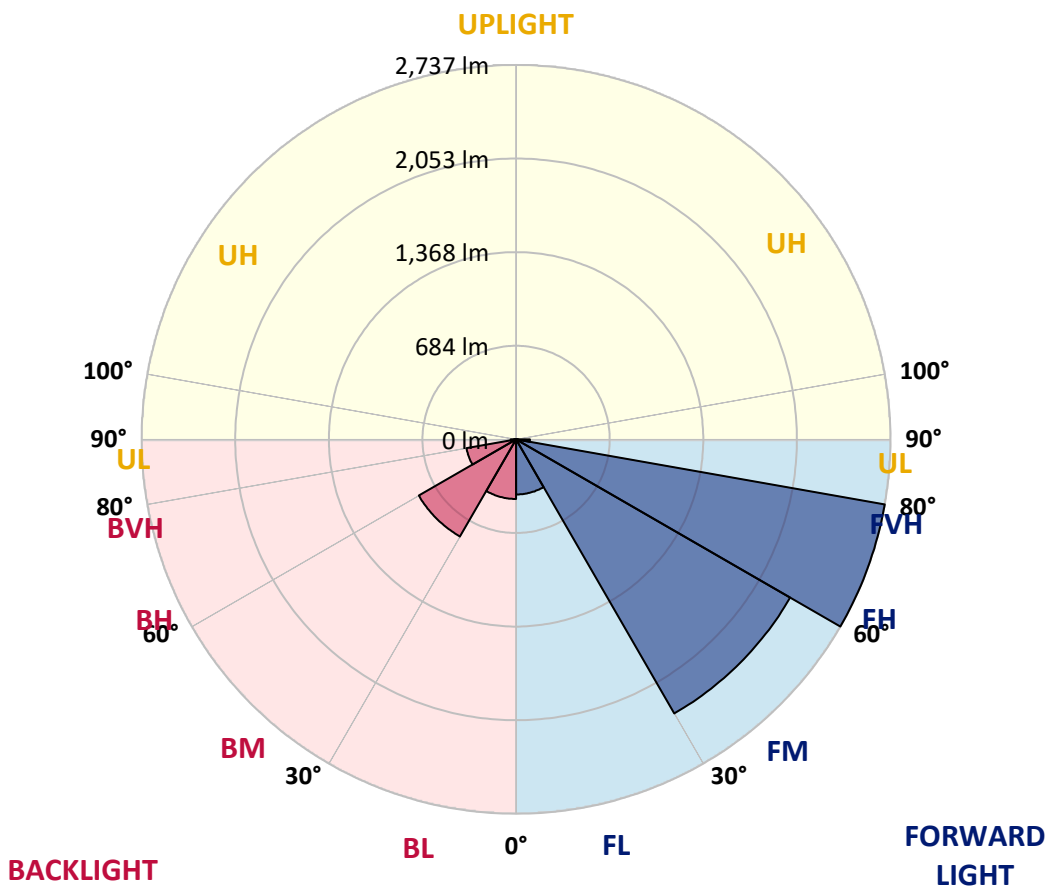
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	403.0	5.6			
FM (30°-60°)	2313.5	32.0			
FH (60°-80°)	2737.0	37.9			G2/5000
FVH (80°-90°)	101.2	1.4			G2/225
BL (0°-30°)	435.8	6.0	B1/500		
BM (30°-60°)	820.7	11.4	B1/1000		
BH (60°-80°)	367.9	5.1	B1/500		G1/500
BVH (80°-90°)	39.8	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	963.8	962.2	959.0	968.7	978.3	977.2	990.6	1003.5	1017.4	1031.9	1051.2
5°	886.7	885.6	882.9	897.4	911.9	911.3	933.3	954.2	982.6	1013.7	1052.2
7.5°	809.5	806.9	810.6	828.8	849.2	851.3	881.3	915.6	956.9	1003.5	1058.1
10°	741.5	741.0	742.6	762.9	793.5	795.6	834.2	881.9	936.5	998.7	1071.5
12.5°	723.8	722.7	718.5	728.6	751.7	754.9	797.2	855.6	922.6	1001.3	1089.8
15°	752.8	750.1	735.1	730.3	741.5	744.2	780.1	840.1	914.6	1006.2	1112.8
17.5°	802.6	801.0	772.6	752.8	760.3	762.4	789.2	837.4	912.4	1015.8	1141.2
20°	875.4	868.5	824.0	794.0	794.0	797.2	813.3	849.2	915.1	1027.6	1173.3
22.5°	971.9	958.0	895.3	854.5	843.8	848.1	855.1	878.7	926.3	1047.4	1213.5
25°	1080.1	1067.2	992.8	935.4	920.4	922.1	916.2	920.4	951.0	1074.7	1263.3
27.5°	1195.3	1186.7	1107.4	1034.6	1011.0	1011.0	990.1	979.9	985.3	1105.8	1319.1
30°	1298.2	1286.4	1219.4	1139.6	1108.5	1108.5	1068.9	1046.9	1034.0	1143.9	1393.5
32.5°	1352.3	1345.3	1300.8	1239.8	1201.7	1195.8	1161.5	1135.8	1105.8	1200.1	1494.3
35°	1423.0	1421.4	1394.6	1346.9	1298.7	1290.1	1266.6	1246.2	1194.2	1270.3	1628.2
37.5°	1511.9	1509.3	1505.0	1476.6	1418.7	1417.1	1396.2	1371.6	1304.1	1371.6	1790.5
40°	1611.6	1606.8	1601.4	1600.9	1566.0	1560.2	1558.5	1530.7	1436.4	1493.7	1959.8
42.5°	1748.7	1732.1	1681.8	1704.3	1730.0	1724.6	1745.0	1703.2	1601.4	1638.9	2120.0
45°	1917.5	1876.8	1777.1	1783.6	1848.4	1859.1	1929.8	1919.7	1783.0	1806.6	2288.8
47.5°	2018.8	1983.4	1890.7	1885.4	1966.3	1979.7	2133.4	2152.7	1978.6	2008.6	2497.2
50°	2101.8	2077.2	2001.1	2008.6	2094.3	2107.7	2335.4	2376.7	2162.9	2215.4	2739.4
52.5°	2202.0	2166.6	2107.7	2143.1	2248.1	2264.2	2559.9	2604.4	2329.0	2442.6	2990.1
55°	2258.3	2243.8	2244.9	2299.0	2430.8	2452.7	2795.1	2787.6	2481.1	2637.0	3178.7
57.5°	2387.9	2382.6	2431.8	2452.2	2644.0	2672.4	3030.3	2966.0	2619.4	2787.6	3269.3
60°	2616.7	2603.3	2646.2	2677.2	2907.6	2947.8	3292.8	3140.7	2713.1	2899.6	3238.7
62.5°	2938.1	2921.5	2923.1	2972.4	3260.7	3303.0	3584.8	3286.4	2742.1	2916.7	3045.3
65°	3337.8	3313.7	3286.4	3353.4	3729.5	3764.8	3902.5	3392.5	2672.9	2751.7	2641.3
67.5°	3759.5	3739.7	3707.5	3847.9	4336.5	4357.9	4258.8	3383.4	2453.8	2310.2	1852.7
70°	3784.1	3788.9	3941.1	4449.0	5128.9	5134.3	4595.8	3200.1	1987.2	1497.5	923.1
72.5°	3530.2	3522.1	3720.4	4558.8	5766.5	5784.7	4754.9	2592.6	1228.0	746.9	432.9
75°	2867.4	2881.4	3089.8	3988.8	4942.5	4958.5	3876.3	1528.5	583.5	365.4	277.0
77.5°	1234.4	1312.1	1723.0	2810.1	3539.8	3490.0	1997.9	619.3	311.3	260.4	212.2
80°	356.3	386.8	614.0	1336.2	2121.1	2083.6	790.8	232.0	217.0	195.6	152.2
82.5°	115.2	127.5	225.0	532.0	950.5	949.4	300.0	137.2	142.0	132.9	98.0
85°	32.1	37.0	69.1	161.3	294.1	288.2	86.8	64.8	75.5	76.6	48.8
87.5°	0.0	0.0	0.5	1.1	1.1	1.1	2.1	9.6	22.0	27.9	19.8
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°	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5	1056.5
2.5°	1063.0	1061.4	1083.3	1100.5	1116.5	1127.3	1130.5	1132.6	1136.9	1139.0	1136.9
5°	1070.5	1078.5	1114.9	1141.7	1163.2	1176.0	1176.5	1175.5	1178.7	1176.0	1174.4
7.5°	1086.5	1102.1	1148.1	1176.5	1190.5	1191.0	1178.2	1163.2	1155.6	1149.2	1147.1
10°	1108.0	1131.0	1181.4	1200.1	1195.8	1176.0	1147.6	1124.0	1110.6	1101.0	1098.9
12.5°	1137.4	1163.2	1210.8	1210.3	1183.5	1148.1	1114.9	1086.5	1067.2	1056.0	1052.2
15°	1165.3	1198.0	1232.3	1207.1	1164.8	1121.9	1079.0	1041.0	1015.3	997.6	994.4
17.5°	1199.6	1234.4	1247.8	1196.9	1141.2	1086.0	1028.7	978.8	944.0	923.1	921.5
20°	1239.2	1270.3	1255.3	1179.2	1110.6	1038.3	960.6	904.9	867.4	847.0	848.7
22.5°	1285.3	1307.8	1257.4	1155.1	1068.3	970.8	884.0	830.4	805.3	794.5	795.1
25°	1334.6	1349.1	1253.7	1122.4	1003.5	888.3	805.3	780.6	778.5	775.8	776.9
27.5°	1393.0	1389.8	1242.4	1076.4	916.2	792.4	750.1	756.5	765.1	764.0	765.1
30°	1471.2	1440.7	1228.0	1012.6	812.2	712.0	717.4	735.6	746.9	747.9	751.1
32.5°	1560.7	1496.9	1204.9	925.8	713.1	667.0	686.9	708.8	722.2	724.9	729.2
35°	1667.3	1561.2	1164.2	817.6	641.8	640.2	658.5	673.5	687.9	689.0	689.0
37.5°	1790.0	1625.5	1099.4	698.1	597.9	617.2	634.3	637.6	641.3	638.1	639.7
40°	1902.5	1687.7	1007.2	589.3	562.0	596.8	611.3	600.6	588.8	580.8	582.4
42.5°	1996.8	1730.0	885.1	513.3	525.6	578.6	589.9	567.9	544.9	529.9	532.0
45°	2102.9	1769.1	741.5	461.8	494.5	565.8	573.3	544.9	515.4	492.9	489.7
47.5°	2249.2	1848.9	614.0	425.9	472.5	558.8	571.1	532.6	494.0	460.2	456.5
50°	2429.7	1962.0	507.4	402.4	462.4	555.1	570.6	519.2	473.1	433.4	430.8
52.5°	2626.9	2072.3	428.6	384.1	452.2	543.8	567.9	504.2	451.1	408.3	405.0
55°	2758.1	2115.7	375.6	367.0	435.6	526.1	557.2	489.7	417.9	378.8	374.0
57.5°	2796.7	2060.0	338.6	351.5	414.1	501.5	536.8	459.2	397.5	366.5	362.7
60°	2730.3	1919.7	315.6	338.6	390.6	469.9	501.5	441.5	381.5	353.6	350.9
62.5°	2542.8	1703.2	297.9	325.2	366.5	436.7	479.0	420.0	363.8	341.8	338.1
65°	2165.6	1396.7	283.4	311.3	343.4	405.0	454.3	398.6	344.5	327.9	323.6
67.5°	1514.6	981.0	267.9	294.7	320.4	374.5	428.6	378.8	324.7	312.4	308.1
70°	740.4	520.2	249.1	275.4	295.7	343.4	402.9	354.7	298.4	291.5	285.6
72.5°	352.5	290.9	227.2	249.1	262.0	302.2	360.0	319.9	267.3	252.3	242.2
75°	236.3	206.8	198.2	218.1	221.3	253.4	308.6	275.9	235.7	218.6	210.0
77.5°	178.9	158.1	166.6	184.3	177.9	208.4	254.0	245.9	212.7	197.2	192.9
80°	125.9	115.2	132.3	143.0	138.2	177.3	228.8	210.6	175.2	158.1	154.8
82.5°	79.3	77.2	97.5	99.1	100.7	140.4	188.1	165.6	136.1	112.0	103.9
85°	39.6	43.9	58.4	58.4	57.9	72.3	107.2	93.2	73.4	58.4	56.8
87.5°	13.4	18.8	25.2	20.4	15.5	12.3	13.9	17.1	18.2	17.7	17.7
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)